

UNIVERSIDADE FEDERAL DA PARAÍBA
CENTRO DE TECNOLOGIA
PROGRAMA DE PÓS-GRADUAÇÃO EM ENGENHARIA DE PRODUÇÃO E
SISTEMAS

RICARDO LUKAS DE MEDEIROS FRANÇA

**HEURÍSTICAS DE PROGRAMAÇÃO MATEMÁTICA PARA O PROBLEMA DE
DIMENSIONAMENTO DE LOTES DE MÚLTIPLOS ITENS COM RESTRIÇÕES DE
CAPACIDADE E MÁQUINAS PARALELAS DISTINTAS**

JOÃO PESSOA

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RESUMO

Os problemas de dimensionamento de lotes estão entre os mais relevantes na literatura de planejamento da produção. Este trabalho aborda o Problema de Dimensionamento de Lotes com Múltiplos Itens e Máquinas Paralelas Distintas (CLSP-PM), classificado como NP-difícil e cujo objetivo é determinar um plano ótimo que atenda às demandas periódicas, sem exceder a capacidade das máquinas e minimizando o custo total. Este trabalho propõe a resolução do problema através de métodos heurísticos combinados de três diferentes formas: (i) Aplica-se o *Relax-and-Fix* para gerar uma solução inicial e o *Fix-and-Optimize* como busca local, nas versões estática e dinâmica. (ii) Em seguida, utiliza-se uma Heurística Baseada em Geração de Colunas (HCG) como construtiva, combinada ao *Fix-and-Optimize*, comparando a resolução do *pricing* via Programação Dinâmica (PD) e Programação Inteira Mista (MIP). (iii) Depois o HCG foi estendido com heurística de transferência de produção (TH) para viabilização das soluções, mantendo as comparações entre PD e MIP, onde para cada usa-se as versões estática e dinâmica do *Fix-and-Optimize*. Os experimentos em 2.880 instâncias de referência mostram que, principalmente, a combinação HCG com PD, TH e *Fix-and-Optimize* dinâmico obteve *gaps* próximos de zero em diversas classes. Dessa forma, superam métodos da literatura em qualidade de solução, alcançando *gaps* médios de 0,51% para a versão estática e 0,42% para a dinâmica, com tempos competitivos.

Palavras-chave: Dimensionamento de Lotes, Geração de Colunas, *Relax-and-Fix*, *Fix-and-Optimize*, Heurísticas, Otimização.

ABSTRACT

Lot-sizing problems are among the most relevant in the production planning literature. This work addresses the Multi-Item Capacitated Lot-Sizing Problem with Unrelated Parallel Machines (CLSP-PM), classified as NP-hard and aiming to determine an optimal production plan that meets periodic demands without exceeding machine capacities while minimizing total costs. The problem is tackled through heuristic methods combined in three different ways: (i) *Relax-and-Fix* is applied to generate an initial solution, followed by *Fix-and-Optimize* as a local search procedure, in both static and dynamic versions. (ii) A Column Generation-Based Heuristic (HCG) is then used as a constructive method, combined with *Fix-and-Optimize*, comparing the resolution of the *pricing* problem via Dynamic Programming (DP) and Mixed Integer Programming (MIP). (iii) The HCG is further extended with a production transfer heuristic (TH) to ensure solution feasibility, maintaining the comparisons between DP and MIP, and using both static and dynamic versions of *Fix-and-Optimize* for each case. Experiments on 2,880 benchmark instances show that, in particular, the combination of HCG with DP, TH, and dynamic *Fix-and-Optimize* achieved near-zero gaps in several instance classes. These results outperform literature methods in solution quality, reaching average gaps of 0.51% for the static version and 0.42% for the dynamic version, with competitive computing times.

Keywords: Lot-sizing, Column Generation, Relax-and-Fix, Fix-and-Optimize, Heuristics, Optimization.

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LISTA DE ABREVIACES

CLSP	Problema de Dimensionamento de Lotes com Mltiplos Itens e restries de Capacidade - <i>Capacitated Lot-sizing Problem</i>
CLSP-PM	Problema de Dimensionamento de Lotes com Mltiplos Itens e Restries de Capacidade em Mquinas Paralelas
LEC	Lote Econmico de Compra
FO	Heurstica <i>Fix-and-Optimize</i>
GC	Gerao de Colunas
GFLOPS	<i>Giga floating point operations per second</i>
LI	Limite Inferior
LP	Heurstica baseada em Programaco Linear
LS	Limite Superior
LSP	Problema de Dimensionamento de Lotes de Produo - <i>Lot-sizing Problem</i>
MILP	Programaco Inteira Linear Mista - <i>Mixed Integer Linear Programming</i>
MIP	Programaco Inteira Mista – <i>Mixed Integer Programming</i>
MRP	Planejamento de Recursos da Manufatura - <i>Material Resource Planning</i>
PCP	Planejamento e Controle da Produo
PDL	Problema de Dimensionamento de Lotes
PI	Programaco Inteira
PL	Programaco Linear
PMR	Problema Mestre Restrito
RF	Heurstica <i>Relax-and-Fix</i>
SP	Subproblema de <i>Pricing</i>
TH	Heurstica de Transferncia de Produo
ULSP	Problema de Dimensionamento de Lotes de um nico Item sem Capacidade - <i>Uncapacitated Lot-sizing Problem</i>

1 INTRODUÇÃO

1.1 DEFINIÇÃO DO TEMA

No setor industrial, o gerenciamento das atividades envolvidas na transformação de matérias-primas em produtos acabados é, em sua maioria, responsabilidade do Planejamento e Controle da Produção (PCP). Seu principal objetivo é garantir a coordenação eficiente de todo o processo produtivo, desde a aquisição dos materiais até as etapas de entrega do produto final.

De acordo com Anthony (1965), a estrutura hierárquica do PCP é composta por três níveis distintos: estratégico, tático e operacional, como ilustrada na Figura 1.1.

- **Nível Estratégico:** Representa o mais alto nível da hierarquia, responsável pelas decisões relacionadas às políticas organizacionais, metas globais e fatores voltados ao alcance dos objetivos de longo prazo.
- **Nível Tático:** Atua como elo entre as decisões estratégicas e a execução operacional. Está focado no cumprimento das metas estabelecidas no nível estratégico, por meio de decisões sobre o uso de recursos, planejamento da produção, políticas de estoque e estratégias de distribuição em um horizonte de médio prazo.
- **Nível Operacional:** Localizado no nível mais baixo da hierarquia, está diretamente envolvido com o ambiente produtivo diário. É responsável por objetivos de curto prazo, acompanhando as atividades rotineiras que contribuem para o cumprimento das metas produtivas.

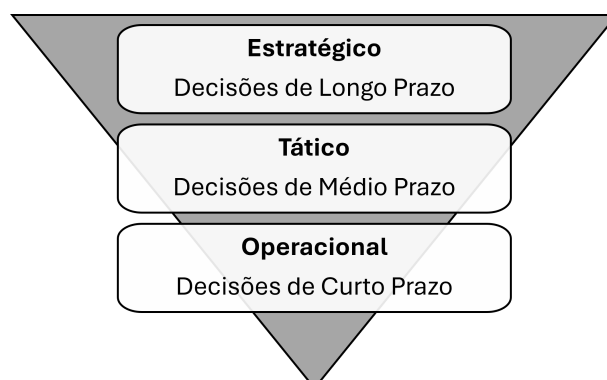


Figura 1.1: Níveis do PCP
Fonte: Adaptado de Bahl et al (1987).

No nível tático do PCP, insere-se o Problema de Dimensionamento de Lotes (do inglês *Lot-Sizing Problem* - LSP), que considera a disponibilidade de recursos no setor produtivo para determinar o plano operacional ao longo de um horizonte de tempo de médio prazo.

A primeira formalização de um LSP foi desenvolvida por Harris (1913), com o objetivo de definir o chamado Lote Econômico de Compra (LEC) para um único item com demandas estacionárias, em um horizonte de planejamento contínuo e infinito. Com o passar do tempo, novas variantes foram propostas para tratar situações mais próximas da realidade, como nos trabalhos de Wagner e Whitin (1958) e Manne (1958). Ambos consideram um horizonte de planejamento discreto e finito, com demandas dinâmicas.

Enquanto o modelo de Wagner e Whitin (1958) trata do dimensionamento de lotes para um único item sem restrições de capacidade, conhecido como *Uncapacitated Lot-Sizing Problem* (ULSP), o modelo de Manne (1958) incorpora restrições de capacidade para atender à demanda de múltiplos itens, sendo denominado *Capacitated Lot-Sizing Problem* (CLSP).

Ao longo do tempo, diversas outras variantes foram desenvolvidas, incorporando características que tornam o problema progressivamente mais complexo. Diante da grande variedade de formulações propostas, Karimi et al (2003) apresenta uma sistematização das principais características encontradas nos LSPs, oferecendo uma visão abrangente sobre a complexidade do problema. Diversas características tornam o LSP mais ou menos complexo, dependendo da forma como são modeladas.

A seguir, são apresentadas algumas das principais classificações conforme discutido por Karimi et al (2003):

- **Horizonte de Planejamento:** Refere-se ao intervalo de tempo para o qual o plano de produção é definido. Pode ser finito ou infinito. Em horizontes finitos, é comum considerar demandas dinâmicas, enquanto horizontes infinitos geralmente assumem demanda estacionária.
- **Número de Níveis:** Os sistemas produtivos podem ser classificados como de nível único ou multinível. Em sistemas de nível único, o produto final é obtido diretamente a partir da matéria-prima, geralmente por meio de uma única operação. Já em sistemas multiníveis, a estrutura do produto envolve várias etapas de transformação, podendo ocorrer em série, montagem, desmontagem ou seguindo a lógica de um planejamento de necessidades de materiais (MRP).
- **Número de Produtos:** Refere-se à quantidade de itens considerados no problema. Problemas com múltiplos itens apresentam maior complexidade em comparação aos problemas

com item único.

- **Restrições de Capacidade (Recursos):** Envolvem limitações na disponibilidade de recursos como mão de obra, equipamentos, máquinas, orçamento, entre outros. Quando não há restrições, o problema é classificado como não capacitado; caso contrário, é capacitado. A presença de restrições de capacidade aumenta significativamente a complexidade do problema.
- **Deterioração dos Itens:** Em situações em que os itens são perecíveis, há um tempo limite para sua permanência em estoque, após o qual são considerados obsoletos.
- **Demanda:** Um dos principais dados de entrada do problema. Pode ser classificada como estacionária (constante no tempo) ou dinâmica (variável ao longo do tempo); determinística (valores conhecidos) ou probabilística (com base em distribuições de probabilidade); e ainda como independente (o item não depende de outro) ou dependente (quando faz parte da composição de outro item). Demandas dinâmicas, dependentes e/ou probabilísticas tornam o problema mais desafiador do que demandas estáticas, independentes e determinísticas.
- **Estrutura de Setup:** A estrutura de *setup* pode ser simples, quando não depende da sequência de produção dos itens, ou complexa, quando o custo e/ou o tempo de *setup* dependem da sequência de produção. A estrutura complexa pode ser subdividida em três categorias: (i) quando é possível continuar a produção no período seguinte sem novo *setup* (*setup carry-over*); (ii) quando mudanças entre produtos da mesma família exigem um *setup* simplificado, com menor custo e tempo; e (iii) quando essas mudanças dependem da sequência de produção mesmo dentro da mesma família.
- **Escassez de Estoque:** Em alguns casos, é permitida a ocorrência de faltas no atendimento da demanda, em que a demanda do período atual em períodos futuros (*backlogging*), ou que a demanda não seja atendida (caso de vendas perdidas)

O LSP estudado neste trabalho é o **Problema de Dimensionamento de Lotes com Múltiplos Itens e Restrições de Capacidade em Máquinas Paralelas Distintas** (*Multi-Item Capacitated Lot-sizing Problem with Unrelated Parallel Machines* - CLSP-PM). Esse problema possui as seguintes características: horizonte de planejamento finito e discreto; sistema de nível único; múltiplos produtos; múltiplas máquinas com restrições de capacidade específicas por máquina; ausência de deterioração dos itens; demandas dinâmicas, determinísticas e independentes; estrutura de *setup* simples; e exigência de atendimento da demanda sem atrasos.

Ao longo dos anos, esta e outras variantes do problema foram amplamente estudadas.

Nesses estudos, diversos métodos foram propostos, tais como método exatos com os algoritmos de *branch-and-bound* (Land e Doig, 1960), *branch-and-cut* (Padberg e Rinaldi, 1991), relaxação Lagrangiana (Trigeiro et al, 1989), algoritmos baseados em Geração de Colunas (GC), entre outros. Paralelamente, métodos heurísticos também foram aplicados, como as abordagens *relax-and-fix* (Wolsey, 1998) e *fix-and-optimize* (Pochet e Wolsey, 2006), que são capazes de obter resultados satisfatórios com menor esforço computacional.

Neste trabalho propõe-se abordar o CLSP-PM por meio de heurísticas de Programação Matemática. Para a construção de soluções viáveis são propostas (i) uma heurística *relax-and-fix* baseada na formulação compacta do problema; e (ii) uma heurística de *diving* baseada na reformulação do problema utilizando a Decomposição de Dantzig e Wolfe (1960) combinada com estratégias de viabilização. (iii) Como busca local, são propostas duas variações da heurística *fix-and-optimize*.

A eficiência das abordagens propostas será avaliada por meio de experimentos computacionais, utilizando um conjunto de instâncias apresentado por Toledo (1998). Os resultados obtidos serão comparados com aqueles reportados na literatura, de modo a verificar a qualidade e o desempenho computacional dos métodos desenvolvidos.

1.2 JUSTIFICATIVA

O CLSP-PM se apresenta como um problema recorrente no setor industrial, uma vez que diversas empresas operam em ambientes produtivos compostos por máquinas paralelas com especificações distintas. Essas máquinas são capazes de fabricar uma variedade de produtos, com o objetivo de atender às demandas dos clientes ao mesmo tempo em que se busca a minimização dos custos operacionais. Na literatura, o problema foi inicialmente abordado no trabalho de Sabbag Neto (1993).

O desenvolvimento de métodos de resolução eficientes pode representar uma vantagem competitiva para as organizações, pois, além de contribuírem para a redução dos custos operacionais, promovem maior agilidade nos processos de planejamento da produção. Diversos algoritmos já foram explorados na literatura, e as heurísticas vêm se destacando como técnicas fundamentais na resolução de problemas altamente complexos, como os classificados na classe NP-difícil, à qual pertence o CLSP-PM (Florian et al, 1980).

Nesse contexto, o estudo de algoritmos de solução para o CLSP-PM se justifica pelo seu potencial de aplicação prática em cenários reais, além da possibilidade de integração em ferramentas de apoio à decisão utilizadas por organizações industriais. Na literatura, encontram-se

diferentes abordagens propostas para resolver o problema. Em Toledo (1998), é apresentada uma combinação de programação dinâmica, relaxação Lagrangiana e *branch-and-bound*. Posteriormente, Toledo e Armentano (2006) propuseram uma abordagem baseada exclusivamente em relaxação Lagrangiana. A heurística Lagrangiana também é explorada no trabalho de Fiorotto e de Araujo (2014), enquanto Fiorotto et al (2015) combinaram essa abordagem com a DWD. Em Wu et al (2018), os autores apresentam um algoritmo de *branch-and-bound* no qual as variáveis de *branching* são selecionadas por meio de um método analítico. Mais recentemente, Vincent et al (2020) propuseram uma meta-heurística populacional, e Apolinário (2020) investigaram a combinação das heurísticas *relax-and-fix* e *fix-and-optimize* para obtenção de soluções viáveis para o CLSP-PM.

Diante desse cenário, este trabalho propõe a aplicação de diferentes estratégias heurísticas para o CLSP-PM. A primeira utiliza o *relax-and-fix* como heurística construtiva e as variantes do *fix-and-optimize* (*F&O* e *F&O dinâmico*) como estratégias de busca local para melhorar essa solução. Na segunda estratégia, busca-se aplicar uma heurística de *diving* baseada em GC (HCG) combinada com heurísticas de viabilização como heurística construtiva e também com as variantes do *F&O*. Dessa forma, busca-se encontrar soluções de alta qualidade para o CLSP-PM em tempos computacionais razoáveis. Para avaliar a eficiência das abordagens propostas, serão conduzidos experimentos computacionais utilizando um conjunto de 2.880 instâncias do CLSP-PM, cujos resultados serão comparados com os de outras abordagens disponíveis na literatura.

1.3 OBJETIVOS

Nesta seção, são apresentados os objetivos deste trabalho, divididos em objetivo geral e objetivos específicos.

1.3.1 OBJETIVO GERAL

Desenvolver heurísticas baseadas em Programação Matemática para a resolução do Problema de Dimensionamento de Lotes com Múltiplos Itens e Máquinas Paralelas Distintas.

1.3.2 OBJETIVOS ESPECÍFICOS

Este trabalho tem como objetivos específicos:

- Apresentar uma formulação matemática para o problema CLSP-PM;
- Reformular o CLSP-PM utilizando a Decomposição de Dantzig-Wolfe;

- Desenvolver uma heurística do tipo *diving* baseada em Geração de Colunas;
- Implementar heurísticas de viabilização;
- Implementar a heurística construtiva *Relax-and-Fix* para o CLSP-PM;
- Implementar heurísticas *Fix-and-Optimize* nas versões estática e dinâmica, como procedimentos de busca local;
- Realizar experimentos computacionais para avaliar o desempenho das abordagens propostas;
- Comparar os resultados obtidos com aqueles encontrados na literatura.

1.4 ESTRUTURA DO TRABALHO

Esse trabalho é estruturado da seguinte forma: o Capítulo 1 apresenta a introdução, objetivos e justificativas do trabalho. No Capítulo 2 é feita uma breve revisão da literatura a respeito do LSP, e dos trabalhos relacionados e suas abordagens na resolução utilizadas ao longo dos anos no CLSP-PM. No Capítulo 3 o CLSP-PM é definido matematicamente, bem como os aspectos metodológicos neste trabalho, como a reformulação do problema pela Decomposição de Dantzig-Wolfe e os seus problemas de *pricing*, além dos algoritmos de Programação Dinâmica e Geração de Colunas. Já no Capítulo 4 são definidas as heurísticas propostas para o CLSP-PM: as heurísticas construtivas *Relax-and-Fix*, a heurística de *diving* baseada em Geração de Colunas e as heurísticas de viabilização baseadas em transferência de produção. Ao final do capítulo são detalhadas as variantes da heurística de busca local *Fix-and-Optimize*. Finalmente, tem-se os resultados no Capítulo 5 e as conclusões comparando os resultados aos resultados disponíveis na literatura.

2 REVISÃO DA LITERATURA

Esse capítulo apresenta uma revisão da literatura sobre trabalhos relacionados ao LSP. Inicialmente, são discutidas as formulações clássicas e o desenvolvimento histórico do tema, desde os primeiros modelos com um único item até versões mais complexas que incorporam múltiplos itens, restrições de capacidade e máquinas paralelas. Em seguida, o foco recai sobre o CLSP-PM, destacando contribuições relevantes que exploram diferentes técnicas de modelagem e resolução. Também são apresentadas as heurísticas baseadas em programação matemática, que incluem os métodos *Relax-and-Fix* e *Fix-and-Optimize*, bem como as contribuições da Decomposição de Dantzig–Wolfe aplicadas ao LSP. E então, são discutidas as heurísticas de arredondamento. Por fim, a revisão estabelece o contexto necessário para a lacuna que busca ser preenchida com o desenvolvimento das abordagens propostas nesse trabalho.

2.1 PROBLEMAS DE DIMENSIONAMENTO DE LOTES

O primeiro autor conhecido da literatura a tratar dos problemas de dimensionamento de lotes (LSPs - Lot-Sizing Problems) foi Harris (1913). Em seu trabalho, definiu o conceito conhecido como Lote Econômico de Compra (do inglês *Economic Order Quantity* - EOQ) para um único item com demanda constante, tempo contínuo e horizonte de planejamento infinito. O EOQ representa a quantidade ótima a ser adquirida, de modo a minimizar os custos totais de pedido e de estoque.

Posteriormente, Wagner e Whitin (1958) propuseram o estudo do Problema de Dimensionamento de Lotes sem Capacidade (do inglês *Uncapacitated Lot-Sizing Problem* - ULSP), uma variante do EOQ que considera demandas dinâmicas em um horizonte de planejamento finito e dividido em períodos discretos. Os autores também propuseram um algoritmo de programação dinâmica para resolver o ULSP, posteriormente aprimorado por Evans (1985).

O ULSP deu origem a uma série de estudos que incorporaram características adicionais, como múltiplos produtos e níveis, restrições de capacidade, deterioração de itens, estruturas de preparação (*setup*), demandas dinâmicas e faltas de estoque, entre outros. Para uma sistematização mais abrangente dessas características, recomenda-se a leitura de Karimi et al (2003), que organiza diversos aspectos dos LSPs e fornece uma compreensão ampla de sua complexidade.

O Problema de Dimensionamento de Lotes com Capacidade (do inglês *Capacitated Lot-Sizing Problem* - CLSP) é uma extensão do ULSP que considera restrições de capacidade produtiva e múltiplos itens. Manne (1958) introduziu o CLSP na literatura e apresentou uma formulação matemática com número exponencial de variáveis. Essa formulação foi amplamente adotada como base para algoritmos de Geração de Colunas (GC) aplicados a problemas com restrições de capacidade.

O CLSP tem sido amplamente estudado, com diversas abordagens propostas para sua resolução, incluindo formulações baseadas em fluxo em redes (Eppen e Martin, 1987), métodos de relaxação lagrangiana (Trigeiro et al, 1989), heurísticas (Maes e Van Wassenhove, 1988), algoritmos baseados em GC (Degraeve e Jans, 2007) e métodos de *branch-and-cut* (Belvaux e Wolsey, 2000), entre outros.

Uma extensão bastante estudada do CLSP considera múltiplas máquinas paralelas disponíveis para a produção. O primeiro trabalho na literatura a abordar LSPs nesse contexto foi o de Lasdon e Terjung (1971), que propuseram um modelo com sequenciamento de produção, resolvido por meio de GC. Em vez de utilizarem a tradicional *Decomposição de Dantzig-Wolfe* (DWD) (Dantzig e Wolfe, 1960), os autores aplicaram o método de *Generalized Upper-Bounding* (GUB) de Dantzig e Van Slyke (1967) para lidar de forma mais eficiente com a multiplicidade de restrições.

Carreno (1990) estudou o Problema Econômico de Dimensionamento e Sequenciamento de Lotes (do inglês *Economic Lot-Sizing and Scheduling Problem* - ELSP), com máquinas paralelas, horizonte de planejamento infinito e tempos de preparação. O problema foi resolvido por meio de uma heurística baseada no conceito de Ciclo Comum (do inglês *Common Cycle*), proposto por Hanssmann (1962), que decompõe o problema em dois subproblemas: um de alocação e outro de dimensionamento/sequenciamento. Eles são resolvidos alternadamente, mantendo a solução de um deles fixa enquanto o outro é aprimorado.

Conforme mencionado no Capítulo 1, esse estudo foca no CLSP-PM, uma variante do CLSP que envolve máquinas paralelas não relacionadas, com restrições de capacidade e tempos de preparação, sendo que cada máquina é capaz de produzir todos os itens. Florian et al (1980) demonstraram que o CLSP já é um problema NP-difícil mesmo no caso de um único item e sem considerar tempos de *setup*. Posteriormente, ao incluir esses tempos, Maes et al (1991) mostraram que a simples verificação da existência de uma solução viável para o CLSP com um único item torna-se um problema NP-completo. Como o CLSP é um caso particular do CLSP-PM, infere-se que o CLSP-PM também pertence à classe dos problemas NP-difíceis. Por

esse motivo, tanto o CLSP quanto o CLSP-PM têm sido abordados na literatura por meio de heurísticas, que visam obter soluções de boa qualidade com menor esforço computacional em comparação aos métodos exatos.

2.2 PROBLEMA DE DIMENSIONAMENTO DE LOTES COM MÚLTIPLOS ITENS E RESTRIÇÕES DE CAPACIDADE EM MÁQUINAS PARALELAS DISTINTAS

O CLSP-PM foi inicialmente apresentado na dissertação de mestrado de Sabbag Neto (1993), que propôs uma heurística em três etapas para resolver o problema. Na primeira etapa de seu método, soluções aproximadas são geradas por meio de duas técnicas de relaxação. A primeira técnica envolve a adaptação do algoritmo clássico de programação dinâmica de Wagner e Whitin (1958) para acomodar múltiplas máquinas. Embora essa abordagem possa fornecer soluções iniciais eficazes, ela pode levar à violação das restrições de capacidade, resultando em sobrecarga de máquinas em determinados períodos. A segunda técnica utiliza a relaxação das restrições de integralidade das variáveis de produção e preparação por meio da Programação Linear. Essa abordagem frequentemente gera soluções inviáveis, mas que podem servir como base para refinamentos posteriores.

A segunda etapa do método aplica um procedimento de viabilização para reparar essas soluções. Esse procedimento é dividido em etapas progressiva e regressiva. Durante essas etapas, a alocação da produção de uma determinada máquina é transferida para outras máquinas, seja entre diferentes períodos ou dentro de um mesmo período. Na etapa final, os custos são minimizados por meio da movimentação da produção ao longo dos períodos, buscando reduzir ou até eliminar os custos de estoque.

Toledo (1998) estendeu a propriedade introduzida por Wagner e Whitin (1958), originalmente formulada para o ULSP, para o problema de dimensionamento de lotes com um único item e múltiplas máquinas paralelas não relacionadas (ULSP-PM). Um algoritmo de programação dinâmica recursiva progressiva foi aplicado ao longo do tempo, por meio de uma reformulação do problema original equivalente a um problema de fluxo de custo mínimo, em que cada nó da rede representa um período específico. Além disso, o problema também foi resolvido por meio de um algoritmo que estende o proposto por Wagelmans et al (1992), que corresponde a um algoritmo de programação dinâmica recursiva regressiva, onde certos períodos de tempo (chamados de pontos eficientes) são considerados candidatos à solução ótima.

Toledo (1998) também propôs dois algoritmos de *B&B* para o CLSP-PM. O primeiro método de *B&B* utilizou limites inferiores obtidos via relaxação Lagrangiana, com a função

dual sendo otimizada por um método do subgradiente. A relaxação Lagrangiana foi obtida ao relaxar as restrições de capacidade, permitindo que o problema original fosse decomposto em subproblemas por item, sem restrições de capacidade. Esses subproblemas puderam então ser resolvidos por algoritmos de programação dinâmica. O segundo método de *B&B* baseou-se em relaxações lineares.

Além disso, Toledo (1998) também propôs modificações na heurística de Sabbag Neto (1993) nas etapas de solução inicial e de viabilização. A solução inicial foi obtida por meio de programação dinâmica recursiva progressiva com restrições de capacidade relaxadas ou via relaxação Lagrangiana. Durante a etapa de viabilização, as possibilidades de movimentação de itens produzidos entre períodos e/ou máquinas foram ajustadas para as fases progressiva e regressiva. Além disso, o trabalho explorou combinações de heurísticas Lagrangianas e métodos de subgradiente com base em Held et al (1974) e Camerini et al (1975).

Toledo e Armentano (2006) propuseram um método heurístico baseado na relaxação Lagrangiana das restrições de capacidade para resolução do CLSP-PM. O método incorporou uma heurística do subgradiente composta por um procedimento de viabilização seguido de um procedimento de melhoria. Ambos os procedimentos foram baseados na movimentação de produção entre máquinas e/ou períodos para construir uma solução viável para o problema Lagrangiano. Esses procedimentos foram aplicados a cada iteração do método do subgradiente. Além disso, esse trabalho forneceu um amplo conjunto de instâncias aleatórias, incluindo casos de pequeno e grande porte.

Fiorotto e de Araujo (2014) abordaram o CLSP-PM por meio da proposição de uma reformulação baseada em caminhos mínimos. Essa nova reformulação envolveu uma decomposição por período e por máquina, que foi utilizada para gerar limites inferiores e superiores para o CLSP-PM. Os autores desenvolveram uma heurística Lagrangiana e uma heurística baseada na realocação da produção. A heurística Lagrangiana consistiu na relaxação das restrições de demanda, resultando em subproblemas por período e por máquina. Esses subproblemas foram resolvidos por meio de uma adaptação do método de *B&B* proposto por Jans e Degraeve (2004). Sempre que um novo limite inferior era obtido, uma heurística de viabilização era aplicada com o objetivo de gerar soluções viáveis que atendessem às restrições de demanda, produzindo assim limites superiores para o problema.

A heurística de realocação de produção foi composta por três etapas: retroativa, progressiva e de realocação de capacidade. Na etapa retroativa, a heurística verificava se havia produção excedente em relação à demanda de cada item e removia esse excesso, começando do

último período e retrocedendo. Na etapa progressiva, o algoritmo percorria os períodos do início ao fim, verificando se as demandas estavam sendo atendidas. Caso contrário, tentava viabilizar a produção, avaliando se a quantidade necessária poderia ser produzida com o *setup* já configurado. Caso não fosse possível, novos *setups* eram ativados. Na etapa final, a heurística buscava realocar a capacidade com base em informações obtidas a partir de soluções viáveis anteriores.

Fiorotto et al (2015) deu continuidade ao trabalho de Fiorotto e de Araujo (2014), propondo uma abordagem híbrida que combina a Relaxação Lagrangiana com a Decomposição de Dantzig-Wolfe (DWD) para obtenção de limites inferiores e superiores para o CLSP-PM. A abordagem híbrida foi implementada juntamente com uma heurística de viabilização baseada em realocação de produção, visando gerar soluções viáveis. Como as soluções obtidas pela heurística geralmente não eram ótimas, foi incorporada uma etapa de melhoria. Nessa etapa, verificava-se se seria possível obter quantidades de produção menos onerosas mantendo a configuração de *setup* previamente estabelecida. Para isso, as variáveis de *setup* eram fixadas, e o restante do problema foi resolvido por meio de um solver comercial, de modo a determinar as quantidades de produção ótimas.

Por sua vez, Wu et al (2018) apresentaram três formulações matemáticas para uma generalização do CLSP-PM, na qual o número de máquinas permitido para fabricar um item em um determinado período é limitado. Os autores também propuseram decomposições do tipo Dantzig-Wolfe e um algoritmo de GC. Em seu trabalho, são utilizadas informações provenientes da relaxação linear das formulações, das soluções dos subproblemas de precificação no algoritmo de GC, e das soluções de versões não capacitadas do problema, a fim de estimar a probabilidade de uma variável de *setup* assumir valor 1 em uma solução ótima. Essa estimativa é utilizada em um esquema proposto de *analytics branching* e seleção de variáveis, no qual um subconjunto das variáveis de *setup* é fixado, resultando em subproblemas de resolução mais simples.

Já no trabalho de Vincent et al (2020), o problema CLSP-PM foi tratado por meio de uma abordagem meta-heurística baseada em população. O método proposto foi estruturado em duas etapas. Na primeira, heurísticas construtivas dinâmicas foram empregadas para gerar uma população inicial de soluções. Na segunda etapa, as trajetórias das soluções existentes foram combinadas em um procedimento de diversificação, permitindo a exploração do espaço de soluções. Para aprimorar ainda mais as soluções, foi aplicado um procedimento de busca local a uma versão relaxada do problema (sem as restrições de capacidade), seguido por um método de correção.

2.3 HEURÍSTICAS BASEADAS EM PROGRAMAÇÃO MATEMÁTICA

Métodos heurísticos que utilizam formulações de Programação Matemática têm demonstrado resultados promissores em um variado campo de aplicações, como roteamento de veículos, gerenciamento de energia e dimensionamento de equipes de trabalho, dentre os quais há trabalhos como os de Archetti e Speranza (2014), Della Croce e Salassa (2014), Fischetti et al (2015), Valeva et al (2017). Entre essas abordagens, destacam-se os métodos baseados em MILP *R&F* e o *F&O*. Ambos são frequentemente utilizados como componentes para a estrutura de heurísticas para problemas de dimensionamento de lotes.

O *R&F* decompõe o problema original em uma sequência de subproblemas menores, os quais são mais simples de resolver. Cada iteração do método resolve um subproblema de forma independente, e as variáveis inteiras são progressivamente fixadas com base nas soluções anteriores. O método *F&O* por sua vez, opera a partir de uma solução viável e, de forma semelhante, resolve subproblemas menores. Por meio de uma estratégia de busca local, ele resolve seus subproblemas, de modo que parte das variáveis permanece fixada, permitindo a otimização parcial da solução atual. Quando uma solução melhor é identificada, a melhoria é salva, substituindo a melhor solução anterior.

Essas abordagens vêm sendo aplicadas com sucesso em diferentes variantes do problema de dimensionamento de lotes. Federgruen e Tzur (1999) utilizaram o *Relax-and-Fix* para tratar problemas com um depósito, múltiplos itens e múltiplos varejistas. Stadtler (2003) desenvolveu um algoritmo voltado para o problema de múltiplos níveis com restrições de capacidade e tempos de *setup*. Posteriormente, Federgruen et al (2007) estenderam a abordagem ao caso com múltiplos itens e capacidade limitada. Outros exemplos relevantes incluem o trabalho de Akarunali e Miller (2009), que aplicaram o método a problemas de produção com grandes intervalos e múltiplos níveis, e o estudo de Melo e Ribeiro (2017), no qual a abordagem foi empregada com sucesso em instâncias com limites de estoque.

No que se refere ao *Fix-and-Optimize*, Sahling et al (2009) trataram um modelo multi-nível com transporte de *setup* entre períodos, enquanto Helber e Sahling (2010) propuseram uma versão alternativa da técnica para o mesmo tipo de problema. Uma proposta híbrida foi apresentada por Toledo et al (2015), que combinou as duas estratégias para resolver um problema capacitado com *backlogging* e outro de produção em duas etapas.

No que diz respeito à aplicação da heurística *Fix-and-Optimize* para problemas de dimensionamento de lotes, alguns outros trabalhos da literatura exploraram essa abordagem. Autores

como Lang e Shen (2011), Chen (2015), Cunha et al (2019), Fiorotto et al (2020) têm contribuído significativamente para esse campo.

2.4 DECOMPOSIÇÃO DE DANTZIG-WOLFE PARA LSP

Outro conjunto de técnicas relevantes envolve a Decomposição de Dantzig-Wolfe (Dantzig e Wolfe, 1960), que serve de base para métodos de geração de colunas aplicados ao LSP com múltiplos itens. Degraeve e Jans (2007) propuseram uma reformulação de Dantzig-Wolfe combinada com um algoritmo de *Branch-and-Price*, enquanto Pimentel et al (2010) investigaram diferentes estratégias de decomposição para o mesmo problema. Já Caserta e Voß (2021) propuseram uma meta-heurística baseada em geração de colunas, e De Araujo et al (2015) combinaram essa técnica com relaxação Lagrangiana em uma abordagem híbrida. Por fim, em França e Kramer (2023) foi utilizada uma heurística baseada em geração de colunas com arredondamento e *F&O* para o CLSP-PM.

2.5 HEURÍSTICAS DE ARREDONDAMENTO

Em contraste com os métodos exatos, os métodos heurísticos são algoritmos capazes de obter resultados satisfatórios com menor esforço computacional. O procedimento heurístico de arredondamento consiste, inicialmente, na obtenção de uma solução onde os valores mais próximos de um número inteiro são considerados para o arredondamento. Em seguida, um processo iterativo de retroalimentação é aplicado para refinar os valores e alcançar um resultado mais adequado.

Aplicações bem-sucedidas de heurísticas de arredondamento são observadas em diversos estudos, incluindo o trabalho de Dobson (1982), que trata da obtenção de soluções para problemas de programação inteira com dados não negativos. Essas heurísticas têm sido empregadas em problemas de corte de estoque e em diversas outras áreas, como roteamento de veículos, dimensionamento de lotes e localização de instalações, conforme demonstrado em trabalhos como Belov e Scheithauer (2002), Ceselli et al (2007), Perrot (2005), Degraeve e Jans (2007), Joncour et al (2010), Leao et al (2017), Sadykov et al (2019) e Cunha et al (2019).

2.6 CONSIDERAÇÕES DA REVISÃO DA LITERATURA

A revisão apresentada evidencia a ampla variedade de técnicas desenvolvidas para o CLSP-PM, com destaque para métodos de relaxação, heurísticas lagrangianas, abordagens de

decomposição e heurísticas de arredondamento. Apesar dos avanços, observa-se uma lacuna relacionada à exploração de heurísticas de programação matemática que integrem diferentes estratégias em uma única estrutura. Esse trabalho busca preencher essa lacuna ao propor uma abordagem que combina uma heurística de *diving* baseada em Geração de Colunas combinada com Programação Dinâmica para obtenção de soluções iniciais, além da heurística *Fix-and-Optimize* aplicada como busca local para otimização das soluções. Essa combinação busca contribuir com o leque de estratégias para abordar o CLSP-PM, sendo assim a principal contribuição desta pesquisa.

3 DEFINIÇÃO DO PROBLEMA

Nesse capítulo, o problema base para esse trabalho é apresentado, o CLSP-PM. Além disso, é explanada a aplicação da técnica de DWD sobre a formulação descrita na Seção 3.2, com o objetivo de obter uma reformulação com número exponencial de variáveis, cuja relaxação linear é resolvida por meio de um algoritmo de GC.

3.1 FORMULAÇÃO COMPACTA

O CLSP-PM consiste em determinar quanto será produzido de cada um dos n itens de um conjunto $I = \{1, \dots, n\}$ ao longo de um horizonte de planejamento, denotado por um conjunto de m períodos $T = \{1, \dots, m\}$, utilizando um conjunto $K = \{1, \dots, r\}$ de r máquinas distintas. As demandas em cada período devem ser atendidas sem atrasos, e as capacidades das máquinas não podem ser ultrapassadas.

São dados de entrada do problema:

- d_{it} : demanda do item $i \in I$ no período $t \in T$;
- cap_{jt} : capacidade da máquina $j \in K$ no período $t \in T$;
- hc_{it} : custo unitário de estoque do item $i \in I$ no período $t \in T$;
- pt_{ijt} : tempo unitário de produção do item $i \in I$ na máquina $j \in K$ no período $t \in T$;
- st_{ijt} : tempo de *setup* do item $i \in I$ na máquina $j \in K$ no período $t \in T$;
- pc_{ijt} : custo unitário de produção do item $i \in I$ na máquina $j \in K$ no período $t \in T$;
- sc_{ijt} : custo de *setup* do item $i \in I$ na máquina $j \in K$ no período $t \in T$.

As variáveis de decisão são definidas a seguir:

- x_{ijt} : quantidade produzida do item $i \in I$ na máquina $j \in K$ no período $t \in T$;
- $y_{ijt} = \begin{cases} 1, & \text{se houver } \textit{setup} \text{ para o item } i \text{ na máquina } j \text{ no período } t, \\ 0, & \text{caso contrário;} \end{cases}$

- s_{it} : quantidade estocada do item $i \in I$ ao final do período $t \in T$.

Assim, a formulação matemática do CLSP-PM se dá da seguinte forma:

$$(\mathcal{F}) \quad \text{Min} \sum_{i \in I} \sum_{j \in K} \sum_{t \in T} (sc_{ijt}y_{ijt} + pc_{ijt}x_{ijt}) + \sum_{i \in I} \sum_{t \in T} hc_{it}s_{it} \quad (3.1)$$

sujeito a

$$\sum_{i \in I} (st_{ijt}y_{ijt} + pt_{ijt}x_{ijt}) \leq cap_{jt} \quad \forall j \in K; t \in T \quad (3.2)$$

$$s_{i,t-1} - s_{it} + \sum_{j \in K} x_{ijt} = d_{it} \quad \forall i \in I; t \in T \quad (3.3)$$

$$x_{ijt} \leq M_{it}y_{ijt} \quad \forall i \in I; j \in K; t \in T \quad (3.4)$$

$$s_{it} \geq 0 \quad \forall i \in I; t \in T \quad (3.5)$$

$$x_{ijt} \geq 0 \quad \forall i \in I; j \in K; t \in T \quad (3.6)$$

$$y_{ijt} \in \{0, 1\} \quad \forall i \in I; j \in K; t \in T. \quad (3.7)$$

A função objetivo (3.1) minimiza os custos de *setup*, produção e estocagem. As restrições (3.2) garantem que a capacidade de cada máquina não seja ultrapassada, enquanto as restrições (3.3) asseguram o balanço de estoque e o atendimento das demandas sem atrasos. As restrições (3.4) relacionam as variáveis x e y de forma que a produção do item i no período t só ocorre se houver *setup*, onde $M_{it} = \sum_{\tau=t}^m d_{i\tau}$. Por fim, as restrições (3.5)–(3.7) definem o domínio das variáveis de decisão.

3.2 DECOMPOSIÇÃO DE DANTZIG-WOLFE

Com base na formulação apresentada na subseção anterior, o problema será reformulado por meio da decomposição proposta por Dantzig e Wolfe (1960). A reformulação resultante possui um número exponencial de variáveis, cuja relaxação linear será resolvida utilizando métodos de GC, nos quais, a cada iteração, um ou mais subproblemas são solucionados.

O problema com número reduzido de variáveis é conhecido como Problema Mestre Restrito ($\mathcal{PMR}$). As soluções obtidas dos subproblemas serão associadas a novas variáveis que, por sua vez, serão adicionadas ao $\mathcal{PMR}$. A solução ótima da relaxação linear é alcançada quando

não houver mais variáveis com custo reduzido negativo (no caso de problemas de minimização) a serem incluídas. Dado o escopo do problema, o princípio da decomposição é descrito a seguir.

Seja R_i o conjunto de todos os planos de produção viáveis para um item $i \in I$, ou seja, planos que satisfazem as restrições de balanço de estoque e de *setup*, sendo definido por:

$$R_i = \left\{ y_{jt} \in \{0, 1\}, x_{jt}, s_t \geq 0 \left| \begin{array}{l} \sum_{j \in K} x_{j1} = d_{i1} + s_1 \\ s_{t-1} + \sum_{j \in K} x_{jt} = d_{it} + s_t \quad \forall t \in T \\ x_{jt} \leq M_{it} y_{jt} \quad \forall j \in K, t \in T \end{array} \right. \right\}. \quad (3.8)$$

Uma solução para o CLSP-PM consiste em definir um plano de produção para cada item $i \in I$, sendo o custo total dado pela soma dos custos dos planos selecionados. Seja λ_i^w uma variável binária que assume valor 1 se o plano de produção $w \in R_i$ para o item $i \in I$ fizer parte da solução do problema, ou valor 0, caso contrário. Sejam ainda α_{ij}^w o vetor que representa a quantidade produzida do item $i \in I$ na máquina $j \in K$ em cada período no plano de produção $w \in R_i$, e β_{ij}^w o vetor que indica os períodos em que há *setup* para o item i na máquina $j \in K$ no plano $w \in R_i$.

Dessa forma, a solução do problema pode ser construída progressivamente, gerando um limite inferior, e, em termos das variáveis de um plano de produção $w \in R_i$ para um item $i \in I$, pode ser representada como uma combinação convexa dos planos de R_i , expressa por meio das variáveis x_{ij} e y_{ij} nas seguintes expressões:

$$x_{ij} = \sum_{w \in R_i} \alpha_{ij}^w \lambda_i^w \quad y_{ij} = \sum_{w \in R_i} \beta_{ij}^w \lambda_i^w \quad (3.9)$$

com

$$\sum_{w \in R_i} \lambda_i^w = 1, \quad \lambda_i \in \{0, 1\} \quad \forall w \in R_i \quad (3.10)$$

Nesse contexto, em que a restrição de capacidade é o principal fator limitante do problema original, é possível combinar os vetores α_{ij}^w e β_{ij}^w no vetor γ_{ijt}^w , que formaliza o consumo de recursos do item $i \in I$ no plano de produção $w \in R_i$, na máquina $j \in K$, no período $t \in T$.

Dessa forma, as restrições de capacidade (3.2) podem ser reescritas como:

$$\sum_{i \in I} \sum_{w \in R_i} (pt_{ijt} \alpha_{ij}^w + st_{ijt} \beta_{ij}^w) \lambda_i^w \leq cap_{jt} \quad \forall j \in K, \forall t \in T \quad (3.11)$$

Sendo que o vetor γ_{ijt}^w representa o consumo de recursos da máquina $j \in K$ no período $t \in T$ pelo item $i \in I$, e é definido por:

$$\gamma_{ijt}^w = pt_{ijt}\alpha_{ij}^w + st_{ijt}\beta_{ij}^w \quad (3.12)$$

A função objetivo incorpora os custos de produção de forma semelhante à formulação original. Para um plano de produção $w \in R_i$, são considerados a quantidade produzida, os *setups* realizados e os estoques mantidos ao longo do horizonte de planejamento para o item $i \in I$, em cada máquina $j \in K$ e período $t \in T$. A expressão correspondente é dada por:

$$C_i^w = f(x_{jt}, y_{jt}, s_t) = \sum_{j \in K} \sum_{t \in T} (x_{jt} pc_{ijt} + y_{jt} sc_{ijt}) + \sum_{t \in T} (s_t hc_{it}) \quad (3.13)$$

Destacam-se ainda as variáveis duais μ_{jt} e π_i , associadas, respectivamente, às restrições de capacidade do $\mathcal{PM}$ (3.15) e às restrições de convexidade, que garantem a seleção de um plano de produção para cada item.

3.2.1 PROBLEMA MESTRE

A reformulação gerada pela DWD para o $\mathcal{PM}$ assume, portanto, a seguinte forma:

$$(\mathcal{PM}) \quad \text{Min} \sum_{i \in I} \sum_{w \in R_i} C_i^w \lambda_i^w \quad (3.14)$$

sujeito a

$$\sum_{i \in I} \sum_{w \in R_i} \gamma_{ijt}^w \lambda_i^w \leq \text{cap}_{jt} \quad \forall j \in K, \forall t \in T \quad [\mu_{jt}] \quad (3.15)$$

$$\sum_{w \in R_i} \lambda_i^w \geq 1 \quad \forall i \in I \quad [\pi_i] \quad (3.16)$$

$$\lambda_i^w \in \{0, 1\} \quad \forall i \in I, w \in R_i. \quad (3.17)$$

A função objetivo (3.14) minimiza os custos dos planos de produção selecionados. As restrições (3.15) asseguram que as capacidades das máquinas em cada período sejam respeitadas, enquanto as restrições (3.16) garantem que exatamente um plano de produção seja escolhido para cada item. Por fim, as expressões (3.17) definem a natureza das variáveis de decisão.

Dado que o $\mathcal{PM}$ possui um número proibitivo de variáveis, sua relaxação linear será resolvida por meio de um algoritmo de GC, a ser detalhado nas subseções seguintes. Apenas um subconjunto das variáveis do $\mathcal{PM}$ é necessário para resolver sua relaxação linear. Assim, o algoritmo de GC é iniciado com um pequeno subconjunto dessas variáveis. O problema com número reduzido de variáveis será denominado Problema Mestre Restrito ($\mathcal{PMR}$). A cada iteração, novas colunas são geradas por meio da resolução de um subproblema de *pricing* associado a cada item $i \in I$. Caso uma coluna gerada possua custo reduzido negativo, ela será adicionada à relaxação linear do $\mathcal{PMR}$. Os subproblemas de *pricing* são apresentados na subseção a seguir.

3.2.2 SUBPROBLEMA DE PRICING

Sejam μ_{jt} as variáveis duais associadas às restrições de capacidade (3.15) e π_i as variáveis duais associadas às restrições de convexidade (3.16). Uma solução do subproblema $\mathcal{SP}_i$ corresponde a um plano de produção $w \in R_i$ com custo reduzido, calculado por meio da função objetivo (3.19). Assim como na formulação original $\mathcal{F}$, as variáveis e restrições do subproblema $\mathcal{SP}_i$ mantêm o mesmo significado.

O custo reduzido associado a um plano de produção é dado por:

$$f(x_{jt}, y_{jt}, s_t) - \sum_{j \in K} \sum_{t \in T} \mu_{jt} (pt_{ijt}x_{jt} + st_{ijt}y_{jt}) - \pi_i \quad (3.18)$$

O subproblema de *pricing* associado a cada item $i \in I$ é responsável por identificar um plano de produção $w \in R_i$ que represente uma nova coluna viável para o $\mathcal{PM}$. A formulação desse subproblema é dada por:

$$(\mathcal{SP}_i) \quad \min \quad f(x_{jt}, y_{jt}, s_t) - \sum_{j \in K} \sum_{t \in T} \mu_{jt} (pt_{ijt}x_{jt} + st_{ijt}y_{jt}) - \pi_i \quad (3.19)$$

Sujeito a

$$s_1 = \sum_{j \in K} x_{j1} - d_{i1} \quad (3.20)$$

$$s_t = s_{t-1} + \sum_{j \in K} x_{jt} - d_{it} \quad \forall t \in \{2, \dots, m\} \quad (3.21)$$

$$x_{jt} \leq M_{it}y_{jt} \quad \forall j \in K, \forall t \in T \quad (3.22)$$

$$s_t \geq 0 \quad \forall t \in T \quad (3.23)$$

$$x_{jt} \geq 0 \quad \forall j \in K, \forall t \in T \quad (3.24)$$

$$y_{jt} \in \{0, 1\} \quad \forall j \in K, \forall t \in T \quad (3.25)$$

O subproblema $\mathcal{SP}_i$ retorna iterativamente o custo reduzido associado a um plano de produção $w \in R_i$, correspondente a uma nova coluna viável para o $\mathcal{PM}$ (3.14). O plano de produção ótimo será determinado quando não houver mais colunas com custo reduzido negativo. A ligação entre o problema mestre e os subproblemas ocorre por meio da restrição característica de consumo de recursos dos planos de produção, apresentada em (3.12).

3.3 PROGRAMAÇÃO DINÂMICA

No algoritmo de GC, cada subproblema de *pricing* $\mathcal{SP}_i$ busca um plano de produção $w \in R_i$ de menor custo reduzido. Em vez de resolver o $\mathcal{SP}_i$ por um resolvedor MILP, é adotada a PD que explora a natureza sequencial do horizonte de planejamento. A PD constrói uma rede de nós baseada nos níveis de estoque possíveis ao longo do horizonte de planejamento, dada a caracterização de pontos extremos de Wagner e Whitin (1958). Essa propriedade define que existe um plano ótimo em que só se produz quando o estoque zera, ou seja, a quantidade produzida atende as demandas dos períodos até a próxima produção. Com isso, são calculados os menores custos de transição entre esses estados por meio de uma função recursiva, e reconstrói, ao final, o plano de produção.

O grafo a seguir foi construído com base na propriedade de Wagner e Whitin (1958), segundo a qual, a produção ocorre apenas no início do período e cobre as demandas futuras. Com isso, a rede considera apenas caminhos viáveis conforme essa estrutura, reduzindo o número de caminhos possíveis. A PD, então, percorre essa rede em busca do caminho mínimo.

A Figura 3.1 representa a rede de nós para a PD para resolver o subproblema de *pricing*, no exemplo tem-se um horizonte de planejamento com quatro períodos. Nele, consideram-se as demandas d_{it} do item i nos períodos t e níveis de estoque possíveis ao final de cada um deles, S_{it}^p , os nós. Enquanto isso, os arcos com linhas sólidas representam decisões de produção $q_i^{p,\ell,t}$, quando $p = 1$, e os arcos tracejados correspondem ao balanço do estoque sem produção, quando $p > 1$.

Cada nó corresponde a um nível de estoque possível ao final de um período, e cada arco representa a decisão de produzir ou não produzir nesse período. O algoritmo executa-se em duas

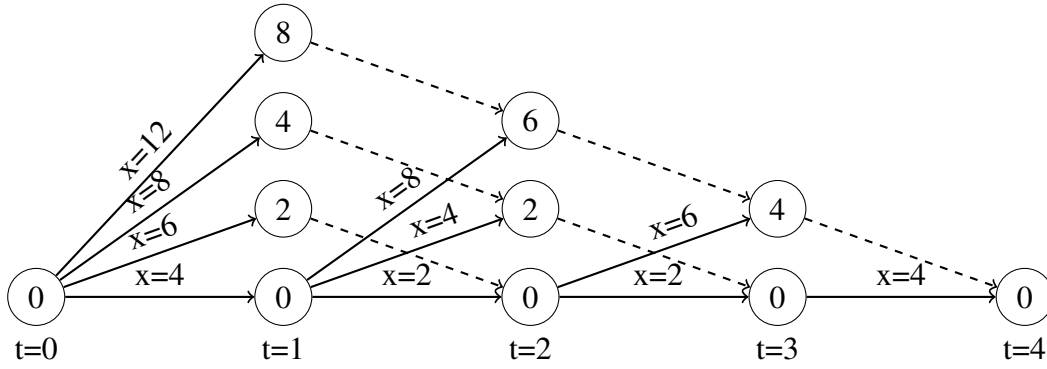


Figura 3.1: Rede de nós com a propriedade de Wagner e Whitin (1958) para um LSP com 4 períodos

fases principais:

1. **Cálculo dos custos mínimos:** percorre os períodos na ordem sequencial, calculando recursivamente o menor custo para atingir cada nível de estoque S_{it}^ℓ .
2. **Reconstrução da solução:** a partir do último período, retorna pelo caminho mínimo, ou seja, pelos nós de menor custo, os quais seleciona as decisões ótimas de produção (x_{ijt}), *setup* (y_{ijt}) e estoque (s_{it}).

Para o desenvolvimento da PD, se faz necessário uma notação que represente os nós, decisões e custos envolvidos na construção da rede. Para isso, consideram-se os índices p e ℓ , os quais indicam os diferentes níveis de estoque (ou nós) possíveis na rede, onde S_{it}^p representa o nível de estoque do item i no período t , suficiente para atender às demandas do intervalo entre os períodos t e $t + p - 2$. Já $q_i^{p,\ell,t}$ corresponde à quantidade do item i que deve ser produzida ao transitar do nível p no período $t - 1$ para o nível ℓ no período t , e $c_{ij}^{p,\ell,t}$ define o custo total associado a essa decisão de produção na máquina j no período t . Desse modo, se obtêm $F_{\ell,t}$, o qual indica o menor custo acumulado necessário para atingir o nível de estoque S_{it}^ℓ ao final do período t . As demais variáveis são variáveis conhecidas, como μ_{jt} , o dual vinculado à restrição de capacidade da máquina j no período t , e π_i , o dual relacionado à restrição de convexidade do item i , são obtidos a partir do modelo mestre ($\mathcal{PM}$). $\mathcal{SP}_i$ refere-se ao subproblema de *pricing* associado ao item i , e, por fim, C_i^w representa o custo reduzido do plano de produção obtido pela PD.

Assim, com base na implementação de Toledo (1998), foi desenvolvido o algoritmo de PD, o qual é descrito abaixo no Algoritmo 1.

Os nós (níveis de estoque) são definidos com base na caracterização de pontos extremos de Wagner e Whitin (1958), onde para cada período $t \in T$ e item $i \in I$, são definidos os níveis

Algoritmo 1 Programação Dinâmica para os Subproblemas de Pricing $\mathcal{SP}_i$

```

1:  $F_{\ell,t} \leftarrow \infty, F_{1,1} \leftarrow 0$ 
2: para  $t = 2$  até  $m + 1$  faça  $\triangleright$  Cálculo dos custos mínimos
3:   para  $\ell \in P$  faça
4:     para  $p \in P$  faça
5:       para  $j \in K$  faça
6:         Calcular  $q_i^{p,\ell,t}$ 
7:         Calcular  $c_{ij}^{p,\ell,t}$ 
8:         se  $p = 1$  então
9:            $F_{\ell,t} \leftarrow \min \left( F_{\ell,t}, F_{1,t-1} + c_{ij}^{1,\ell,t} \right)$ 
10:        senão
11:           $F_{\ell,t} \leftarrow \min \left( F_{\ell,t}, F_{\ell+1,t-1} + c_{i1}^{\ell+1,\ell,t} \right)$ 
12:        fim se
13:      fim para
14:    fim para
15:  fim para
16: fim para
17:  $C_i^w \leftarrow F_{1,m+1}, t \leftarrow m + 1, \ell \leftarrow 1$ 
18: enquanto  $t > 1$  faça  $\triangleright$  Reconstrução da solução
19:    $(p, t-1) \leftarrow$  estado anterior de  $F_{\ell,t}$ 
20:    $x_{ijt} \leftarrow q_i^{p,\ell,t}$ 
21:    $y_{ijt} \leftarrow 1$  se  $x_{ijt} > 0$ , senão  $y_{ijt} \leftarrow 0$ 
22:    $s_{it} \leftarrow S_{it}^p$ 
23:    $\ell \leftarrow p, t \leftarrow t-1$ 
24: fim enquanto
25:  $C_i^w \leftarrow C_i^w - \pi_i$ 
26: retorne  $C_i^w, x_{ijt}, y_{ijt}, s_{it}$ 

```

de estoque (os nós da rede), S_{it}^p , com $p = 1, \dots, m - t + 2$, dados por:

$$S_{it}^p = \sum_{\tau=t}^{t+p-2} d_{i\tau}, \quad (3.26)$$

$$S_{it}^1 = 0 \quad (\text{estoque zero}). \quad (3.27)$$

O índice p indica que, caso não haja produção entre os períodos t e $t + p - 2$, o nível de estoque S_{it}^p é suficiente para atender às demandas correspondentes.

Os arcos são as decisões de produção, ou seja, um arco liga o nó $(p, t - 1)$ ao nó (ℓ, t) e representa a decisão de produzir (ou não) no período $t - 1$:

$$q_i^{p,\ell,t} = \begin{cases} d_{i,t-1} + S_{it}^\ell, & p = 1 \quad (\text{há produção}), \\ 0, & p > 1 \quad (\text{sem produção}). \end{cases} \quad (3.28)$$

Para cada máquina $j \in K$, período t e arco (p, ℓ) , define-se o custo total dos arcos:

$$c_{ij}^{p,\ell,t} = \begin{cases} pc_{ijt} \cdot q_i^{p,\ell,t} + sc_{ijt} \cdot \delta_{ij}^{p,\ell,t} - \mu_{jt}(pt_{ijt} \cdot q_i^{p,\ell,t} + st_{ijt} \cdot \delta_{ij}^{p,\ell,t}), & p = 1, \\ hc_{it} \cdot S_{i,t-1}^p - \mu_{jt} \cdot pt_{ijt} \cdot S_{i,t-1}^p, & p > 1, \end{cases} \quad (3.29)$$

Onde $\delta_{ij}^{p,\ell,t}$ é uma variável binária que assume valor 1 se $q_i^{p,\ell,t} > 0$, e 0 caso contrário. Subtraem-se ainda as variáveis duais provenientes do $\mathcal{PM}$, μ_{jt} (restrição de capacidade) e π_i (restrição de convexidade). Por sua vez, isso implica em $F_{\ell,t}$, a função de custo mínimo, onde a recursividade é desenvolvida. Ela recorre do menor custo acumulado para atingir o nível de estoque S_{it}^ℓ ao final do período t . Onde se calcula:

$$F_{\ell,t} = \min \left\{ \min_{j \in K} [F_{1,t-1} + c_{ij}^{1,\ell,t}], F_{\ell+1,t-1} + c_{i1}^{\ell+1,\ell,t} \right\}, \quad t = 2, \dots, m+1, \quad (3.30)$$

Em cada estado, registram-se a máquina selecionada, o nó de origem p e a quantidade produzida $q_i^{p,\ell,t}$. E com isso, se dá a fase seguinte, a reconstrução do plano ótimo, a qual percorre o caminho mínimo mapeado, transitando através dos nós em ordem inversa, de modo que são extraídas as variáveis de produção, estoque e *setup* através de:

$$x_{ijt} = q_i^{p,\ell,t}, \quad y_{ijt} = \begin{cases} 1, & x_{ijt} > 0, \\ 0, & \text{caso contrário,} \end{cases} \quad s_{it} = S_{it}^p. \quad (3.31)$$

Finalmente, o custo reduzido do plano é dado por $C_i^w = F_{1,m+1} - \pi_i$. Se $C_i^w < 0$, a coluna ($\alpha_{ijt}^w = x_{ijt}$, $\beta_{ijt}^w = y_{ijt}$) é adicionada ao $\mathcal{PMR}$. E dessa forma, é obtido o plano de produção para o item i .

3.4 GERAÇÃO DE COLUNAS

Introduzido por Ford Jr e Fulkerson (1958), o método de GC é responsável por obter iterativamente soluções para a relaxação linear da reformulação do CLSP-PM via DWD. A estrutura de resolução é descrita no Algoritmo 2.

O algoritmo apresentado nesse trabalho possui uma estrutura para empregar diferentes

resolvedores para a resolução dos subproblemas. Em sua forma original, utiliza um resolvedor de Programação Linear (*LPSolver*) para o Problema Mestre Restrito ($\mathcal{PMR}$) e um resolvedor de Programação Linear Inteira Mista (*MILPSolver*) para os subproblemas. Alternativamente, os subproblemas podem ser resolvidos por meio de PD, conforme detalhado nas seções seguintes.

Algoritmo 2 Geração de Colunas ($\mathcal{PM}$)

```

1:  $sol_{PM}, sol_{SP} \leftarrow \emptyset$ 
2:  $Col_{Add} \leftarrow \text{VERDADEIRO}$ 
3: enquanto  $Col_{Add}$  faça
4:    $sol_{PM} \leftarrow \text{LPSolver}(\mathcal{PM})$ 
5:    $Col_{Add} \leftarrow \text{FALSO}$ 
6:   para cada item  $i \in I$  faça
7:     Atualizar  $SP$  com a solução dual  $(\mu, \pi_i)$ 
8:      $sol_{SP} \leftarrow \text{Solver}(SP(\mu, \pi_i)) \triangleright \text{Resolvido por } MILPSolver \text{ ou } PD$ 
9:     se  $f(sol_{SP}) \leq 0$  então
10:      Adicionar  $sol_{SP}$  como nova coluna ao  $\mathcal{PM}$ 
11:       $Col_{Add} \leftarrow \text{VERDADEIRO}$ 
12:   fim se
13: fim para
14: fim enquanto
15: retorne  $sol_{PM}$ 

```

O Algoritmo 2 descreve o processo de execução da GC. Ele recebe como entrada uma instância inicial do $\mathcal{PMR}$. Na linha 1, as soluções do $\mathcal{PMR}$ e dos subproblemas são inicializadas como vazias. Em seguida, uma solução artificial é introduzida na função objetivo do $\mathcal{PMR}$, e variáveis artificiais são incorporadas aos planos de produção, conforme recomendado por Vanderbeck (2005). Como se trata de um problema de minimização, atribui-se um valor suficientemente grande a essas variáveis artificiais, de modo a orientar o algoritmo para minimizá-las ao longo das iterações.

Uma iteração do algoritmo corresponde ao laço das linhas 3 a 14. Em cada iteração, o $\mathcal{PMR}$ corrente é resolvido utilizando um resolvedor de PL, e suas soluções primal e dual são atualizadas. Em seguida, um subproblema de *pricing* é resolvido para cada item $i \in I$ (linha 8), podendo ser resolvido por um resolvedor de MILP ou, alternativamente, por PD, conforme o algoritmo adotado na linha 8. Caso a solução do subproblema apresente custo reduzido negativo, a coluna correspondente é adicionada ao $\mathcal{PMR}$ (linha 10).

O algoritmo termina quando, em uma iteração, nenhuma nova coluna é adicionada ao $\mathcal{PMR}$. Ao final, retorna-se a solução da relaxação linear do Problema Mestre, cujo valor representa um limite dual inferior para o CLSP-PM.

Para ilustrar o funcionamento da GC, a Figura 4.7 apresenta o fluxograma do método.

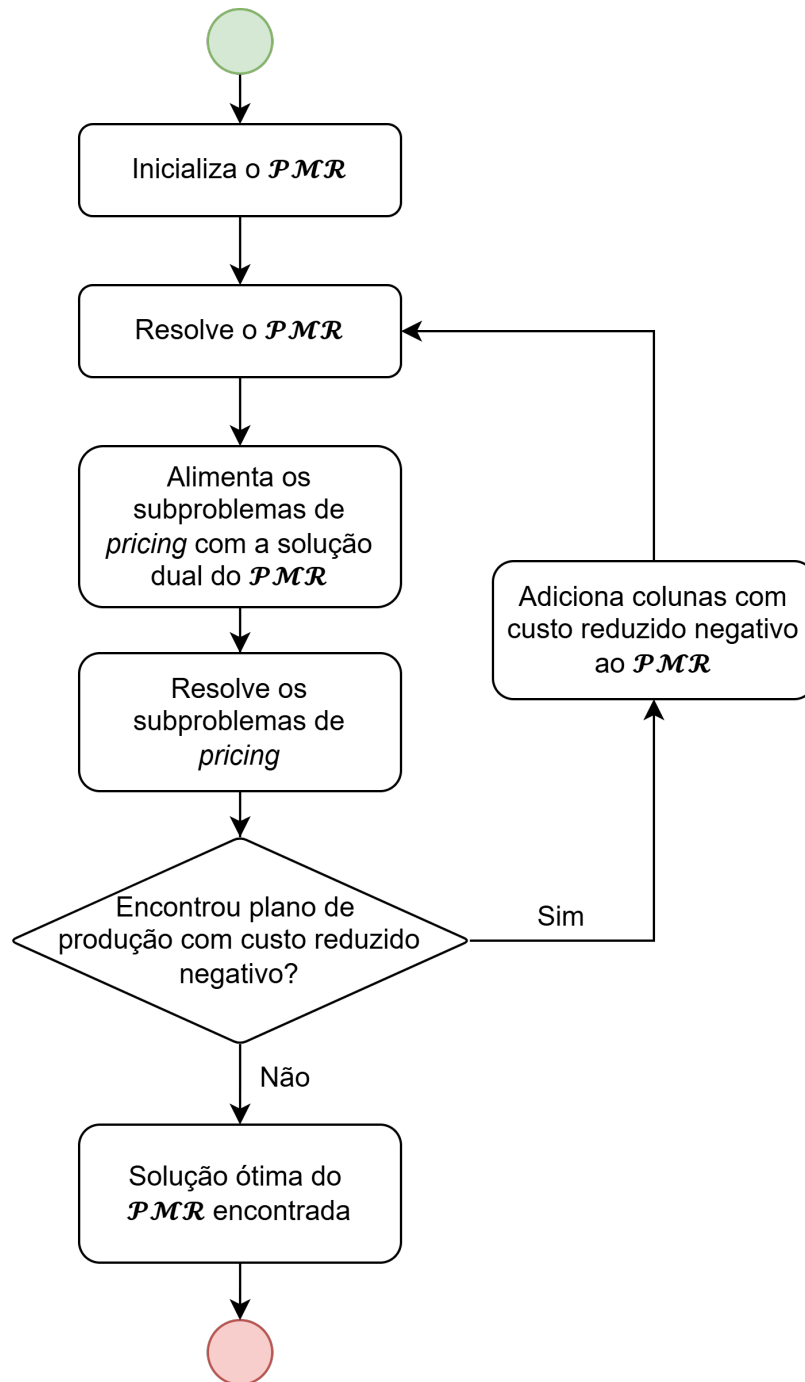


Figura 3.2: Fluxograma da GC

3.5 RECONSTRUÇÃO DA SOLUÇÃO

Após a obtenção de uma solução para o $\mathcal{PM}$ por meio da CG, é necessário reconstruir essa solução no modelo compacto original da formulação CLSP-PM. Para isso, cada variável $\lambda_i^w = 1$ selecionada representa um plano de produção viável para o item i , especificando uma sequência de períodos e máquinas nos quais a produção ocorre.

A partir da solução do problema mestre, representada pelas variáveis λ_i^w , é possível

reconstituir as variáveis do modelo compacto do CLSP-PM. Para cada item $i \in I$, a seleção de um plano de produção $w \in R_i$ com $\lambda_i^w = 1$ determina uma combinação específica das variáveis x_{ijt} e y_{ijt} ao longo do horizonte de planejamento.

Dessa forma, a reconstrução é realizada conforme as expressões abaixo:

$$x_{ijt} = \sum_{w \in R_i} \alpha_{ijt}^w \lambda_i^w, \quad y_{ijt} = \sum_{w \in R_i} \beta_{ijt}^w \lambda_i^w \quad (3.32)$$

onde:

- α_{ijt}^w representa a quantidade do item i produzida na máquina j no período t , conforme o plano w ;
- β_{ijt}^w representa a ativação de *setup* da máquina j para o item i no período t ;

Como cada item i está associado a exatamente um plano selecionado, tem-se a restrição:

$$\sum_{w \in R_i} \lambda_i^w = 1, \quad \lambda_i^w \in \{0, 1\} \quad \forall w \in R_i \quad (3.33)$$

Assim, os valores de x_{ijt} e y_{ijt} são reconstruídos como uma solução para o modelo compacto, de acordo com a formulação do CLSP-PM, incluindo os balanços de estoque, que são recalculados com base na produção e demanda:

$$s_{i1} = \sum_{j \in K} x_{ij1} - d_{i1} \quad (3.34)$$

$$s_{it} = s_{i,t-1} + \sum_{j \in K} x_{ijt} - d_{it}, \quad \forall t \in \{2, \dots, m\} \quad (3.35)$$

Com isso, embora o estoque s_{it} não seja diretamente parte da decomposição em colunas, ele é completamente determinado a partir dos valores reconstruídos a partir de x_{ijt} .

Por fim, o custo total C_i^w de um plano $w \in R_i$ também é calculado, a partir de:

$$C_i^w = \sum_{j \in K} \sum_{t \in T} (x_{jt} p_{c_{ijt}} + y_{jt} s_{c_{ijt}}) + \sum_{t \in T} s_t h_{c_{it}} \quad (3.36)$$

Assim, é obtida a solução final obtida pela heurística, entretanto ela pode apresentar violações às restrições de capacidade ou apresentar potencial de melhoria quanto ao custo total. Com isso, no capítulo seguinte, serão introduzidos os métodos heurísticos desenvolvidos nesse trabalho, os quais visam viabilizar e otimizar as soluções encontradas.

4 ABORDAGENS PROPOSTAS

Nesse capítulo, são apresentados os métodos heurísticos propostos, seguindo a sequência de heurísticas construtivas, nas quais serão abordadas a $R\&F$ e a Heurística baseada em Geração de Colunas (HCG). Esta última será detalhada por meio da estratégia de *diving* e das heurísticas de transferência (TH), a qual possui um algoritmo de Adiantamento de Produção, Postergação de Produção e Transferência entre Máquinas. Além disso, uma heurística de viabilização via Programação Linear (LP) é apresentada. Por fim, são apresentadas as heurísticas de busca local, compostas pelas abordagens $F\&O$ e $F\&O$ dinâmico.

As abordagens construtivas propostas são descritas com mais detalhes nas Seções 4.1.1 e 4.1.2. Já as variantes da heurística de busca local são apresentadas na Seção 4.2.

4.1 HEURÍSTICAS CONSTRUTIVAS

Nesta seção, são apresentadas as heurísticas $R\&F$ e a HCG, com o objetivo de construir uma solução viável inicial para o CLSP-PM.

A heurística $R\&F$ consiste na decomposição de um problema MILP em subproblemas menores, significativamente mais simples de resolver do que o problema original. Essa decomposição é realizada por meio da partição do conjunto de variáveis inteiras da seguinte forma: (i) um subconjunto de variáveis é fixado; (ii) um subconjunto mantém a restrição de assumir valores inteiros; e (iii) as variáveis restantes têm suas restrições de integralidade relaxadas. A cada iteração, o subconjunto de variáveis fixadas é ampliado, o subconjunto de variáveis inteiras é modificado e o conjunto de variáveis relaxadas é reduzido. Quando não restarem mais variáveis relaxadas, uma solução viável inteira é encontrada, encerrando o procedimento.

Já a HCG é uma abordagem do tipo *diving* que utiliza como ponto de partida a solução da relaxação linear do $\mathcal{PM}$, obtida por meio do algoritmo de GC. Nessa abordagem, os valores fracionários das variáveis λ_i^w são utilizados para guiar a construção de uma solução inteira viável. O processo ocorre em etapas: (i) a partir da solução fracionária, iterativamente a coluna de maior valor para cada item $i \in I$ é escolhida, a qual é fixada como $\lambda_i^w = 1$; (ii) uma vez que todos os planos candidatos são selecionados, a solução do modelo compacto é reconstruída, conforme descrito na Seção 3.5; (iii) caso a solução reconstruída apresente violações às res-

trições de capacidade, aplica-se um procedimento de viabilização baseado em transferência de produção. Uma vez construída, essa solução é utilizada como ponto de partida para as heurísticas de viabilização (no caso da HCG, se necessário) e para as heurísticas de busca local, isto é, as variantes do método *F&O*.

4.1.1 RELAX-AND-FIX (*R&F*)

Na heurística *R&F*, define-se uma *janela* denotada por $[\alpha, \beta]$, que representa o intervalo composto pelos períodos de α a β . Diz-se que uma variável da formulação $\mathcal{F}$ pertence à janela $[\alpha, \beta]$ se estiver associada a um período $t \in [\alpha, \beta]$.

Na abordagem *R&F* proposta para o CLSP-PM, a cada iteração, uma formulação restrita $\mathcal{F}_{RF}^{\alpha, \beta}$ da formulação original $\mathcal{F}$ é resolvida por um solucionador MILP, considerando um limite de tempo por iteração dado por t_{lim_sub} . Essa formulação restrita é definida da seguinte maneira: (i) as variáveis y da formulação $\mathcal{F}$ associadas aos períodos $t \in [\alpha, \beta]$ mantêm a exigência de integralidade; (ii) as variáveis y associadas aos períodos $t \in [1, \alpha - 1]$ são fixadas de acordo com a solução obtida na iteração anterior; (iii) as restrições de integralidade são relaxadas para as demais variáveis y , ou seja, aquelas com $t \in [\beta + 1, m]$.

O tamanho da janela $[\alpha, \beta]$ é dado por $k = \beta - \alpha$. Ao final de cada iteração, se uma solução viável para $\mathcal{F}_{RF}^{\alpha, \beta}$ for obtida, a janela $[\alpha, \beta]$ é deslocada para frente com um passo $k' \leq k$. Caso contrário, um procedimento de *backtrack* é realizado para encontrar a menor janela $[\alpha', \beta]$, com $1 \leq \alpha' < \alpha$, para a qual uma solução viável possa ser obtida. Se o procedimento alcançar $\alpha' = 1$ sem sucesso (e t_{lim_sub} for infinito), a instância do problema é declarada inviável.

O algoritmo é encerrado quando uma das três condições a seguir é satisfeita: (i) todo o horizonte de planejamento é coberto, ou seja, $\beta = m$, e uma solução viável inteira para $\mathcal{F}$ é encontrada; (ii) o procedimento de *backtrack* comprova a inviabilidade da instância (quando t_{lim_sub} é infinito); (iii) ou um tempo limite global t_{lim} é atingido.

O Algoritmo 3 descreve a heurística *R&F* proposta para o CLSP-PM. Na Linha 1, os valores iniciais de α e β são definidos. Uma solução sol para $\mathcal{F}_{RF}^{\alpha, \beta}$ é obtida por meio de um solucionador MILP na Linha 2. Cada execução do laço *while*, entre as Linhas 3 e 16, corresponde a uma iteração. Na Linha 5, as variáveis y com índices $t \in [\alpha, \beta]$ são fixadas conforme a solução viável sol obtida. Se sol for inviável para $\mathcal{F}_{RF}^{\alpha, \beta}$, um procedimento de *backtrack* é acionado, conforme descrito nas Linhas 6–13. Se o *backtrack* for bem-sucedido (Linha 8), as variáveis y com $t \in [\alpha', \beta]$ são fixadas segundo sol (Linha 9) e os valores de α e β são atualizados (Linha 14). Caso contrário, o algoritmo *R&F* é encerrado sem encontrar uma solução viável. Após a atua-

lização, uma nova formulação $\mathcal{F}_{RF}^{\alpha,\beta}$ é resolvida e inicia-se nova iteração. O algoritmo retorna uma solução viável para $\mathcal{F}$ na Linha 17, quando todo o horizonte de planejamento for coberto, ou seja, $\beta = m$.

Algoritmo 3 $R\&F(\mathcal{F}, k, k', t_{lim}, t_{lim\_sub})$

```

1:  $\alpha \leftarrow 1, \beta \leftarrow \alpha + k - 1$ 
2:  $sol \leftarrow \text{MILP}(\mathcal{F}_{RF}^{\alpha,\beta}, t_{lim\_sub})$ 
3: enquanto  $sol$  não é inteiro e  $t_{elapsed} \leq t_{lim}$  faça
4:   se  $sol$  é viável para  $\mathcal{F}_{RF}^{\alpha,\beta}$  então
5:     Fixar as variáveis  $y$  com  $t \in [\alpha, \beta]$  com base em seus valores em  $sol$ 
6:   senão
7:      $sol, \alpha' \leftarrow R\&F\_backtrack(\mathcal{F}, \alpha, \beta, sol, t_{lim\_sub})$ 
8:     se  $\alpha' > 0$  então
9:       Fixar as variáveis  $y$  com  $t \in [\alpha', \beta]$  com base em seus valores em  $sol$ 
10:    senão
11:      retorne inviável
12:    fim se
13:  fim se
14:   $\alpha \leftarrow \alpha + k', \beta \leftarrow \min\{\alpha + k - 1, m\}$ 
15:   $sol \leftarrow \text{MILP}(\mathcal{F}_{RF}^{\alpha,\beta}, t_{lim\_sub})$ 
16: fim enquanto
17: retorne  $sol$ 

```

O procedimento de *backtrack* está descrito no Algoritmo 4. Ele recebe como entrada uma solução inviável sol para uma formulação restrita $\mathcal{F}_{RF}^{\alpha,\beta}$.

Algoritmo 4 $R\&F\_backtrack(\mathcal{F}, \alpha, \beta, sol, t_{lim\_sub})$

```

1:  $\alpha \leftarrow \alpha - 1$ 
2: enquanto  $sol$  é inviável e  $\alpha > 0$  faça
3:    $sol \leftarrow \text{MILP}(\mathcal{F}_{RF}^{\alpha,\beta}, t_{lim\_sub})$ 
4:   se  $sol$  é viável então
5:     retorne  $sol, \alpha$ 
6:   senão
7:      $\alpha \leftarrow \alpha - 1$ 
8:   fim se
9: fim enquanto
10: retorne  $sol, 0$ 

```

Inicialmente, o valor de α é decrementado em uma unidade (Linha 1). Em seguida, o laço *while*, definido nas Linhas 2–9, tenta encontrar uma solução viável para o problema restrito. Caso a busca seja bem-sucedida, a solução encontrada é retornada juntamente com o valor atualizado de α correspondente à formulação restrita que a originou.

Se nenhuma solução viável for encontrada e o valor de α atingir zero, o algoritmo retorna a solução sol (ainda inviável) e o valor zero, indicando que o *backtrack* atingiu o início do horizonte de planejamento. Nesse caso, caso o parâmetro t_{lim_sub} seja infinito, a instância do

problema é considerada inviável.

O processo de funcionamento do Algoritmo 3 em conjunto com o Algoritmo 4 é apresentado na Figura 4.1.

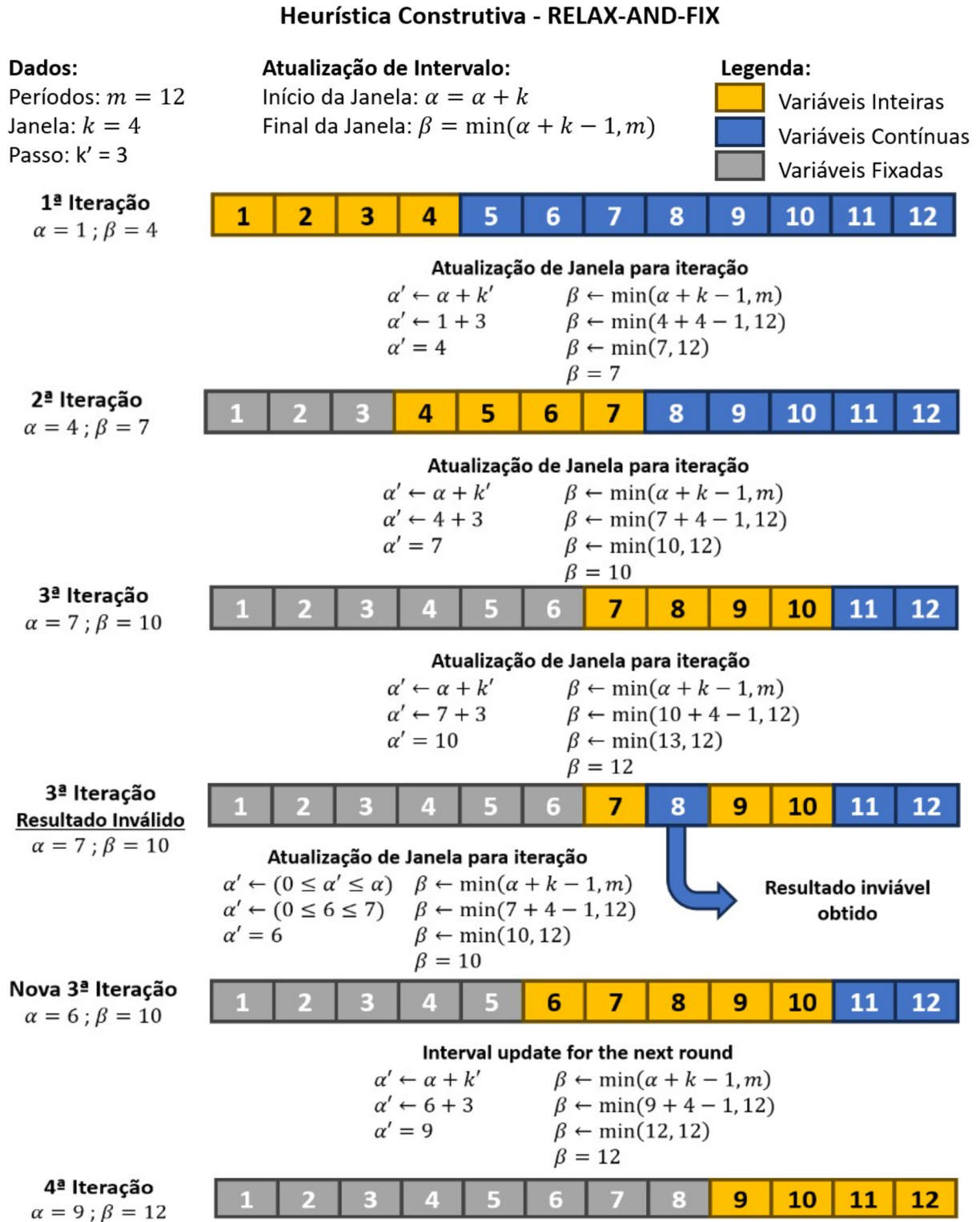


Figura 4.1: Exemplo do R&F

4.1.2 HEURÍSTICA BASEADA EM GERAÇÃO DE COLUNAS (HCG)

Esta seção tem como objetivo apresentar a HCG proposta para a obtenção de soluções iniciais para o CLSP-PM. A heurística fundamenta-se em um modelo de decomposição em Programação Inteira, que inclui a decomposição de Dantzig e Wolfe (1960) e a Geração de Colunas (GC). Dada a decomposição do CLSP-PM em seu problema mestre $\mathcal{MP}$ (3.14) e problema de *pricing* $\mathcal{SP}$ (3.19), a fase inicial consiste na obtenção de uma solução fracionária via GC.

A heurística opera com base nessa solução inicial, na qual são definidos os primeiros valores das variáveis λ_i^w . Estas variáveis passam a compor o conjunto de variáveis candidatas à análise, determinando os melhores planos de produção a serem arredondados. Em seguida, a variável com valor mais próximo de 1 é selecionada e na iteração seguinte da GC, seu valor é fixado em 1. Quando o subconjunto de variáveis candidatas ao arredondamento estiver vazio, uma solução viável completa é encontrada, encerrando o procedimento.

O Algoritmo 5 descreve a heurística, considerando como entrada o tempo limite de execução (t_{limit}).

Algoritmo 5 Heurística Baseada em Geração de Colunas (HCG) (t_{limit})

- 1: $sol_{RH}, sol_{PMR} \leftarrow \emptyset$
 - 2: Inicializa $\mathcal{MP} \triangleright$ Com colunas artificiais e variáveis de violação de capacidade
 - 3: $sol_{MP} \leftarrow \text{Geração de Colunas}(\mathcal{MP})$
 - 4: Fixar as variáveis λ que estejam com valor igual a 1 em sol_{MP}
 - 5: **enquanto** sol_{MP} não é inteiro **e** tempo decorrido $\leq t_{limit}$ **faça**
 - 6: Fixar limite inferior e superior da variável λ mais próxima de 1 em sol_{MP}
 - 7: $sol_{MP} \leftarrow \text{Geração de Colunas}(\mathcal{MP})$
 - 8: **fim enquanto**
 - 9: **retorne** sol_{MP}
-

Na Linha 1, é realizada a inicialização do $\mathcal{PMR}$. Ressalta-se que o $\mathcal{PMR}$ corresponde à versão relaxada da $\mathcal{MP}$, permitindo, portanto, violações de capacidade. O $\mathcal{PMR}$ inicial inclui uma variável artificial para cada item $i \in I$, cujos coeficientes γ_{ijt}^w são todos nulos. Essas variáveis artificiais representam planos de produção vazios, não podendo, assim, fazer parte da solução final. Para garantir que tais variáveis não estejam presentes na solução ótima da versão relaxada de $\mathcal{MP}$, são atribuídos custos suficientemente altos. Na Linha 2, a solução sol do $\mathcal{PMR}$ é inicializada como vazia. Na Linha 3, resolve-se a relaxação linear do $\mathcal{PMR}$, e os limites inferiores das variáveis λ com valor 1 em sol são fixados em 1.

A cada iteração da heurística (Linhas 5 a 8), uma variável λ tem seu limite inferior fixado em 1, e a $\mathcal{MP}$ é reotimizada com o algoritmo de Geração de Colunas. O laço de arredondamento prossegue, fixando os valores das variáveis λ_i^w , onde novas variáveis são arredondadas a cada

iteração até que se obtenha uma solução inteira. A heurística termina ao encontrar a solução viável completa, que é retornada na Linha 9.

Para ilustrar o funcionamento do método, é apresentado o seu fluxograma na Figura 4.2.

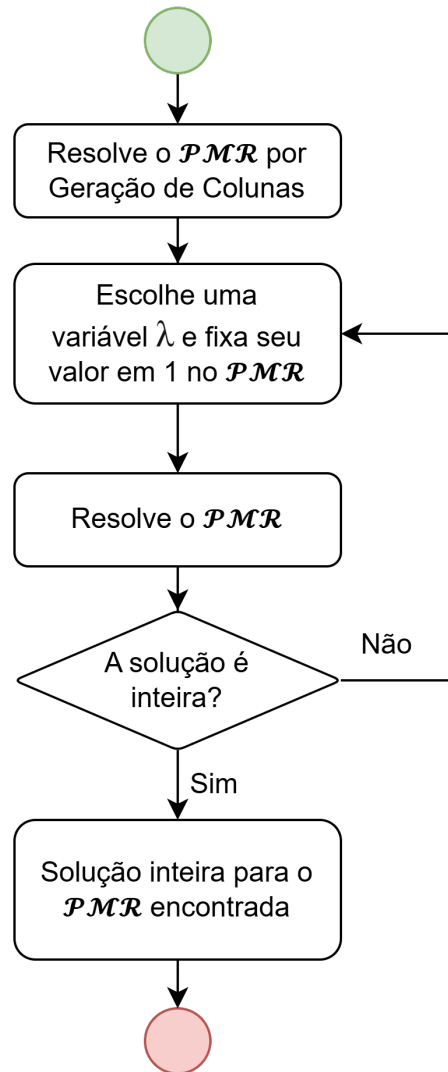


Figura 4.2: Fluxograma da HCG

No entanto, esse processo pode, em certas iterações, levar à inviabilidade da solução devido às restrições de capacidade, fazendo com que o algoritmo termine sem encontrar uma solução viável. E para evitar a inviabilização do processo são executadas as heurísticas de viabilização, descritas na seção 4.1.3.

4.1.3 HEURÍSTICA DE VIABILIZAÇÃO (TH)

Nesta subseção, apresenta-se a heurística de viabilização baseada na transferência de produção. Estratégias com essa abordagem já foram exploradas na literatura, como nos trabalhos

de Trigueiro et al (1989), Toledo e Armentano (2006) e Fiorotto et al (2015), o que demonstra a relevância em contextos similares.

Parte-se do princípio de que a solução obtida por meio da HGC nem sempre é viável, devido ao arredondamento das variáveis λ_i^w e sua reconstrução para as variáveis da formulação $\mathcal{F}$. Ou seja, pode ocorrer de a produção exceder a capacidade disponível das máquinas em determinados períodos, ou até mesmo de não atender completamente à demanda de alguns itens. Para contornar essa situação, aplica-se uma heurística de viabilização dividida em três etapas, garantindo a viabilidade da solução antes da execução da heurística de busca local $F\&O$.

Para contornar a inviabilidade, a abordagem proposta consiste na transferência de produção, a qual tem como base a violação de capacidade (VC_{jt}) da solução encontrada para uma máquina $j \in K$ no período $t \in T$. Dessa forma, a heurística busca redistribuir a produção x_{ijt} entre períodos $t \in T$ e máquinas $j \in K$, com o objetivo de reduzir ou eliminar as violações de capacidade. E para isso, três etapas de realocação são consideradas: (i) antecipação da produção para períodos anteriores, (ii) postergação para períodos futuros e (iii) transferência entre máquinas no mesmo período.

Caso essas estratégias não sejam suficientes para viabilizar a solução, são adicionadas variáveis de violação da demanda Φ ao problema. Permitindo resolver o modelo de forma relaxada por meio de uma heurística baseada em programação linear ($\mathcal{LP}$).

Algoritmo 6 Heurística de viabilidade por transferência de produção (sol)

```

1: para  $t \in T$  faça
2:   para  $j \in K$  faça
3:     se  $t > 1$  então
4:       para  $t' = 1 : t$  faça
5:          $Folga_{jt'} \leftarrow cap_{jt'} - \sum_{i \in I} (st_{ij't'} y_{ij't'} + pt_{ijt} x_{ijt'})$ 
6:       fim para
7:     fim se
8:     se  $VC_{jt} > 0$  então
9:       se  $\sum_{t'=1}^t Folga_{jt'} > 0$  então
10:         $sol \leftarrow$  Heurística de antecipação de produção( $sol$ )
11:      senão
12:         $sol \leftarrow$  Heurística de postergação( $sol$ )
13:      fim se
14:      se  $VC_{jt} > 0$  então
15:         $sol \leftarrow$  Heurística de Transferência entre Máquinas( $sol$ )
16:      fim se
17:    fim se
18:  fim para
19: fim para
20: retorne  $sol$ 

```

O Algoritmo 6 apresenta a heurística de viabilidade por transferência de produção proposta para o CLSP-PM. Nele o método, através dos períodos $t \in T$ e máquinas $j \in K$, verifica a quantidade existente de violação de capacidade VC_{jt} ou folga disponível $Folga_{jt}$. Caso não haja violação (Linha 3), calcula-se a folga de capacidade do período e máquina $Folga_{jt}$ na (Linha 5). Quando há violação de capacidade (Linha 8), a escolha entre as heurísticas de antecipação e postergação é feita de acordo com a disponibilidade de folga em períodos anteriores (Linhas 10–12). Se mesmo assim houver violação de capacidade, a heurística de transferência entre máquinas é aplicada (Linha 15), redistribuindo a produção. O procedimento continua até percorrer todo o horizonte de planejamento e retorna uma solução *sol* potencialmente viável, corrigindo excedentes de capacidade antes da execução da heurística de busca local *F&O*.

TRANSFERÊNCIA DE PRODUÇÃO ENTRE PERÍODOS E MÁQUINAS

A primeira tentativa de tornar a solução viável ocorre por meio da transferência da produção. Essa abordagem é composta por três estratégias complementares:

- **Antecipação da produção:** transfere parte da produção de um período para períodos anteriores que possuam disponibilidade ($Folga_{jt'}$), aproveitando recursos subutilizados.
- **Postergação da produção:** desloca parte da produção de um período para períodos futuros com disponibilidade, preservando o atendimento à demanda e evitando aumentos desnecessários no número de *setups*.
- **Transferência entre máquinas:** redistribui a produção entre diferentes máquinas no mesmo período, desde que exista folga suficiente na máquina de destino, eliminando violações de capacidade.

Essas três estratégias são aplicadas de forma iterativa, as quais buscam a melhor realocação possível para reduzir violações de capacidade. Os Algoritmos 7, 8 e 9 apresentam, respectivamente, as heurísticas de antecipação, postergação e transferência entre máquinas. A ideia de funcionamento de cada estratégia de transferência de produção é dada na Figura 4.3, onde para a antecipação e postergação os blocos representam os períodos, e na restante os blocos representam a transferência entre máquinas no mesmo período.

O Algoritmo 7 apresenta a heurística de antecipação, utilizada quando há disponível capacidade de folga, $Folga_{jt}$, em períodos anteriores ao período t analisado. O procedimento percorre todos os itens $i \in I$ e máquinas $j \in K$, avaliando cada período anterior $t' \in [1, t - 1]$.

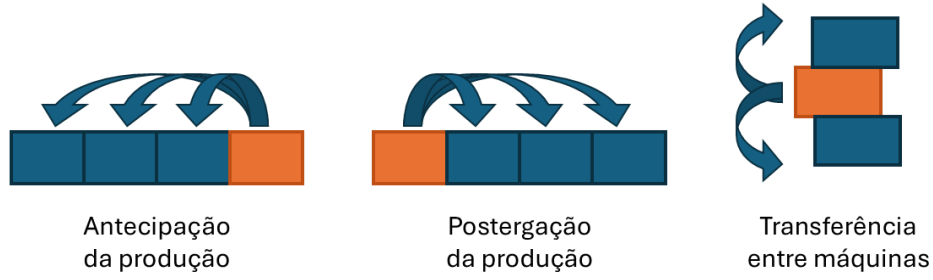


Figura 4.3: Representação das Estratégias de Transferência

Caso a folga $Folga_{jt'}$ seja nula (Linha 5), não há possibilidade de antecipação para aquela combinação (i, j, t') , e o valor máximo transferível $max_{ijt'}$ é definido como zero. Quando existe folga, verifica-se se o item i já está programado na máquina j no período t . Se for o caso, aplica-se a fórmula da Linha 8 para calcular a quantidade máxima que pode ser antecipada, considerando a folga e a violação de capacidade do período t' em relação ao tempo de produção $pt_{ijt'}$. Caso contrário, utiliza-se a fórmula da Linha 10, que desconta o tempo de *setup* $st_{ijt'}$ da folga e da violação antes de calcular a quantidade transferível. Após avaliar todas as combinações possíveis, seleciona-se a melhor transferência segundo o critério de melhoria da solução (Linha 16). A nova solução é, então, retornada na Linha 17.

Algoritmo 7 Heurística de viabilidade por antecipação ($sol, t, Folga$)

```

1: para  $i \in I$  faça
2:   para  $j \in K$  faça
3:     para  $t' = 1 : t - 1$  faça
4:       se  $Folga_{jt'} = 0$  então
5:          $max_{ijt'} \leftarrow 0$ 
6:       senão
7:         se  $y_{ijt} = 1$  então
8:            $max_{ijt'} \leftarrow \min\{Folga_{jt'}/pt_{ijt'}, VC_{jt'}/pt_{ijt'}\}$ 
9:         senão
10:           $max_{ijt'} \leftarrow \min\{(Folga_{jt'} - st_{ijt'})/pt_{ijt'}, (VC_{jt'} - st_{ijt'})/pt_{ijt'}\}$ 
11:        fim se
12:      fim se
13:    fim para
14:  fim para
15: fim para
16:  $sol \leftarrow$  a melhor transferência
17: retorne  $sol$ 

```

O Algoritmo 8 apresenta a heurística de postergação, aplicada quando não há folga em períodos anteriores ao período t analisado, mas existem períodos posteriores com folga disponível $Folga_{jt'}$. O procedimento percorre todos os itens $i \in I$ e máquinas $j \in K$, avaliando cada período futuro $t' \in [t + 1, m]$. Se a folga $Folga_{jt'}$ for nula (Linha 4), a quantidade máxima

transferível $max_{ijt'}$ é definida como zero, impossibilitando a postergação para aquela combinação (i, j, t') . Caso exista folga, verifica-se se o item i já está programado na máquina j no período t ; se sim, calcula-se o valor máximo transferível conforme a Linha 8, considerando o estoque disponível s_{it} , a folga e a violação de capacidade no período de destino. Caso contrário, utiliza-se a expressão da Linha 10, que desconta o tempo de *setup* $st_{ijt'}$ da folga e da violação antes de calcular a quantidade transferível. Após avaliar todas as possibilidades, seleciona-se a melhor transferência (Linha 16), e retorna-se a solução ajustada (Linha 17).

Algoritmo 8 Heurística de postergação ($sol, t, Folga$)

```

1: para  $i \in I$  faça
2:   para  $j \in K$  faça
3:     para  $t' = t + 1 : m$  faça
4:       se  $Folga_{jt'} = 0$  então
5:          $max_{ijt'} \leftarrow 0$ 
6:       senão
7:         se  $y_{it} = 1$  então
8:            $max_{ijt'} \leftarrow \min\{s_{it}, Folga_{jt'}/pt_{ijt'}, VC_{jt'}/pt_{ijt'}\}$ 
9:         senão
10:           $max_{ijt'} \leftarrow \min\{s_{it}, (Folga_{jt'} - st_{ijt'})/pt_{ijt'}, (VC_{jt'} - st_{ijt'})/pt_{ijt'}\}$ 
11:        fim se
12:      fim se
13:    fim para
14:  fim para
15: fim para
16:  $sol \leftarrow$  a melhor transferência
17: retorne  $sol$ 

```

O Algoritmo 9 apresenta a heurística de transferência entre máquinas, empregada quando existe violação de capacidade em uma máquina j no período t e outras máquinas $j' \neq j$ possuem disponibilidade nesse mesmo período. O procedimento percorre todos os itens $i \in I$ e máquinas $j \in K$, avaliando cada máquina candidata j' que disponha de folga. Caso a folga $Folga_{jt}$ seja nula (Linha 5), a quantidade máxima transferível $max_{ijj't}$ é definida como zero. Quando existe folga, verifica-se se o item i já está programado na máquina j no período t ; se sim, aplica-se a expressão da Linha 8 para calcular a quantidade transferível com base na produção atual x_{ijt} e na folga disponível na máquina de destino. Caso contrário, utiliza-se a fórmula da Linha 10, que desconta o tempo de *setup* $st_{ij't}$ antes de calcular o valor máximo possível de transferência. Após avaliar todas as combinações, seleciona-se a melhor transferência entre pares (i, j, t) e (i, j', t) (Linha 16), aplica-se a modificação na solução. Assim, aproveitando a disponibilidade da máquina de destino, a solução ajustada é então retornada (Linha 17).

Algoritmo 9 Heurística de viabilidade por transferência entre máquinas ($sol, t, Folga$)

```

1: para  $i \in I$  faça
2:   para  $j \in K$  faça  $\triangleright$  Máquina com violação de capacidade no período  $t$ 
3:     para  $j' \in K, j' \neq j$  faça  $\triangleright$  Máquinas candidatas com folga no período  $t$ 
4:       se  $Folga_{j't} = 0$  então
5:          $max_{ijj't} \leftarrow 0$ 
6:       senão
7:         se  $y_{ijt} = 1$  então
8:            $max_{ijj't} \leftarrow \min\{x_{ijt}, Folga_{j't}/pt_{ij't}\}$ 
9:         senão
10:           $max_{ijj't} \leftarrow \min\{x_{ijt}, (Folga_{j't} - st_{ij't})/pt_{ij't}\}$ 
11:        fim se
12:      fim se
13:    fim para
14:  fim para
15: fim para
16:  $sol \leftarrow$  a melhor transferência de  $(i, j, t)$  para  $(i, j', t)$ 
17: retorne  $sol$ 

```

HEURÍSTICA BASEADA EM PROGRAMAÇÃO LINEAR ($\mathcal{LP}$)

Se a solução permanecer inviável após as estratégias de transferência, são introduzidas as variáveis VD_{it} que mensuram violações de demanda, isso permite a resolução de uma versão relaxada do problema. Elas são incorporadas à função objetivo e à restrição de balanceamento de estoque da formulação compacta $\mathcal{F}$. Assim, a solução é penalizada por meio das variáveis VD na função objetivo através de um custo suficientemente grande, Φ . O problema relaxado é denominado Formulação com Violação de Demanda ($\mathcal{F}\text{-}\mathcal{VD}$), e segue da seguinte forma:

$$(\mathcal{F}\text{-}\mathcal{VD}) \quad \min \sum_{i \in I} \sum_{j \in K} \sum_{t \in T} (sc_{ijt} y_{ijt} + pc_{ijt} x_{ijt}) + \sum_{i \in I} \sum_{t \in T} hc_{it} s_{it} + \sum_{i \in I} \sum_{t \in T} \Phi VD_{it} \quad (4.1)$$

Sujeito a

$$s_{i,t-1} + \sum_{j \in K} x_{ijt} = d_{it} + s_{it} - VD_{it} \quad \forall i \in I; t \in T \quad (4.2)$$

$$(3.2), (3.4) - (3.7)$$

O Algoritmo 10 apresenta a $\mathcal{LP}$. Inicialmente, são adicionadas variáveis de violação de demanda VD_{it} ao modelo, permitindo que parte da demanda não atendida seja explicitamente representada (Linha 1). Em seguida, todas as variáveis de *setup* y são fixadas de acordo com a

solução inicial sol (Linha 2), e o modelo relaxado $\mathcal{F}\text{-}\mathcal{VD}$ é resolvido via $\mathcal{LP}$ (Linha 3). Enquanto a solução obtida não for inteira e o limite de tempo não for atingido (Linha 4), o procedimento *FixarSetups* é chamado para avaliar se novas configurações de *setups* podem reduzir as violações (Linha 5). A cada iteração, o modelo é novamente resolvido (Linha 6), e se a nova solução sol' apresentar valor de função objetivo inferior à melhor solução atual sol (Linha 7), esta é atualizada (Linha 8). O processo continua até que não haja mais melhorias ou o tempo máximo seja atingido. Por fim, a solução sol é retornada (Linha 11).

Algoritmo 10 $\mathcal{LP}(sol, t, \Phi)$

```

1: Adicionar variáveis de violação de demanda  $VD_{it}$ 
2: Fixar em  $\mathcal{F}\text{-}\mathcal{VD}$  todas as variáveis  $y$  de acordo com  $sol$ 
3:  $sol \leftarrow LP(\mathcal{F}\text{-}\mathcal{VD})$ 
4: enquanto  $sol$  não é inteiro e tempo decorrido  $t \leq t_{limit}$  faça
5:    $FixarSetups(\mathcal{F}\text{-}\mathcal{VD}, sol)$ 
6:    $sol' \leftarrow LP(\mathcal{F}\text{-}\mathcal{VD})$ 
7:   se  $sol' < sol$  então
8:      $sol \leftarrow sol'$ 
9:   fim se
10: fim enquanto
11: retorne  $sol$ 

```

Algoritmo 11 $FixarSetups(\mathcal{F}\text{-}\mathcal{VD}, sol)$

```

1:  $sol^* \leftarrow \emptyset$ 
2: para cada par  $(i, t)$  em que  $VD_{it} > 0$  faça
3:   se  $y_{ijt} = 0$  então
4:      $sol' \leftarrow LP(\mathcal{F}\text{-}\mathcal{VD} \cup \{y_{ijt} = 1\})$ 
5:     se  $sol' < sol^*$  então
6:        $sol^* \leftarrow sol'$ 
7:       Marcar  $y_{ijt}$  como a melhor opção para fixar
8:     fim se
9:   fim se
10: fim para
11: Fixar as variáveis  $y$  marcadas em  $\mathcal{F}\text{-}\mathcal{VD}$ 

```

O Algoritmo 11 descreve o procedimento do *FixarSetups*. Nele, os pares (i, t) são analisados se existe violação de demanda VD_{it} e, para cada um deles, é verificado se a abertura de um novo *setup* pode reduzir a violação. Quando não há *setup*, $y_{ijt} = 0$, em um período considerado (Linha 3), o algoritmo testa fixar tal variável no modelo relaxado (Linha 4) e resolve novamente o $\mathcal{LP}$. Caso a nova solução S' apresente um valor de função objetivo inferior ao melhor obtido até o momento (Linha 5), essa configuração é armazenada como a melhor opção S^* e marcada para ser fixada. Ao final do processo, todas as variáveis y selecionadas são fixadas no modelo (Linha 11).

4.1.4 VIOLAÇÕES DE CAPACIDADE

Nessa etapa da abordagem, caso a heurística de $\mathcal{LP}$ ainda não consiga viabilizar a solução, são adicionadas as variáveis de violações de capacidade VC_{jt} a formulação. No caso, as variáveis de violação de capacidade são incorporadas à função objetivo e à restrição de capacidade de $\mathcal{F}$. Dessa forma, a violação é penalizada por meio das variáveis VC na função objetivo, com um valor suficientemente grande, Ψ . O problema denominado Formulação com Violações de Capacidade ($\mathcal{F} - \mathcal{VC}$) se dá da seguinte forma:

$$(\mathcal{F}-\mathcal{VC}) \quad \min \sum_{i \in I} \sum_{j \in K} \sum_{t \in T} (sc_{ijt} y_{ijt} + pc_{ijt} x_{ijt}) + \sum_{i \in I} \sum_{t \in T} hc_{it} s_{it} + \sum_{j \in K} \sum_{t \in T} \Psi VC_{jt} \quad (4.3)$$

Sujeito a

$$\sum_{i \in I} (st_{ijt} y_{ijt} + pt_{ijt} x_{ijt}) \leq cap_{jt} + VC_{jt} \quad \forall j \in K, \forall t \in T \quad (4.4)$$

(3.3)–(3.7)

Com isso, torna-se possível aplicar as variantes da heurística de busca local $F\&O$.

4.2 HEURÍSTICAS DE BUSCA LOCAL

A heurística de busca local $F\&O$ funciona como um procedimento de melhoria que, de forma semelhante à heurística $R\&F$, resolve subproblemas menores a cada iteração. Esses subproblemas são definidos pela divisão das variáveis em dois subconjuntos: (i) um subconjunto de variáveis que são fixadas com base em uma solução viável; e (ii) um subconjunto de variáveis que permanecem com restrição de integralidade. Ao longo do procedimento, ambos os subconjuntos são modificados a cada iteração.

Essa abordagem garante que todas as soluções geradas sejam inteiras, e o procedimento é encerrado quando todas as variáveis forem consideradas para melhoria ou quando um limite de tempo for atingido. No que diz respeito à heurística $F\&O$, são considerados dois paradigmas distintos: o estático ($F\&O$) e o dinâmico ($F\&O$ dinâmico).

As heurísticas que descrevem ambos os paradigmas estão descritas para o $F\&O$ no Algoritmo 12 e $F\&O$ dinâmico no Algoritmo 13, respectivamente, os quais recebem uma solução

inicial como entrada.

4.2.1 *FIX-AND-OPIMIZE* ESTÁTICO (*F&O*)

Para a abordagem *F&O*, a partir da formulação $\mathcal{F}$ (ou $\mathcal{F} - \mathcal{VC}$, se houver violação de capacidade) uma formulação restrita $\mathcal{F}_{FO}^{\alpha,\beta}(sol)$ é resolvida por um resolvidor de MILP a cada iteração. Nesse problema restrito: (i) as variáveis y de $\mathcal{F}$ com índices $t \in [\alpha, \beta]$ mantêm a exigência de integralidade e são otimizadas, enquanto (ii) as demais variáveis y são fixadas de acordo com uma solução viável sol .

Após cada iteração, a janela $[\alpha, \beta]$ é deslocada em k' períodos. O *round* consiste em uma sequência de iterações nas quais a janela $[\alpha, \beta]$ percorre todo o horizonte de planejamento. O procedimento é encerrado quando o limite de tempo é atingido ou, ao final do *round*, nenhuma melhoria é obtida. Caso uma solução melhor seja encontrada durante o *round*, a janela $[\alpha, \beta]$ é reinicializada no final e o procedimento recomeça. Esse processo está descrito no Algoritmo 12.

O Algoritmo 12 recebe como entrada a formulação $\mathcal{F}$, uma solução viável inteira sol , os valores de tamanho da janela k , passo de deslocamento k' , o tempo limite t_{lim} e o tempo limite para resolução de um subproblema t_{lim_sub} . Na Linha 1, a melhor solução conhecida sol^* é inicializada com a solução de entrada sol . As Linhas 2–11 definem um *round* do procedimento. No início de cada *round*, os valores de α e β são reinicializados (Linha 3). Durante cada iteração (Linhas 4–10), resolve-se a formulação restrita $\mathcal{F}_{FO}^{\alpha,\beta}(sol)$ utilizando um resolvidor de MILP (Linha 5). Se a nova solução for melhor que a melhor conhecida, esta é atualizada (Linha 7). Em seguida, a janela $[\alpha, \beta]$ é deslocada pelo valor de passo k' (Linha 9). Por fim, quando não há melhora ao final de *round* ou o tempo limite é atingido, o procedimento retorna a melhor solução conhecida sol^* (Linha 12).

Algoritmo 12 *F&O* ($\mathcal{F}$, sol , k , k' , t_{lim} , t_{lim_sub})

```

1:  $sol^* \leftarrow sol$ 
2: enquanto  $t_{elapsed} < t_{lim}$  ou  $sol^*$  não foi melhorado na rodada atual faça
3:    $\alpha \leftarrow 1$ ,  $\beta \leftarrow \alpha + k - 1$ 
4:   enquanto  $t_{elapsed} < t_{lim}$  e  $\beta < m$  faça
5:      $sol \leftarrow \text{MILP}(\mathcal{F}_{FO}^{\alpha,\beta}(sol^*), t_{lim\_sub})$ 
6:     se  $f(sol) < f(sol^*)$  então
7:        $sol^* \leftarrow sol$ 
8:     fim se
9:      $\alpha \leftarrow \alpha + k'$ ,  $\beta \leftarrow \min\{\alpha + k - 1, m\}$ 
10:  fim enquanto
11: fim enquanto
12: retorne  $sol^*$ 

```

O funcionamento do *F&O* é dado na Figura 4.4 a seguir, onde utiliza um exemplo simplificado com 12 períodos.

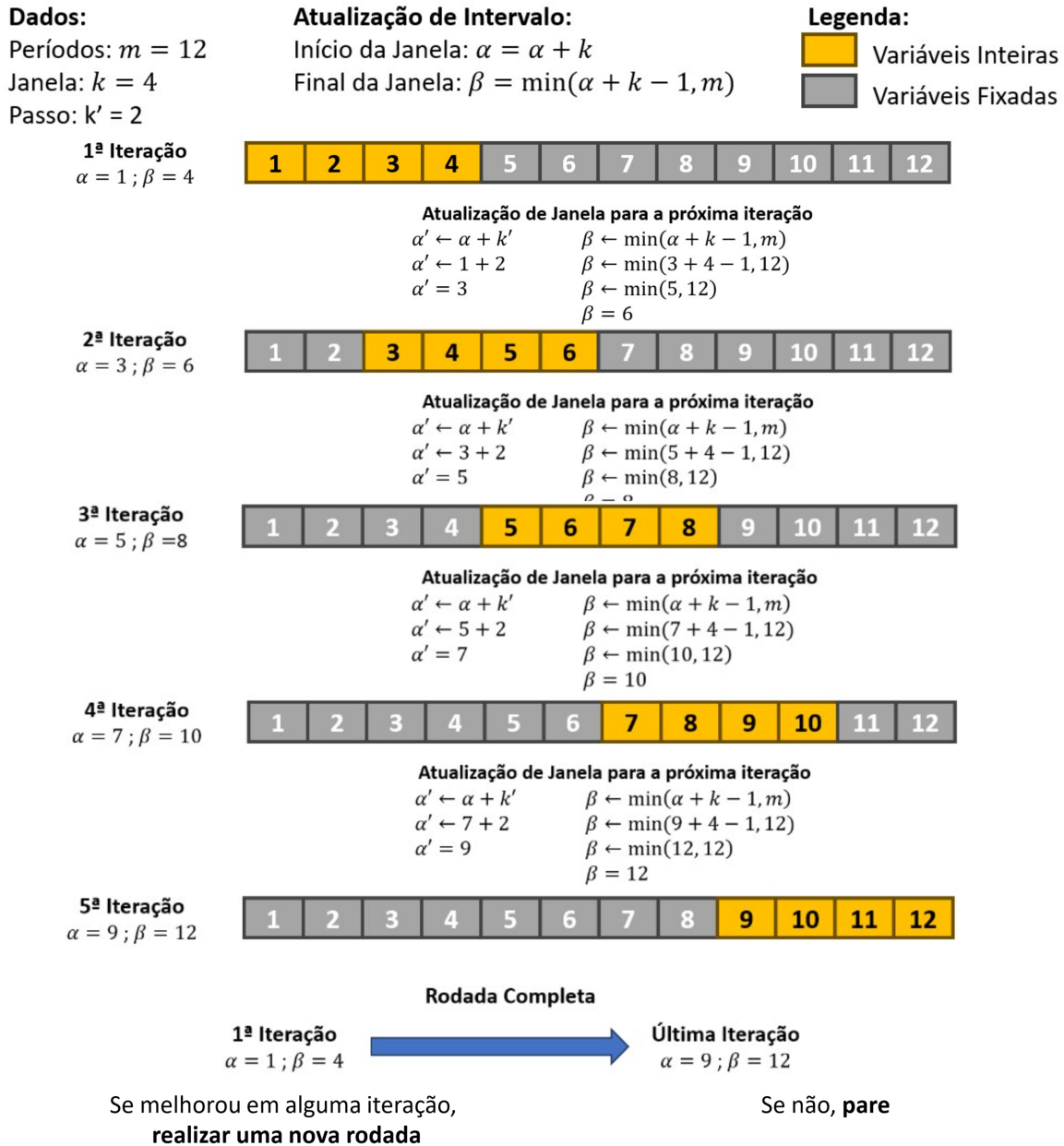


Figura 4.4: Exemplo do *F&O*

4.2.2 *FIX-AND-OPIMIZE* DINÂMICO (*F&O* dinâmico)

Conforme apresentado anteriormente, a abordagem *F&O* (Algoritmo 12) é finalizada quando o limite de tempo é atingido ou quando a melhor solução conhecida não é melhorada ao final de um *round*. No entanto, embora esses critérios de parada sejam intuitivos, eles podem, em alguns casos, fazer com que o procedimento seja encerrado de forma prematura. Devido à

limitação imposta pelo tamanho da janela, as possibilidades de melhoria podem ser excessivamente restritas, impedindo que soluções superiores sejam encontradas, mesmo quando ainda há tempo computacional disponível.

Nesse contexto, a abordagem *F&O dinâmico* é proposta com o objetivo de contornar essa limitação, permitindo o ajuste dinâmico do tamanho da janela k e do passo k' sempre que nenhuma melhoria for observada ao final de um *round*. Ao permitir a expansão da janela, o método amplia a capacidade de escapar de ótimos locais e explorar melhor o espaço de soluções. Contudo, aumentar o tamanho da janela torna cada iteração mais custosa do ponto de vista computacional, já que mais variáveis binárias precisam ser consideradas no processo de otimização.

Um aspecto relevante no contexto da *F&O dinâmico* é o conceito de *window overlapping*, definido como o número de períodos compartilhados entre duas janelas consecutivas de iterações, calculado por $overlap = k - k'$. Um valor maior de *overlapping* permite uma reconstrução mais ampla da solução gerada na iteração anterior. Por outro lado, um *overlapping* menor reduz o número de iterações por *round*, diminuindo assim o esforço computacional.

A abordagem *F&O dinâmico* é descrita no Algoritmo 13. Além dos parâmetros $\mathcal{F}$, sol , k , k' , t_{lim} e t_{lim_sub} , já utilizados no Algoritmo 12, quatro parâmetros adicionais são considerados: ni_rnd_{lim} , $overlap_{lim}$, inc e inc' .

O parâmetro ni_rnd_{lim} define o número máximo de *rounds* consecutivos que podem ser executados sem melhora na melhor solução conhecida sol^* . O parâmetro $overlap_{lim}$ determina quando o passo k' deverá ser ajustado. Já os parâmetros inc e inc' especificam os incrementos aplicados ao tamanho da janela k e ao passo k' , respectivamente.

O método começa com a inicialização da melhor solução conhecida sol^* com a solução de entrada sol (Linha 1). Em seguida, duas variáveis auxiliares, k_0 e k'_0 , são inicializadas com os valores originais de k e k' (Linha 2), com o objetivo de armazenar esses valores iniciais. A variável auxiliar ni_rnd contabiliza o número de *rounds* consecutivas sem melhoria, sendo iniciada com zero na Linha 3. Por fim, a variável auxiliar *melhorou* atua como um indicador lógico que sinaliza se houve melhora na solução durante o *round* atual, sendo iniciada como FALSO na Linha 5.

Para evitar uma finalização precoce, o Algoritmo 13 introduz um novo critério de parada, embora continue sujeito ao limite de tempo t_{lim} . O procedimento é encerrado se forem realizadas ni_rnd_{lim} *rounds* consecutivas sem que a melhor solução conhecida sol^* seja melhorada.

Um *round* do método é descrita nas Linhas 4–22. No início de cada *round*, os valores de

Algoritmo 13 *F&O dinâmico* ($\mathcal{F}$, sol , k , k' , ni_rnd_{lim} , $overlap_{lim}$, inc , inc' , t_{lim} , t_{lim_sub})

```

1:  $sol^* \leftarrow sol$ 
2:  $k_0 \leftarrow k$ ,  $k'_0 \leftarrow k'$ ,  $overlap \leftarrow k - k'$ 
3:  $ni\_rnd \leftarrow 0$ 
4: enquanto  $t_{elapsed} < t_{lim}$  e  $ni\_rnd < ni\_rnd_{lim}$  faça
5:    $\alpha \leftarrow 1$ ,  $\beta \leftarrow \alpha + k - 1$ ,  $melhorou \leftarrow \text{FALSO}$ 
6:   enquanto  $t_{elapsed} < t_{lim}$  e  $\beta < m$  faça
7:      $sol \leftarrow \text{MILP}(\mathcal{F}_{FO}^{\alpha, \beta}(sol^*), t_{lim\_sub})$ 
8:     se  $f(sol) < f(sol^*)$  então
9:        $sol^* \leftarrow S$ ,  $ni\_rnd \leftarrow 0$ ,  $melhorou \leftarrow \text{VERDADEIRO}$ 
10:    fim se
11:     $\alpha \leftarrow \alpha + k'$ ,  $\beta \leftarrow \min\{\alpha + k - 1, m\}$ 
12:  fim enquanto
13:  se  $melhorou = \text{FALSO}$  então
14:     $ni\_rnd \leftarrow ni\_rnd + 1$ 
15:     $k \leftarrow k + inc$ ,  $overlap \leftarrow k - k'$ 
16:    se  $overlap > overlap_{lim}$  então
17:       $k' \leftarrow k' + inc'$ 
18:    fim se
19:  senão
20:     $k \leftarrow k_0$ ,  $k' \leftarrow k'_0$ 
21:  fim se
22: fim enquanto
23: retorne  $sol^*$ 

```

α e β são reinicializados (Linha 5). Cada iteração está associada a uma janela $[\alpha, \beta]$ e é definida pelo laço entre as Linhas 6–12. Se a nova solução sol encontrada for melhor do que a melhor solução conhecida sol^* , esta é atualizada (Linha 9) e a janela $[\alpha, \beta]$ é deslocada com base no valor do passo k' (Linha 11).

Ao final do *round*, se a variável $melhorou$ for igual a FALSO, indicando que a solução sol^* não foi melhorada ao longo daquele *round* (Linha 13), o contador ni_rnd é incrementado em uma unidade, e o tamanho atual da janela k é aumentado em inc . Caso a diferença resultante entre k e o passo k' (denotada por $overlap$) seja inferior a $overlap_{lim}$, então o passo k' também é aumentado em inc' .

Se, por outro lado, a melhor solução sol^* for melhorada durante o *round* (Linha 13), os valores de k e k' são reinicializados com seus valores originais, k_0 e k'_0 , respectivamente.

O método continua até que o tempo limite t_{lim} seja atingido ou que o número máximo de *rounds* sem melhoria ni_rnd_{lim} seja alcançado, retornando, então, a melhor solução conhecida sol^* (Linha 22).

Como no *F&O* um exemplo com um problema simplificado com horizonte de planejamento de 12 períodos é apresentado. Dividido em duas partes, onde a Figura 4.5 o algoritmo possui o funcionamento padrão do *F&O* variando apenas na decisão ao final da rodada. Já na

Figura 4.6 há a atualização no tamanho da janela (k), entretanto, bem como é feito o teste para a atualização do tamanho do passo (k') para demonstrar a regra de *overlap* nesse caso.

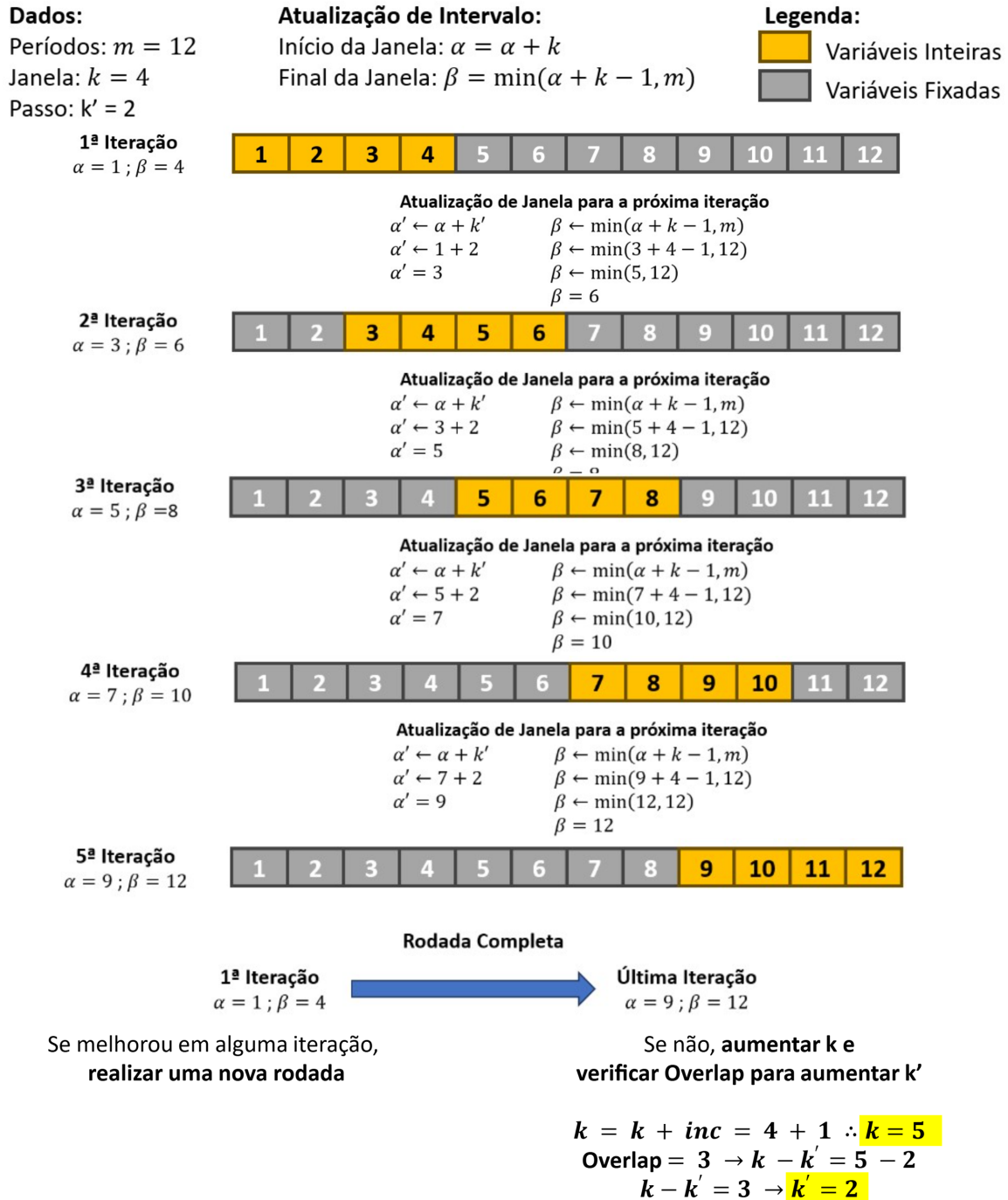


Figura 4.5: Parte I - Exemplo do *F&O* dinâmico

Dados:Períodos: $m = 12$ Janela: $k = 5$ Passo: $k' = 2$

Overlap = 3

Atualização de Intervalo:Início da Janela: $\alpha = \alpha + k$ Final da Janela: $\beta = \min(\alpha + k - 1, m)$ **Legenda:** Variáveis Inteiras Variáveis Fixadas**1ª Iteração** $\alpha = 1 ; \beta = 5$ **Atualização de Janela para a próxima iteração**

$$\begin{aligned} \alpha' &\leftarrow \alpha + k' & \beta &\leftarrow \min(\alpha + k - 1, m) \\ \alpha' &\leftarrow 1 + 2 & \beta &\leftarrow \min(3 + 5 - 1, 12) \\ \alpha' &= 3 & \beta &\leftarrow \min(7, 12) \\ & & \beta &= 7 \end{aligned}$$

2ª Iteração $\alpha = 3 ; \beta = 7$ **Atualização de Janela para a próxima iteração**

$$\begin{aligned} \alpha' &\leftarrow \alpha + k' & \beta &\leftarrow \min(\alpha + k - 1, m) \\ \alpha' &\leftarrow 3 + 2 & \beta &\leftarrow \min(5 + 5 - 1, 12) \\ \alpha' &= 5 & \beta &\leftarrow \min(9, 12) \\ & & \beta &= 9 \end{aligned}$$

3ª Iteração $\alpha = 5 ; \beta = 9$ **Atualização de Janela para a próxima iteração**

$$\begin{aligned} \alpha' &\leftarrow \alpha + k' & \beta &\leftarrow \min(\alpha + k - 1, m) \\ \alpha' &\leftarrow 5 + 2 & \beta &\leftarrow \min(7 + 5 - 1, 12) \\ \alpha' &= 7 & \beta &\leftarrow \min(11, 12) \\ & & \beta &= 11 \end{aligned}$$

4ª Iteração $\alpha = 7 ; \beta = 11$ **Atualização de Janela para a próxima iteração**

$$\begin{aligned} \alpha' &\leftarrow \alpha + k' & \beta &\leftarrow \min(\alpha + k - 1, m) \\ \alpha' &\leftarrow 7 + 2 & \beta &\leftarrow \min(9 + 5 - 1, 12) \\ \alpha' &= 9 & \beta &\leftarrow \min(13, 12) \\ & & \beta &= 12 \end{aligned}$$

5ª Iteração $\alpha = 9 ; \beta = 12$ **Rodada Completa****1ª Iteração** $\alpha = 1 ; \beta = 5$ **Última Iteração** $\alpha = 9 ; \beta = 12$

Se melhorou em alguma iteração,
realizar uma nova rodada com k e k' originais

Se não, **pode rodar novamente?**

Se sim, **aumentar k e verificar Overlap
para aumentar k'**

Se não, **pare**

Figura 4.6: Parte II - Exemplo do *F&O* dinâmico

4.3 FLUXOGRAMA COMPLETO

A Figura 4.7 apresenta o fluxograma geral desenvolvido neste trabalho, o qual integra todas as heurísticas propostas para a resolução do CLSP-PM. Esse esquema sintetiza o funcionamento e a interação entre os componentes do método, desde a construção da solução inicial até as etapas de viabilização e melhoria por busca local.

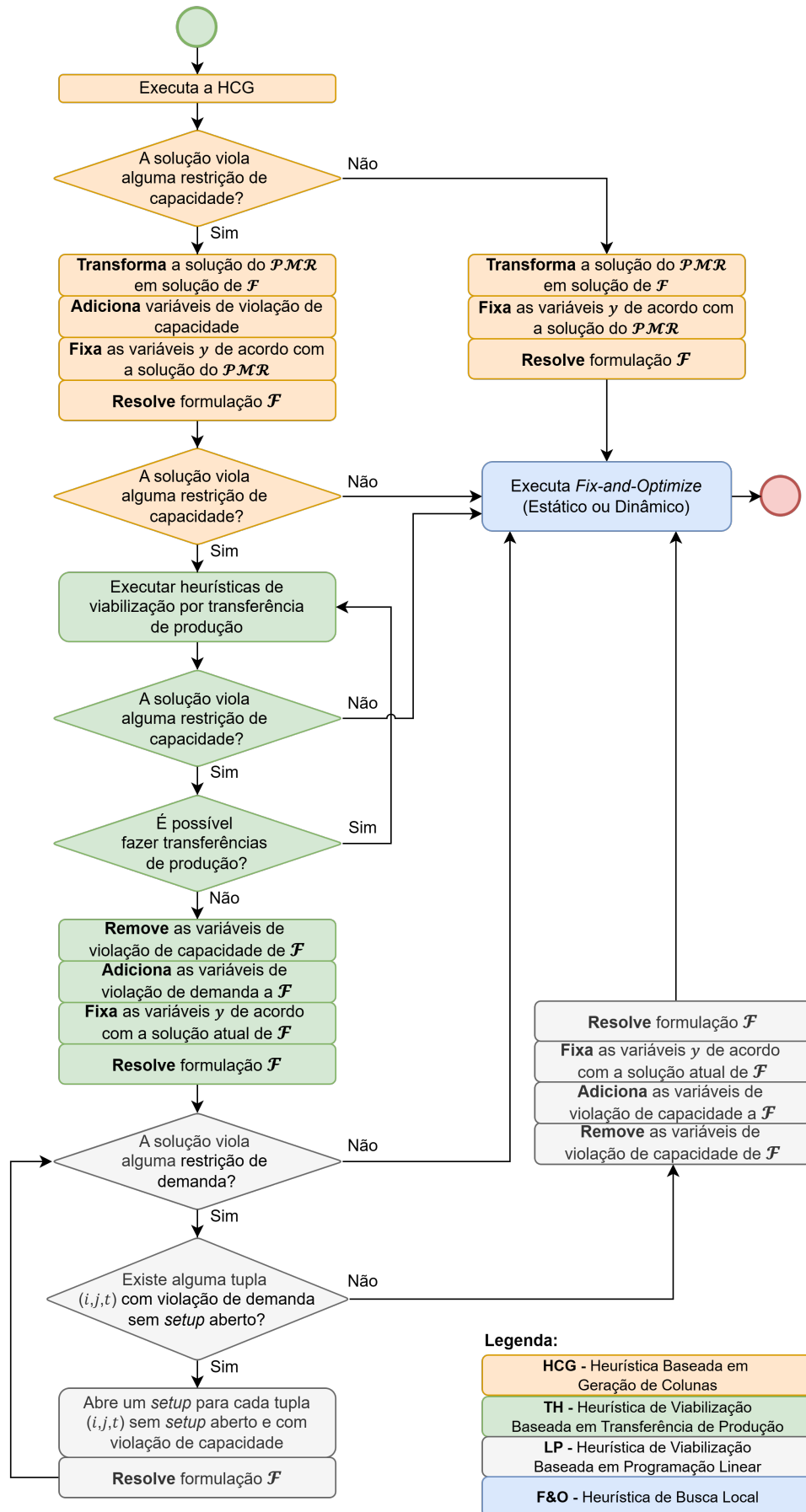


Figura 4.7: Fluxograma Completo do Método Proposto

5 RESULTADOS COMPUTACIONAIS

Esse capítulo apresenta os resultados experimentais obtidos com as abordagens propostas para o CLSP-PM, onde os experimentos são divididos em três grupos principais. No primeiro grupo, se avalia o desempenho da heurística $R\&F$ combinada com $F\&O$, compondo o $RF\&FO$, e com a variante dinâmica, $RF\&FO$ *dinâmico*. No segundo, o foco se dá no HCG combinado com $F\&O$, com e sem PD na resolução dos subproblemas de *pricing*. E, por fim, o terceiro grupo estende o HGC com e sem PD na resolução dos subproblemas de *pricing*, além da heurística de viabilização (TH) e $F\&O$, nas versões estática e dinâmica. A tabela abaixo define as abordagens utilizadas em cada rodada:

Tabela 5.1: Heurísticas utilizadas nas rodadas

Rodada	Abordagem	$R\&F$	HCG	PD	TH	$F\&O$	$F\&O_{Dinamico}$
1	$RF\&FO$	X	-	-	-	X	-
	$RF\&FO$ <i>dinâmico</i>	X	-	-	-	-	X
2	$HCG_{pd}FO$	-	X	X	-	X	-
	$HCGFO$	-	X	-	-	X	-
	$HCG_{pd}FO_{din}$	-	X	X	-	-	X
	$HCGFO_{din}$	-	X	-	-	-	X
3	$HCG_{pd}THFO$	-	X	X	X	X	-
	$HCG_{pd}THFO_{din}$	-	X	X	X	-	X
	$HCGTHFO$	-	X	-	X	X	-
	$HCGTHFO_{din}$	-	X	-	X	-	X

5.1 AMBIENTE COMPUTACIONAL

Os experimentos foram realizados em um computador com processador Intel® Core™ i3-10100T, 8 GB de memória RAM e sistema operacional Windows 11. A implementação dos algoritmos foi desenvolvida na linguagem de programação Julia (v1.9.4), com o uso do pacote JuMP (v1.20) para modelagem matemática. Utilizou-se o resolvidor Gurobi Acadêmico (v10.0) para resolução dos MILP e LP. Todos os métodos foram executados em apenas um *thread* do processador, mantendo os demais parâmetros do resolvidor em seus valores padrão, exceto pela tolerância relativa de otimalidade, fixada em 10^{-8} , e pela tolerância de integralidade das variáveis, definida em 10^{-6} .

5.2 DESCRIÇÃO DAS INSTÂNCIAS

Nos experimentos, foram utilizadas as instâncias propostas por Toledo e Armentano (2006). Essas instâncias possuem as seguintes características: $n \in \{6, 12, 25, 50\}$ itens, $r \in \{2, 4, 6\}$ máquinas, e $m \in \{6, 12, 18\}$ períodos.

As instâncias são organizadas em oito classes distintas, definidas pela combinação de três fatores: (i) especificação da capacidade (NC: capacidade normal / TC: capacidade apertada), (ii) custo de *setup* (HS: custo alto / LS: custo baixo), (iii) tempo de *setup* (HT: tempo alto / LT: tempo baixo).

Cada classe contém 10 instâncias para todas as combinações possíveis de n , r e m ($4 \times 3 \times 3$), resultando em 360 instâncias por classe e um total de 2.880 instâncias ($10 \times 8 \times 36$).

Um resumo das classes é apresentado na Tabela 5.2, na qual cada uma é identificada por uma sigla específica.

Tabela 5.2: Classes das Instâncias

Classe	Capacidade	Custo de <i>Setup</i>	Tempo de <i>Setup</i>
NCHSHT	Normal	Alto	Alto
NCHSLT	Normal	Alto	Baixo
NCLSHT	Normal	Baixo	Alto
NCLSLT	Normal	Baixo	Baixo
TCHSHT	Apertada	Alto	Alto
TCHSLT	Apertada	Alto	Baixo
TCLSHT	Apertada	Baixo	Alto
TCLSLT	Apertada	Baixo	Baixo

Fonte: Adaptado de Toledo e Armentano (2006)

Do total de 2.880 instâncias, 26 foram classificadas como inviáveis a partir da resolução da formulação $\mathcal{F}$ em um *solver* comercial. Assim, a análise considera 2.854 instâncias viáveis.

MÉTRICAS DE COMPARAÇÃO

Para a avaliação das abordagens foram considerados dois parâmetros principais: o *gap* de otimalidade e o tempo de CPU.

O *gap* representa a diferença percentual entre o limite superior (LS), que corresponde ao valor da melhor solução encontrada, e o limite inferior (LI), associado ao melhor valor de relaxação obtido.

Nas variantes do *RF&FO*, o LI foi obtido a partir da formulação compacta resolvida por um *solver* comercial, com tempo limite de 600 segundos. Já as demais abordagens são capazes

de calcular diretamente tanto o LS quanto o LI pelo próprio método. No entanto, por se tratarem de ótimos locais, o LI considerado para avaliar o desempenho dessas heurísticas também foi o obtido pela formulação compacta resolvida pelo *solver* comercial em 600 segundos.

Portanto, o cálculo do *gap* percentual segue a expressão:

$$gap = 100 \times \frac{LS - LI_{\mathcal{F}}}{LS} \quad (5.1)$$

O segundo parâmetro considerado foi o tempo de CPU, medido em segundos, contabilizando o tempo total gasto pelo método para resolver cada instância dentro do limite estipulado.

5.3 PARAMETRIZAÇÃO

Em todos os experimentos, foi estabelecido um tempo limite (t_{lim}) de 600 segundos para a resolução de cada instância. Para os métodos $R\&F$ e variantes do $F\&O$ definiu-se ainda um tempo limite por iteração (t_{lim_sub}) de 10 segundos.

Nesses métodos, o tamanho da janela foi definido como $k = \max(2, \lfloor m/4 \rfloor)$ e o passo como $k' = \lceil k/2 \rceil$. Especificamente para o método $F\&O$ dinâmico, foram utilizados os seguintes parâmetros: $ni\_rnd_{lim} = 2$ (número máximo de iterações consecutivas sem melhora na melhor solução encontrada), $overlap_{lim} = 2$ (diferença máxima permitida entre duas janelas consecutivas), $inc = 1$ (incremento no tamanho da janela) e $inc' = 1$ (incremento no incremento da janela).

Esses parâmetros foram definidos a partir de três diferentes combinações de k e k' com base no número de períodos m . Os testes foram realizados com as classes NCHSHT e NCLSHT com os mesmos parâmetros de tempo utilizando a combinação $RF\&FO$.

A Tabela 5.3 registra os parâmetros usados em cada configuração: o tamanho da janela k e o passo k' , em função do número de períodos $t \in \{6, 12, 18\}$. Essa tabela não traz métricas de desempenho; ela serve como referência de parametrização e comparação dos experimentos entre as três configurações.

Tabela 5.3: Configurações de janela e passo por método e número de períodos

m	Configuração 1		Configuração 2		Configuração 3	
	k	k'	k	k'	k	k'
6	2	1	3	1	3	2
12	3	1	3	1	4	2
18	3	2	4	2	4	2

A Tabela 5.4 abaixo compara as três configurações por classe e por número de períodos

$m \in \{6, 12, 18\}$. Para cada configuração são exibidos o $gap_{\text{médio}}$ (%), o tempo máximo t_{max} (s) e o tempo médio $t_{\text{médio}}$ (s). As linhas com o nome da classe (NCHSHT, NCLSHT) sintetizam os resultados e as linhas seguintes detalham o comportamento para cada valor de m . Os destaques em negrito indicam, dentro de cada linha, o melhor *trade-off* de desempenho observado entre gap e tempo considerados.

Tabela 5.4: Comparativo entre Configurações de k e k'

Classe	Configuração 1			Configuração 2			Configuração 3		
	$gap_{\text{médio}}$ (%)	t_{max} (s)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	t_{max} (s)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	t_{max} (s)	$t_{\text{médio}}$ (s)
NCHSHT	0,40	340,51	54,32	0,30	353,63	68,96	0,28	338,22	70,72
6	0,30	242,77	26,76	0,09	318,52	44,05	0,09	242,32	41,38
12	0,40	340,51	59,52	0,39	320,38	57,81	0,31	322,95	75,15
18	0,49	335,44	76,68	0,43	353,63	105,02	0,45	338,22	95,62
NCLSHT	0,01	145,40	12,30	0,01	174,84	16,01	0,01	202,46	15,54
6	0,01	59,29	4,24	0,00	81,96	5,64	0,00	80,16	5,11
12	0,01	145,40	13,16	0,01	126,39	12,94	0,00	202,46	17,61
18	0,02	120,87	19,51	0,01	174,84	29,44	0,02	191,94	23,88

Assim, foram determinados as regras dos parâmetros para os experimentos computacionais, as quais seguem a lógica em que o tamanho da janela é dado por $k = \max(2, \lfloor m/4 \rfloor)$ e o passo como $k' = \lceil k/2 \rceil$. Vale ressaltar que todos os parâmetros presentes para as variantes do *F&O* foram os mesmos para todas as demais heurísticas.

5.3.1 RODADA 01 - *RF&FO* e *RF&FO dinâmico*

Nesta rodada, apresenta-se uma análise comparativa do desempenho computacional das abordagens *RF&FO* e *RF&FO dinâmico* na resolução do CLSP-PM. A Tabela 5.5 resume, para cada classe de instância, os seguintes indicadores: (i) número de soluções ótimas encontradas (coluna OPT); (ii) gap percentual médio (coluna $gap_{\text{médio}}$); (iii) gap percentual máximo (coluna gap_{max}); e (iv) tempo médio de execução (coluna $t_{\text{médio}}$) em segundos.

A partir da Tabela 5.5, observa-se que o *RF&FO dinâmico* obteve 489 soluções ótimas, um aumento de aproximadamente 40% em relação às 349 soluções ótimas encontradas pelo *RF&FO*. Nas demais instâncias, o *RF&FO dinâmico* também apresentou menor gap médio (0,42%) em comparação ao *RF&FO* (0,51%), sendo que ambas atingiram o mesmo gap máximo de 4,76%. Esses resultados indicam que a versão dinâmica apresenta melhor desempenho em termos de qualidade da solução. Ao analisar as classes de instâncias individualmente, nota-se que os maiores valores de gap para ambas as abordagens ocorrem nos casos com custos de *setup* elevados (HS), especialmente quando combinados com tempos de *setup* altos (HT).

Tabela 5.5: Rodada 01 - Comparação entre *RF&FO* e *RF&FO dinâmico*

Classe	<i>RF&FO</i>				<i>RF&FO dinâmico</i>			
	OPT	$gap_{\text{médio}}$ (%)	gap_{max} (%)	$t_{\text{médio}}$ (s)	OPT	$gap_{\text{médio}}$ (%)	gap_{max} (%)	$t_{\text{médio}}$ (s)
NCHSHT	11	0,72	4,52	17,64	14	0,60	4,52	30,34
NCHSLT	9	0,95	3,92	28,68	10	0,79	3,92	51,73
NCLSHT	94	0,04	0,37	4,94	130	0,03	0,37	7,97
NCLSLT	71	0,06	0,44	14,01	107	0,05	0,39	24,47
TCHSHT	15	0,93	4,76	29,07	18	0,77	4,76	47,49
TCHSLT	10	1,20	4,19	50,00	16	1,02	4,01	81,90
TCLSHT	79	0,06	0,44	11,31	112	0,05	0,44	18,35
TCLSLT	60	0,10	0,66	34,88	82	0,09	0,59	51,21
Total	349	0,51	4,76	23,74	489	0,42	4,76	39,07

Nas classes NCHSHT e TCHSHT, por exemplo, foram registrados *gaps* máximos de 4,52% e 4,76%, respectivamente. Em contrapartida, os menores *gaps* médios ocorreram nas classes com custos de *setup* baixos (LS), como NCLSHT e TCLSHT, reforçando que o custo de *setup* é um fator relevante para a complexidade do problema. Quanto ao esforço computacional, o *RF&FO* apresentou tempo médio inferior (23,74 s) em relação à *RF&FO dinâmico* (39,07 s). Essa diferença é explicada pelo processo adaptativo do *RF&FO dinâmico*, que ajusta dinamicamente o tamanho da janela para explorar regiões maiores do espaço de soluções, exigindo mais tempo de processamento. Ainda assim, o tempo médio do *RF&FO dinâmico* mantém-se competitivo e é compensado pela melhor qualidade das soluções e pelo maior número de ótimos encontrados.

Os resultados detalhados em função das dimensões das instâncias estão apresentados na Tabela 5.6. Esses dados permitem avaliar o impacto do número de períodos (m), do número de máquinas (r) e do número de itens (n) tanto no número de instâncias melhoradas pelo *RF&FO dinâmico* em relação à *RF&FO* (coluna *Melhoria do resultado*), quanto na qualidade das soluções (colunas $gap_{\text{médio}}$ (%) e gap_{max} (%)) obtidas por cada abordagem.

No caso do número de períodos (m), apenas uma instância foi melhorada pelo *RF&FO dinâmico* quando $m = 6$, o que indica que, para horizontes de planejamento curtos, ambas as abordagens apresentam desempenho semelhante. Com o aumento para $m = 12$, observa-se uma melhora expressiva, com 676 instâncias apresentando resultados superiores pelo *RF&FO dinâmico*. Para $m = 18$, o número de melhorias é ligeiramente menor que para $m = 12$, mas ainda significativo (490 instâncias melhoradas).

Quanto ao número de máquinas (r), observa-se que para $r = 2$ o número de melhorias é relativamente baixo. À medida que r aumenta para 4 e 6, o número de melhorias cresce, ainda mais nos casos com $m = 12$ e $m = 18$. Isso sugere que, com mais máquinas disponíveis, o

Tabela 5.6: Comparação Analítica entre *RF&FO* e *RF&FO dinâmico*

m / r / n	Número de instâncias	Melhoria do resultado	<i>RF&FO</i>		<i>RF&FO dinâmico</i>	
			$gap_{\text{médio}}$ (%)	gap_{max} (%)	$gap_{\text{médio}}$ (%)	gap_{max} (%)
m = 6	956	1	0,49	4,76	0,49	4,76
r = 2	318	0	0,42	4,76	0,42	4,76
n = 6	78	0	0,77	4,76	0,77	4,76
n = 12	80	0	0,36	2,96	0,36	2,96
n = 25	80	0	0,33	1,40	0,33	1,40
n = 50	80	0	0,22	0,93	0,22	0,93
r = 4	320	0	0,50	4,52	0,50	4,52
n = 6	80	0	0,65	4,52	0,65	4,52
n = 12	80	0	0,61	4,01	0,61	4,01
n = 25	80	0	0,46	1,76	0,46	1,76
n = 50	80	0	0,30	1,27	0,30	1,27
r = 6	318	1	0,54	3,89	0,54	3,89
n = 6	78	0	0,78	3,89	0,78	3,89
n = 12	80	0	0,48	2,66	0,48	2,66
n = 25	80	0	0,52	1,96	0,53	1,96
n = 50	80	1	0,39	1,58	0,39	1,58
m = 12	954	676	0,57	4,19	0,39	2,45
r = 2	316	222	0,53	3,45	0,34	2,45
n = 6	76	37	0,78	3,45	0,47	2,45
n = 12	80	48	0,54	3,43	0,34	2,28
n = 25	80	64	0,52	2,44	0,37	1,55
n = 50	80	73	0,29	1,26	0,19	1,26
r = 4	320	224	0,55	3,98	0,36	2,28
n = 6	80	35	0,59	2,85	0,34	2,28
n = 12	80	52	0,77	3,98	0,47	2,23
n = 25	80	64	0,52	2,63	0,41	1,79
n = 50	80	73	0,32	1,24	0,24	0,99
r = 6	318	230	0,65	4,19	0,45	2,40
n = 6	78	40	0,64	3,03	0,41	2,40
n = 12	80	55	0,72	4,19	0,45	2,10
n = 25	80	63	0,81	2,67	0,63	2,14
n = 50	80	72	0,42	1,63	0,33	1,57
m = 18	944	490	0,46	3,10	0,40	3,10
r = 2	310	158	0,42	3,10	0,36	3,10
n = 6	74	18	0,56	3,10	0,50	3,10
n = 12	76	35	0,53	2,34	0,43	2,34
n = 25	80	49	0,42	1,89	0,34	1,49
n = 50	80	56	0,20	0,65	0,17	0,66
r = 4	320	157	0,42	2,64	0,36	2,02
n = 6	80	29	0,35	1,74	0,27	1,53
n = 12	80	34	0,63	2,64	0,56	2,02
n = 25	80	41	0,47	1,88	0,41	1,81
n = 50	80	53	0,24	1,04	0,22	0,86
r = 6	314	175	0,53	3,06	0,47	3,05
n = 6	74	30	0,45	2,66	0,37	2,66
n = 12	80	43	0,65	3,06	0,57	3,05
n = 25	80	44	0,66	2,22	0,62	1,95
n = 50	80	58	0,34	1,43	0,32	1,36
Total	2.854	1.167	0,51	4,76	0,42	4,76

comportamento adaptativo do *RF&FO dinâmico* tende a gerar soluções de melhor qualidade.

O número de itens (n) também exerce forte influência no desempenho. Verifica-se que o número de melhorias aumenta conforme cresce o número de itens, sendo que cerca de 61% das instâncias melhoradas possuem $n = 25$ ou $n = 50$. Para instâncias menores ($n = 6$ e $n = 12$), o número de melhorias é reduzido. À medida que n aumenta para 25 e 50, mais instâncias apresentam ganhos, especialmente quando combinados com $m = 12$ e $m = 18$. Os maiores ganhos ocorrem para $n = 50$, indicando que o *RF&FO dinâmico* é eficiente para problemas de maior porte e complexidade.

De forma geral, pode-se concluir que o comportamento adaptativo do *RF&FO dinâmico* possibilita uma exploração mais ampla do espaço de soluções à medida que o tamanho da instância aumenta, resultando em soluções de melhor qualidade em comparação ao *RF&FO*. Esse comportamento mostra-se adequado para instâncias de dimensão similar àsquelas encontradas em problemas reais.

5.3.2 RODADA 02 - HCG com variantes do *F&O*

Nesta rodada, é apresentada uma análise comparativa do desempenho computacional das abordagens com a *HCG* com as variantes do *F&O* na resolução do CLSP-PM, isto é, as heurísticas *HCG_{pdFO}*, *HCGFO*, *HCG_{pdFO}_{din}* e *HCGFO_{din}*. A Tabela 5.7 apresenta, para cada classe de instância considerada nesta rodada, os seguintes indicadores: (i) número de soluções ótimas encontradas (coluna OPT); (ii) *gap* percentual médio (coluna *gap*_{médio}); e (iii) tempo médio de execução (coluna *t*_{médio}) em segundos. Vale destacar que, nesta rodada, são avaliadas apenas as classes com capacidade HC, permitindo comparar diretamente o impacto do uso da PD em relação ao MIP na resolução dos subproblemas de *pricing* dentro da abordagem de GC.

Tabela 5.7: Rodada 02 - Comparativo entre HCG com e sem PD

Classe	<i>HCG_{pdFO}</i>			<i>HCGFO</i>			<i>HCG_{pdFO}_{din}</i>			<i>HCGFO_{din}</i>		
	OPT	<i>gap</i> _{médio} (%)	<i>t</i> _{médio} (s)	OPT	<i>gap</i> _{médio} (%)	<i>t</i> _{médio} (s)	OPT	<i>gap</i> _{médio} (%)	<i>t</i> _{médio} (s)	OPT	<i>gap</i> _{médio} (%)	<i>t</i> _{médio} (s)
NCHSHT	8	0,69	21,04	8	0,74	26,84	15	0,55	35,46	13	0,57	40,29
NCHSLT	5	0,90	37,70	5	0,91	45,05	8	0,76	63,30	8	0,77	70,60
NCLSHT	133	0,03	5,60	136	0,03	9,01	180	0,03	8,83	177	0,03	12,26
NCLSLT	86	0,06	17,03	90	0,07	21,69	122	0,05	28,35	124	0,05	35,86
TCHSHT	8	0,93	34,28	10	0,93	40,66	13	0,78	59,78	14	0,79	66,74
TCHSLT	6	1,27	58,11	6	1,29	67,00	8	1,10	102,81	11	1,10	110,95
TCLSHT	85	0,06	14,16	80	0,06	18,43	119	0,05	25,07	115	0,05	27,39
TCLSLT	48	0,11	42,03	50	0,11	48,44	76	0,09	66,18	73	0,10	74,05
Total	379	0,51	28,62	385	0,52	34,53	541	0,42	48,57	535	0,43	54,61

Na Tabela 5.7, foi observado que as variantes dinâmicas (*HCG_{pdFO}_{din}* e *HCGFO_{din}*) alcançaram os maiores números de soluções ótimas (541 e 535, respectivamente), superando as

versões estáticas $HCG_{pd}FO$ (379) e $HCGFO$ (385). Esse ganho se concentra especialmente em NCLSHT, NCLSLT, TCLSHT e TCLSLT, com aumentos expressivos no total de ótimos por classe.

Em termos gerais, a $HCG_{pd}FO_{din}$ apresentou o menor *gap* (0,42%), seguida de perto por $HCGFO_{din}$ (0,43%) e, depois, pelas versões estáticas $HCG_{pd}FO$ (0,51%) e $HCGFO$ (0,52%). Por outro lado, o custo de tempo médio é maior nas dinâmicas: 48,57 s ($HCG_{pd}FO_{din}$) e 54,61 s ($HCGFO_{din}$), frente a 28,62 s ($HCG_{pd}FO$) e 34,53 s ($HCGFO$). Dessa forma, a influência da PD foi vista dado que o $HCG_{pd}FO$ é o mais rápido por classe, enquanto $HCG_{pd}FO_{din}$ tende a produzir os menores *gaps*.

De forma geral, esses resultados indicam como as versões dinâmicas ampliam substancialmente o número de ótimos e melhoram o *gap* médio, ao custo de maior tempo de execução; entre elas, a $HCG_{pd}FO_{din}$ se destaca por combinar o melhor *gap* com mais ótimos do que a $HCGFO_{din}$. As versões estáticas permanecem competitivas quando a prioridade é tempo, com $HCG_{pd}FO$ oferecendo o menor tempo médio geral.

5.3.3 RODADA 03 - HCG com TH e variantes do $F\&O$

Nesta rodada, é apresentada uma análise comparativa do desempenho computacional das abordagens de HCG combinadas com a heurística de viabilização por transferência de produção (TH) e as variantes do $F\&O$ na resolução do CLSP-PM, isto é, a $HCG_{pd}THFO$, a $HCG_{pd}THFO_{din}$, a $HCGTHFO$ e a $HCGTHFO_{din}$.

A Tabela 5.8 apresenta, para cada classe de instância, os seguintes indicadores: (i) número de soluções ótimas encontradas (coluna OPT); (ii) *gap* percentual médio (coluna $gap_{médio}$); e (iii) tempo médio de execução (coluna $t_{médio}$) em segundos. Nesta rodada, são consideradas todas as classes de instância, possibilitando avaliar: (a) a influência da PD em relação ao MIP na resolução dos subproblemas de *pricing*; (b) o impacto da heurística de viabilização (TH) aplicada após a HCG ; e (c) a diferença de desempenho entre as variantes estática e dinâmica do $F\&O$ na etapa de busca local.

Dada a Tabela 5.8, foi observado que as variantes dinâmicas do $F\&O$ apresentaram, de forma geral, melhor desempenho no *gap* médio em relação às variantes estáticas, tanto usando PD, como no $HCG_{pd}THFO_{din}$, quanto com MIP no $HCGTHFO_{din}$. No total, a $HCGTHFO_{din}$ teve o menor *gap* médio geral (0,41%), a qual nota-se que tecnicamente está empatada com a $HCG_{pd}THFO_{din}$ (0,42%).

Por outro lado, as variantes estáticas do $F\&O$ se destacaram nos tempos médios, onde a

Tabela 5.8: Rodada 03 - Comparativo entre as abordagens com TH

Classe	$HCG_{pd}THFO$			$HCG_{pd}THFO_{din}$			$HCGTHFO$			$HCGTHFO_{din}$		
	OPT	$gap_{médio}$ (%)	$t_{médio}$ (s)	OPT	$gap_{médio}$ (%)	$t_{médio}$ (s)	OPT	$gap_{médio}$ (%)	$t_{médio}$ (s)	OPT	$gap_{médio}$ (%)	$t_{médio}$ (s)
NCHSHT	13	0,65	21,79	23	0,55	38,14	16	0,64	27,21	19	0,52	45,08
NCHSLT	5	0,86	37,07	6	0,76	63,04	1	0,94	46,06	6	0,80	74,41
NCLSHT	125	0,03	5,66	181	0,02	8,87	121	0,03	8,81	178	0,03	11,96
NCLSLT	86	0,05	14,77	123	0,05	21,80	91	0,06	20,61	126	0,05	28,41
TCHSHT	7	0,93	35,65	9	0,83	60,35	10	0,88	42,22	14	0,75	69,11
TCHSLT	5	1,18	63,49	9	1,03	106,11	6	1,17	72,77	7	1,02	110,37
TCLSHT	89	0,05	12,78	117	0,04	19,66	81	0,06	17,12	109	0,05	23,55
TCLSLT	64	0,10	33,52	85	0,09	46,96	53	0,11	41,30	75	0,10	54,18
Total	394	0,48	28,00	553	0,42	45,49	379	0,48	34,39	534	0,41	52,01

$HCG_{pd}THFO$ foi a mais rápida (28,07 s), seguida pela $HCGTHFO$ (34,48 s). A diferença de tempo entre as versões estáticas e dinâmicas reflete o custo computacional adicional necessário para a adaptação das janelas na busca local, que amplia a exploração do espaço de soluções.

Em termos por classe, a $HCGTHFO_{din}$ obteve os menores *gaps* médios em cinco das oito classes (NCHSHT, NCHSLT, TCHSHT, TCHSLT e NCLSLT), enquanto a $HCG_{pd}THFO_{din}$ nas outras três (NCLSHT, TCLSHT e TCLSLT). No entanto, a qualidade das variantes dinâmicas do *F&O* também foi acompanhada de tempos de execução mais altos, especialmente nas classes com capacidade apertada e alto custo de *setup* (TCHSHT e TCHSLT).

De forma geral, os resultados mostram que a inclusão da heurística de viabilização após a *HCG* mantém o *gap* médio em níveis baixos para todas as variantes, já a escolha entre PD e MIP nos subproblemas de *pricing* tem um impacto direto nos tempos de execução, embora a qualidade final da resolução seja aproximada.

Tais resultados apontam à análise da taxa de resolutividade dessas heurísticas, onde na Tabela 5.9 são apresentadas para cada classe de instância. Observou-se que todas as combinações analisadas apresentaram taxas superiores a 99%, o que evidenciou a robustez dos métodos em obter soluções para praticamente todas as instâncias viáveis. Nos Apêndices, todos os resultados das instâncias com *gaps* destacados como inviáveis ou com resultado inferior a zero são desconsiderados das análises.

Em termos gerais, a $HCGTHFO_{din}$ alcançou a maior taxa total (99,97%), seguida muito de perto pelas demais variantes, cujas taxas variaram entre 99,86% e 99,89%. A pequena diferença entre os métodos indica que a escolha entre PD e MIP nos subproblemas de *pricing*, bem como entre busca local estática ou dinâmica, não compromete significativamente a capacidade de resolução.

Ao considerar a adição da *TH*, nota-se que essa etapa contribui para a obtenção de soluções viáveis em praticamente todas as instâncias, atuando como um reforço final para lidar com casos onde a *HCG* isoladamente poderia gerar soluções inviáveis devido a restrições de

Tabela 5.9: Taxa de resolutividade por classe das abordagens com TH

Classes	Instâncias	$HCG_{pd}THFO$ (%)	$HCG_{pd}THFO_{din}$ (%)	$HCGTHFO$ (%)	$HCGTHFO_{din}$ (%)
NCHSHT	360	100	100	100	100
NCHSLT	358	100	100	99,72	100
NCLSHT	360	100	100	100	100
NCLSLT	358	99,72	99,72	100	99,72
TCHSHT	356	99,44	99,72	100	100
TCHSLT	353	100	100	99,43	100
TCLSHT	356	100	100	100	100
TCLSLT	353	99,72	99,72	100	100
Total	2854	99,86	99,89	99,89	99,97

capacidade. Esse efeito é percebido especialmente nas classes TCHSHT, TCHSLT e TCLSLT, que combinam alta carga de produção com configurações de capacidade mais restritivas, onde a TH assegurou a viabilidade em quase todos os casos.

No conjunto, considerando os resultados da Tabela 5.9, nota-se que todas as variantes com TH apresentaram desempenho bastante próximo em termos de resolutividade, onde a diferença nos *gaps* considerando o uso de MIP ou da PD nos subproblemas de *pricing* foi mínima. Entretanto, observa-se que as variantes com PD ($HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$) apresentaram tempos médios menores, mantendo os *gaps* semelhantes ou inferiores aos obtidos pelas variantes equivalentes com MIP.

Por isso, para as análises subsequentes, opta-se por concentrar a avaliação apenas nas variantes baseadas em PD, uma vez que estas oferecem uma combinação mais vantajosa entre qualidade da solução e eficiência computacional, preservando praticamente a mesma taxa de resolutividade das demais configurações.

Dessa forma, exploramos as duas variantes na Tabela 5.10, ela detalha os resultados obtidos pelas variantes $HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$ em função do número de períodos (m), máquinas (r) e itens (n). Observou-se que ambas as variantes mantêm *gaps* médios bastante próximos, com ligeira vantagem para a abordagem dinâmica em $m = 12$ e $m = 18$, onde a redução do *gap* chega a 0,14 e 0,04 pontos percentuais, respectivamente, em relação à versão com a versão estática do F&O.

No cenário de menor horizonte de planejamento ($m = 6$), as diferenças são praticamente inexistentes, isso indica que, para instâncias curtas, o comportamento do F&O dinâmico não traz ganhos significativos em termos de qualidade. Entretanto, conforme o horizonte aumenta, especialmente em $m = 12$ e $m = 18$, nota-se que a variante dinâmica do F&O consegue explorar de forma mais eficiente o espaço de busca, reduzindo o *gap* em quase todos os valores de r e n .

Tabela 5.10: Resultados por $m/r/n$ entre $HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$

$m / r / n$	$HCG_{pd}THFO$		$HCG_{pd}THFO_{din}$	
	$gap_{\text{médio}} (\%)$	$t_{\text{médio}}(s)$	$gap_{\text{médio}} (\%)$	$t_{\text{médio}}(s)$
m = 6	0,51	7,93	0,51	7,99
r = 2	0,43	1,68	0,43	1,67
n = 6	0,79	0,40	0,79	0,39
n = 12	0,54	0,65	0,54	0,64
n = 25	0,28	1,61	0,28	1,59
n = 50	0,13	4,02	0,13	4,02
r = 4	0,49	6,25	0,49	6,24
n = 6	0,81	0,62	0,81	0,63
n = 12	0,56	1,96	0,56	1,96
n = 25	0,41	6,83	0,41	6,81
n = 50	0,17	15,60	0,17	15,56
r = 6	0,60	15,85	0,60	16,06
n = 6	0,86	0,90	0,86	0,90
n = 12	0,73	2,68	0,73	2,71
n = 25	0,53	19,09	0,53	19,13
n = 50	0,30	40,35	0,30	41,12
m = 12	0,51	23,53	0,37	47,07
r = 2	0,49	9,53	0,34	21,81
n = 6	0,99	1,23	0,63	2,49
n = 12	0,47	2,94	0,35	6,25
n = 25	0,37	13,01	0,26	30,90
n = 50	0,14	20,42	0,11	46,61
r = 4	0,48	22,36	0,35	43,80
n = 6	0,62	2,28	0,40	4,08
n = 12	0,64	11,12	0,45	22,15
n = 25	0,45	30,32	0,36	59,41
n = 50	0,21	45,71	0,18	89,28
r = 6	0,58	38,59	0,44	75,45
n = 6	0,61	2,69	0,38	5,40
n = 12	0,65	14,84	0,47	32,90
n = 25	0,69	51,77	0,58	106,51
n = 50	0,35	84,17	0,31	155,25
m = 18	0,42	52,87	0,38	81,86
r = 2	0,36	26,74	0,31	42,37
n = 6	0,57	2,96	0,47	4,62
n = 12	0,48	12,03	0,42	18,29
n = 25	0,31	36,27	0,27	59,73
n = 50	0,10	53,19	0,09	82,80
r = 4	0,40	45,94	0,36	76,53
n = 6	0,37	5,51	0,30	9,11
n = 12	0,63	30,09	0,57	49,92
n = 25	0,41	62,30	0,40	97,84
n = 50	0,19	85,65	0,17	148,42
r = 6	0,50	85,82	0,46	126,25
n = 6	0,44	8,08	0,35	12,32
n = 12	0,62	34,00	0,58	53,13
n = 25	0,64	121,03	0,60	179,65
n = 50	0,32	174,77	0,30	251,37
Total	0,48	28,00	0,42	45,49

Em relação ao tempo computacional, a versão estática é consistentemente mais rápida, com diferenças mais acentuadas nas instâncias de maior porte (por exemplo, $m = 18$, $r = 6$, $n = 50$, onde o tempo cai de 251,37 s para 174,77 s). Em razão do fato que o *F&O* dinâmico realiza mais ajustes das janelas e do *overlapping* ao longo da execução.

No recorte por número de máquinas, observa-se que, para $r = 2$, os tempos médios são significativamente menores em ambas as variantes, com *gaps* mais baixos para instâncias com até 25 itens. Por outro lado, para $r = 6$, o tempo de execução cresce de forma acentuada, sobretudo quando associado a grandes valores de n , indicando que o aumento simultâneo de máquinas e itens eleva substancialmente a complexidade da busca local.

Quanto ao número de itens, há um padrão claro de redução do *gap* à medida que n aumenta, especialmente em instâncias de maior horizonte ($m = 12$ e $m = 18$). Isso reforça que a PD aliada à heurística de viabilização é mais eficaz em problemas de maior porte, onde a flexibilidade para explorar diferentes combinações de produção tem maior impacto.

De forma geral, embora a $HCG_{pd}THFO$ apresente tempos menores, a $HCG_{pd}THFO_{din}$ se mostra superior em qualidade de solução nas instâncias mais complexas, justificando seu uso quando o objetivo é priorizar a redução do *gap* em cenários de alta complexidade.

5.4 COMPARAÇÃO COM OUTROS MÉTODOS NA LITERATURA

Nesta seção, é apresentada uma análise comparativa entre os resultados obtidos pelas variantes selecionadas da Rodada 3, $HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$, com as principais abordagens da literatura. Como referência, foram considerados os trabalhos de Toledo e Armentano (2006), Fiorotto e de Araujo (2014), Fiorotto et al (2015), Wu et al (2018) e Vincent et al (2020), todos avaliados com base nas instâncias propostas por Toledo e Armentano (2006).

Para possibilitar uma comparação justa entre os tempos de execução obtidos nesse trabalho e aqueles reportados em outros estudos da literatura, foi necessário ajustar os valores de tempo com base nas diferenças entre os ambientes computacionais utilizados. O procedimento adotado segue o mesmo critério apresentado por Vincent et al (2020), considerando como referência o ambiente utilizado por Toledo e Armentano (2006), cujo fator de desempenho (PF) é definido como 1,00.

O fator de desempenho é calculado como a razão entre o número de *Giga Floating Point Operations per Second* (GFLOPS) por núcleo do processador de referência e o número de GFLOPS por núcleo dos processadores utilizados nos demais trabalhos. Assim, para cada abordagem da literatura, determinou-se um PF específico, que foi utilizado para normalizar os

tempos médios de execução apresentados nas tabelas comparativas.

Os valores de GFLOPS utilizados para o cálculo desses fatores foram obtidos a partir dos projetos de pesquisa *MilkyWay@home* (https://milkyway.cs.rpi.edu/milkyway/cpu_list.php) e *Asteroids@home* (https://asteroidsathome.net/boinc/cpu_list.php), conforme a disponibilidade de informações para cada processador analisado.

O ambiente computacional adotado nesse trabalho utiliza um processador Intel® Core™ i3-10100T a 3,0 GHz. Os valores de desempenho obtidos foram de 4,92 GFLOPS no *MilkyWay@home* e 5,06 GFLOPS no *Asteroids@home*, sendo esse último adotado para o cálculo, o que resultou em um PF de 2,706.

A Tabela 5.11 apresenta os fatores de desempenho calculados para os ambientes computacionais considerados, os quais foram utilizados para normalizar os tempos médios apresentados nas tabelas comparativas subsequentes.

Tabela 5.11: Ambientes computacionais das abordagens comparadas

Autor(a)	Linguagem de Programação	Modelo do CPU	GFLOPS/núcleo	Fator de Desempenho
Toledo e Armentano (2006)	C	AMD Athlon™ XP 2800+	1,90	1,00
		AMD Athlon™ XP 2400+	1,83	
		AMD Athlon™ XP 2600+	1,87	
		AMD Athlon™ 64 X2Dual Core Processor 6400+	3,07	
		AMD Athlon™ 64 X2Dual Core Processor TK-53	1,35	
Fiorotto e de Araujo (2014)	Fortran	Intel® Core™ i5CPU M 430 @ 2.27GHz	2,31	1,24
Fiorotto et al. (2015)	Fortran	Intel® Core™ i5 CPU M 430 @ 2.27GHz	2,31	1,24
Wu et al. (2018)	GAMS 24.5	Intel® Xeon® CPU T6670 @ 2.20 GHz	2,20	1,18
Vincent et al. (2020)	Java 7	Intel® Xeon® E7-8890 @ 2.50GHz	2,48	1,33
Esse trabalho	Julia 1.9.4	Intel® Core™ i3-10100 @ 3.60GHz	5,06	2.706

Seguindo a organização proposta por Vincent et al (2020), onde primeiramente considera-se os trabalhos que utilizam todas as 2.880 instâncias originalmente propostas por Toledo e Ar-

mentano (2006), distribuídas em oito classes, cada uma com 360 instâncias. Portanto, compara-se com os resultados de Toledo e Armentano (2006), Fiorotto e de Araujo (2014) e Vincent et al (2020) na Tabela 5.12.

Em seguida, os resultados das abordagens propostas são comparadas com um conjunto menor de 2.160 instâncias (270 por classe), obtido pela exclusão das instâncias com $n = 50$. Esse conjunto foi utilizado por Fiorotto et al (2015) e Wu et al (2018), apresentado na Tabela 5.13.

Tabela 5.12: Comparativo com abordagens da literatura com 2.880 instâncias

Autor(a)	Toledo e Armentano (2006)		Fiorotto e de Araújo (2014)		Vincent et al. (2020)		Esse trabalho			
Abordagem	Heurística Lagrangiana		Heurística Lagrangiana		Heurística Populacional		$HCG_{pd}THFO$		$HCG_{pd}THFO_{din}$	
Classe das Instâncias	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)
NCHSHT	13.8	5.9	9.9	6.4	2.3	65.3	0.65	58.95	0.55	103.19
NCHSLT	11.7	5.3	8.9	6.1	3.3	69	0.86	100.31	0.76	170.57
NCLSHT	2.5	4.9	1.5	4.3	0.3	85.4	0.03	15.31	0.02	23.99
NCLSLT	2.0	3.9	1.4	4.1	0.5	91	0.05	39.96	0.05	58.99
TCHSHT	23.5	8.4	13.2	8.2	3.3	62.3	0.93	96.47	0.83	163.30
TCHSLT	18.5	7.8	12.3	8.1	4.6	61.2	1.18	171.80	1.03	287.11
TCLSHT	4.2	14.4	2.6	5.8	0.5	85.1	0.05	34.59	0.04	53.19
TCLSLT	3.4	8.9	2.3	5.1	0.8	86.3	0.10	90.71	0.09	127.08
	9.95	7.44	6.51	6.01	1.95	75.7	0.48	76.01	0.42	123.43

Na Tabela 5.12 é apresentado o comparativo entre as heurísticas selecionadas da Rodada 3 ($HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$) e os trabalhos de Toledo e Armentano (2006), Fiorotto e de Araujo (2014) e Vincent et al (2020), considerando as 2.880 instâncias originais. Os resultados indicam que ambas as variantes propostas superam de forma expressiva os métodos da literatura no gap percentual médio. Enquanto os trabalhos anteriores apresentam valores que variam de 1,95% (Vincent et al) a 9,95% (Toledo e Armentano), as abordagens desse trabalho mantêm o gap abaixo de 0,5%, chegando a 0,42% na $HCG_{pd}THFO_{din}$. Essa diferença é consistente em todas as classes, com destaque para instâncias mais complexas, como TCHSHT e TCHSLT, onde a redução de gap ultrapassou 3 pontos percentuais em relação a melhor das abordagens anteriores.

No que se refere ao tempo médio, observa-se que as variantes propostas apresentam valores mais elevados que os métodos lagrangianos, mas permanecem competitivas em relação à heurística populacional de Vincent et al. A diferença de tempo é explicada pela estratégia de exploração do espaço de soluções utilizada, que inclui a resolução exata de subproblemas por PD e a aplicação da HF, resultando em soluções de melhor qualidade. Entre as duas abordagens propostas, a $HCG_{pd}THFO$ apresenta tempos médios menores (76,01 segundos contra 123,43 segundos) com um gap ligeiramente superior, enquanto a $HCG_{pd}THFO_{din}$ obtém os melhores

gaps em praticamente todas as classes, ao custo de maior tempo computacional. Mesmo com um custo de tempo adicional, a $HCG_{pd}THFO_{din}$ possui ganho expressivo na qualidade das soluções, especialmente para instâncias de maior dificuldade para o CLSP-PM.

Tabela 5.13: Comparativo com abordagens da literatura com 2.160 instâncias

Autor(a)	Fiorotto et al (2015)		Wu et al (2018)		Vincent et al (2020)		Esse trabalho			
Abordagem	Heur. Lag. com Melhoria		Branching Analítico		Heurística Populacional		$HCG_{pd}THFO$		$HCG_{pd}THFO_{din}$	
Classe das Instâncias	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)
NCHSHT	4.9	28.8	2.6	56.4	2.3	24.7	0.80	39.12	0.67	68.39
NCHSLT	4.6	25.8	3.4	62.0	3.2	25.5	1.02	59.59	0.89	106.59
NCLSHT	1.5	84.9	0.3	49.6	0.3	34.2	0.04	12.03	0.03	18.32
NCLSLT	1.3	101.1	0.4	51.6	0.5	35.2	0.06	28.71	0.05	44.07
TCHSHT	5.7	21.2	3.3	61.2	3.2	24.5	1.13	59.90	1.00	104.00
TCHSLT	5.7	21.5	4.3	65.6	4.5	23.6	1.37	99.65	1.18	169.39
TCLSHT	2.0	106.8	0.4	52.2	0.5	32.6	0.06	25.56	0.05	39.31
TCLSLT	1.9	88.7	0.6	56.3	0.8	30.5	0.11	62.11	0.10	91.46
	3.45	59.89	1.91	56.9	1.91	28.85	0.57	48.33	0.50	80.19

Agora na Tabela 5.13 temos o comparativo dos resultados obtidos para as heurísticas $HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$ e os trabalhos de Fiorotto et al (2015), Wu et al (2018) e Vincent et al (2020), onde é considerado o subconjunto de 2.160 instâncias (270 por classe), que exclui os casos com 50 itens. Os resultados mostram que as heurísticas propostas mostram um desempenho significativamente superior no *gap* percentual médio em relação aos métodos da literatura, cujos valores variam entre 1,91% e 3,45%. Em contraste, a $HCG_{pd}THFO$ atinge 0,57% e a $HCG_{pd}THFO_{din}$ reduz ainda mais para 0,50%. Essa diferença é vista em todas as classes, com ganhos bastante significativos principalmente em instâncias de maior complexidade, como TCHSHT e TCHSLT, onde a redução do *gap* chega a mais 4 pontos percentuais frente aos resultados da literatura.

Em relação ao tempo médio, as abordagens desse trabalho apresentam valores superiores aos registrados por Vincent et al (2020), mas são competitivas frente aos tempos reportados por Fiorotto et al (2015) e Wu et al (2018). Essa diferença decorre, principalmente, do uso combinado de programação dinâmica nos subproblemas de *pricing* e da heurística de transferência, que permitem maior exploração do espaço de soluções e obtenção de soluções de qualidade superior. Entre as variantes, a $HCG_{pd}THFO$ mantém tempos médios menores (48,33 segundos contra 80,19 segundos) com leve perda de qualidade, enquanto a $HCG_{pd}THFO_{din}$ entrega os melhores *gaps* para praticamente todas as classes, com custo computacional adicional.

Assim como foi constatado no conjunto de 2.880 instâncias, os resultados mostram que a opção mais robusta para problemas de maior complexidade é a $HCG_{pd}THFO_{din}$. Já a $HCG_{pd}THFO$ apresenta um *trade-off* mais favorável entre tempo e qualidade quando a velocidade é um fator decisivo.

Nas próximas tabelas, uma análise mais detalhada dos resultados pôde ser desenvolvida, onde recortes de diferentes classes foram realizadas para, então, comparar o desempenho de forma detalhada através do número de itens (n) e número de máquinas (r).

Tabela 5.14: Resultados para NCLSLT em instâncias com 12 períodos

Autor(a)		Toledo e Armentano (2006)		Fiorotto e de Araújo (2014)		Vincent et al. (2020)		Esse trabalho			
Abordagem		Heurística Lagrangiana		Heurística Lagrangiana		Heurística Populacional		$HCG_{pd}THFO$		$HCG_{pd}THFO_{din}$	
r	n	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)
2	6	2.2	0.3	1.7	0.6	0.6	0.9	0.08	2.8	0.04	4.2
	12	1.0	0.6	0.8	1.6	0.3	7.6	0.06	4.4	0.04	11.7
	25	0.3	1.5	0.5	3.7	0.4	27.6	0.02	7.0	0.01	11.5
	50	0.1	2.6	0.2	6.1	0.4	106.5	0.00	8.0	0.00	13.8
4	6	5.8	0.9	3.0	1.2	0.6	4.5	0.08	7.9	0.00	12.4
	12	1.8	1.7	1.0	2.0	0.4	13.6	0.08	14.2	0.04	25.1
	25	0.3	3.0	0.2	3.7	0.4	53.4	0.05	34.0	0.04	77.7
	50	0.1	6.2	0.1	7.8	0.4	210.7	0.02	34.6	0.02	63.7
6	6	10.4	1.6	6.3	1.2	0.7	5.0	0.09	6.7	0.04	12.7
	12	2.4	3.1	0.8	2.4	0.6	20.1	0.07	27.9	0.04	59.2
	25	0.9	6.9	0.2	5.5	0.7	81.3	0.13	100.7	0.11	172.8
	50	0.3	14.9	0.0	9.5	0.5	194.3	0.06	125.1	0.06	209.6
		2.13	3.6	1.23	4.7	0.50	60.46	0.06	31.10	0.04	56.22

O primeiro recorte, na Tabela 5.14, apresenta o desempenho das variantes $HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$ para a classe NCLSLT com 12 períodos, comparando-as com os métodos de Toledo e Armentano (2006), Fiorotto e de Araújo (2014) e Vincent et al (2020). Os resultados evidenciam uma redução expressiva no gap médio em todas as combinações de número de máquinas (r) e itens (n). Enquanto os métodos anteriores apresentam $gaps$ médios globais de 2,13%, 1,23% e 0,50%, respectivamente, as heurísticas propostas alcançam 0,06% para a $HCG_{pd}THFO$ e 0,04% para a $HCG_{pd}THFO_{din}$, mantendo essa vantagem de forma consistente em todas as configurações analisadas. O ganho é mais evidente em casos com maior número de máquinas ($r = 6$) e poucos itens ($n = 6$), onde as reduções chegam a quase dez pontos percentuais em relação a Toledo e Armentano (2006).

Quanto ao tempo médio, ambas as abordagens desse trabalho apresentam valores superiores aos de Toledo e Armentano (2006) e Fiorotto e de Araújo (2014), mas são bem menores que os reportados por Vincent et al (2020) para as instâncias mais complexas. A $HCG_{pd}THFO$ mantém tempos menores que a $HCG_{pd}THFO_{din}$ em todas as combinações, refletindo seu perfil mais enxuto de busca, enquanto a $HCG_{pd}THFO_{din}$ demanda mais tempo para realizar ajustes dinâmicos na etapa de busca local, alcançando os melhores $gaps$.

Esse recorte para a classe NCLSLT com 12 períodos, mostra que as heurísticas desse trabalho não apenas superam os métodos da literatura em qualidade de solução, mas também apresentam desempenho consistente frente ao aumento da complexidade, sendo a $HCG_{pd}THFO_{din}$

a mais indicada quando a prioridade é minimizar o *gap*, e a $HCG_{pd}THFO$ quando se busca um melhor equilíbrio entre tempo e qualidade.

Tabela 5.15: Resultados para NCHSLT em instâncias com 12 períodos

Autor(a)		Toledo e Armentano (2006)		Fiorotto e de Araújo (2014)		Vincent et al. (2020)		Esse trabalho			
Abordagem		Heurística Lagrangiana		Heurística Lagrangiana		Heurística Populacional		$HCGTHFO$		$HCG_{pd}THFO_{din}$	
r	n	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)
2	6	18.2	0.5	15.4	1.1	3.0	0.8	2.05	3.47	1.01	8.41
	12	7.1	0.9	5.4	2.1	2.2	6.4	0.97	10.61	0.79	22.35
	25	3.4	2.3	2.2	7.2	3.5	20.0	0.55	44.57	0.42	115.74
	50	1.0	6.1	1.5	14.5	3.6	74.3	0.26	79.48	0.22	176.27
4	6	31.2	0.9	24.3	1.4	3.2	3.5	1.08	5.26	0.86	9.83
	12	8.9	2.1	11.2	2.5	2.9	10.0	1.07	36.50	0.89	74.76
	25	3.1	4.3	2.8	5.3	3.6	40.6	0.82	124.81	0.75	219.36
	50	1.1	10.3	1.1	11.7	3.3	183.9	0.45	191.30	0.36	421.15
6	6	52.8	1.7	28.1	1.9	5.9	3.9	0.86	7.45	0.62	14.02
	12	16.6	3.7	13.1	3.3	3.8	14.3	1.48	55.97	1.01	145.03
	25	4.9	8.0	3.4	6.6	4.5	57.3	1.30	180.22	1.17	402.56
	50	1.7	17.4	1.1	13.0	3.9	147.9	0.65	316.90	0.56	645.65
		12.5	4.85	9.13	7.3	3.62	46.9	0.96	88.05	0.72	187.93

A Tabela 5.15 apresenta os resultados para a classe NCHSLT em instâncias com 12 períodos, comparando as variantes $HCGTHFO$ e $HCG_{pd}THFO_{din}$ com os métodos de Toledo e Armentano (2006), Fiorotto e de Araújo (2014) e Vincent et al (2020). O *gap* médio geral das abordagens implementadas é significativamente inferior ao das abordagens da literatura, passando de 12,50% (Toledo e Armentano) e 9,13% (Fiorotto e de Araújo) para 0,96% na $HCGTHFO$ e 0,72% na $HCG_{pd}THFO_{din}$. Em diversas instâncias, especialmente para instâncias com baixo número de itens ($n = 6$ ou $n = 12$), as reduções superam 10 pontos percentuais em relação aos métodos mais antigos.

A $HCG_{pd}THFO_{din}$ atinge os menores *gaps* em quase todas as combinações de r e n , com destaque para $r = 2$, $n = 50$, onde reduz o valor de 3,6% (Vincent et al) para apenas 0,22%. No entanto, essa melhora vem acompanhada de tempos médios mais elevados, por exemplo, em $r = 6$, $n = 50$, o tempo sobe para 645,65 segundos, contra 316,90 segundos da $HCGTHFO$.

A $HCGTHFO$ apresenta desempenho consistente, com *gaps* ligeiramente superiores aos da versão dinâmica, mas com tempos médios menores em todos os casos. Assim, ela representa uma alternativa mais rápida, especialmente útil em instâncias onde a qualidade já está próxima do ótimo e o custo computacional é fator limitante.

Agora com esse recorte para a classe NCHSLT com 12 períodos, é apresentado que ambas as variantes superam de forma expressiva os métodos da literatura, confirmando o impacto positivo da heurística de transferência combinada com o *F&O*, com a escolha entre $HCGTHFO$ e $HCG_{pd}THFO_{din}$ dependendo do *trade-off* desejado entre tempo e qualidade.

Tabela 5.16: Resultados para NCLSLT em instâncias com 6 períodos

Autor(a)		Fiorotto e de Araújo (2014)		Vincent et al. (2020)		Ese trabalho			
Abordagem		Heurística Lagrangiana		Heurística Populacional		$HCGTHFO$		$HCG_{pd}THFO_{din}$	
r	n	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)	$gap_{\text{médio}}$ (%)	$t_{\text{médio}}$ (s)
2	6	2.0	0.4	0.3	0.4	0.10	0.81	0.10	0.81
	12	0.4	0.9	0.1	4.2	0.09	1.07	0.09	1.08
	25	0.4	2.7	0.3	13.3	0.05	2.26	0.05	2.20
	50	0.1	6.7	0.2	47.9	0.01	3.00	0.01	3.03
4	6	1.9	0.4	0.2	2.4	0.08	1.82	0.08	1.79
	12	0.9	0.9	0.2	6.5	0.03	3.28	0.03	3.31
	25	0.2	2.0	0.2	23.6	0.04	5.98	0.04	5.98
	50	0.1	4.6	0.2	94.4	0.02	12.73	0.02	12.80
6	6	4.3	0.4	0.3	2.7	0.05	2.52	0.05	2.46
	12	0.6	0.9	0.2	9.3	0.10	5.48	0.10	5.43
	25	0.2	2.0	0.3	32.0	0.04	40.69	0.04	41.00
	50	0.0	4.1	0.3	80.0	0.04	62.29	0.04	62.86
		0.92	2.17	0.23	26.4	0.05	11.83	0.05	11.90

Esse terceiro recorte, na Tabela 5.16, apresenta os resultados para a classe NCLSLT em instâncias com 6 períodos, comparando as variantes $HCGTHFO$ e $HCG_{pd}THFO_{din}$ com os métodos de Fiorotto e de Araújo (2014) e Vincent et al (2020). Os resultados mostram que ambas as heurísticas alcançam $gaps$ médios muito inferiores aos obtidos pelos trabalhos da literatura, com uma redução global de 0,92% (Fiorotto e de Araújo) e 0,23% (Vincent et al) para apenas 0,05% nas duas abordagens propostas.

O desempenho é satisfatório em todas as combinações de r e n , com valores de gap que excedem 0,10%, mesmo para instâncias mais complexas, ou seja, com maior número de máquinas e itens. A $HCGTHFO$ e a $HCG_{pd}THFO_{din}$ apresentam resultados muito semelhantes em termos de qualidade, indicando que, para esse conjunto de instâncias, o uso da programação dinâmica não trouxe ganho relevante em termos de gap .

No entanto, ao observar os tempos médios, nota-se que ambas as abordagens são significativamente mais rápidas que a heurística populacional de Vincent et al, especialmente para instâncias com maior número de itens, onde as reduções de tempo chegam a mais de 80 segundos em média no caso com 4 máquinas e 50 itens. A diferença entre as duas heurísticas propostas é mínima, com tempos muito próximos e sem tendência clara de vantagem para uma delas.

Portanto, com esse recorte para a classe NCLSLT com 6 períodos, as duas variantes propostas não apenas superam os métodos da literatura em qualidade, como também mantêm tempos computacionais competitivos.

O último recorte, na Tabela 5.17 apresenta os resultados para a classe NCLSLT em instâncias com 18 períodos, comparando as variantes $HCGTHFO$ e $HCG_{pd}THFO_{din}$ com as abordagens de Fiorotto e de Araújo (2014) e Vincent et al (2020). Os resultados evidenciam que

Tabela 5.17: Resultados para NCLSLT em instâncias com 18 períodos

Autor(a)		Fiorotto e de Araújo (2014)		Vincent et al. (2020)		Esse trabalho			
Abordagem		Heurística Lagrangiana		Heurística Populacional		$HCGTHFO$		$HCG_{pd}THFO_{din}$	
r	n	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)	$gap_{médio}$ (%)	$t_{médio}$ (s)
2	6	3.1	1.1	0.7	2.0	0.03	5.98	0.02	9.83
	12	2.1	4.2	0.4	18.0	0.04	12.58	0.04	18.41
	25	1.2	9.5	0.4	72.8	0.03	23.91	0.02	32.62
	50	0.2	24.9	0.4	287.2	0.01	22.07	0.00	38.68
4	6	6.2	2.2	0.7	11.2	0.01	13.94	0.01	22.76
	12	1.6	4.6	0.9	37.4	0.09	50.42	0.09	75.86
	25	0.5	9.5	0.6	151.3	0.05	68.34	0.05	104.22
	50	0.2	19.3	0.4	596.7	0.02	88.89	0.02	121.66
6	6	7.7	2.9	0.9	10.5	0.05	18.36	0.04	24.08
	12	1.7	5.7	1.0	58.5	0.09	80.72	0.11	106.16
	25	0.3	11.5	0.8	212.6	0.13	250.32	0.12	336.84
	50	0.1	22.6	0.6	538.5	0.06	303.19	0.06	403.21
		2.07	9.83	0.65	166.39	0.05	78.23	0.05	107.86

ambas as heurísticas propostas superam amplamente os métodos da literatura em termos de gap médio, que se mantém em torno de 0,05% contra 2,07% da heurística lagrangiana de Fiorotto e de Araujo e 0,65% da heurística populacional de Vincent et al.

O ganho em qualidade é consistente em todas as combinações de r e n , incluindo instâncias com maior número de máquinas e itens, onde o problema tende a ser mais difícil. Para instâncias pequenas (menores valores de n), as propostas alcançam quase solução ótima, com $gaps$ de 0,00% a 0,05%.

Em relação ao tempo, as abordagens propostas apresentam um comportamento misto. Para instâncias menores, são competitivas e, em alguns casos, mais rápidas que as da literatura. Entretanto, para instâncias de maior porte, principalmente com $r = 6$ e $n \geq 25$, o tempo de execução aumenta, refletindo o custo adicional do processo de busca local do $F\&O$. Mesmo assim, os tempos permanecem inferiores aos observados na abordagem de Vincent et al em diversas combinações de parâmetros, especialmente para casos com baixo número de períodos ou itens.

Com esse último recorte para a classe NCLSLT com 18 períodos, mostra que as heurísticas entregam soluções de qualidade muito superior à literatura, com tempos computacionais aceitáveis diante da complexidade das instâncias, reforçando sua robustez e aplicabilidade.

Portanto, com esses quatro recortes pode ser constatado um desempenho competitivo das heurísticas $HCG_{pd}THFO$ e $HCG_{pd}THFO_{din}$ frente às principais abordagens da literatura. Em todas as classes avaliadas, as propostas alcançaram $gaps$ médios menores, onde vários deles são muito próximos de zero, mesmo em instâncias de maior porte e complexidade.

6 CONCLUSÃO E TRABALHOS FUTUROS

Esse trabalho abordou o Problema de Dimensionamento de Lotes com Restrições de Capacidade em Máquinas Paralelas (CLSP-PM) por meio de diferentes estratégias heurísticas, avaliadas em três etapas principais.

Na primeira etapa, foi analisada a heurística *RF&FO*, composta pelo *Relax-and-Fix* na construção inicial de uma solução viável e pelo *Fix-and-Optimize* como busca local para otimização do resultado. Foram testadas duas estratégias: *RF&FO* e *RF&FO dinâmico*. Ambas obtiveram bons resultados, com destaque para a variante dinâmica, que apresentou menor *gap* médio e maior capacidade de explorar o espaço de soluções, mesmo com aumento no tempo de execução.

Já na segunda etapa, se introduziu a Heurística Baseada em Geração de Colunas (HCG) como heurística construtiva e como busca local *F&O*, onde nesta etapa se investigou o impacto de resolver os subproblemas de *pricing* com Programação Dinâmica (PD) ou Programação Mista (MIP). Os experimentos mostraram que a inclusão da PD tende a reduzir tempos de execução e manter a qualidade das soluções, especialmente em instâncias maiores, enquanto a versão com MIP obteve resultados competitivos em termos de *gap*, mas com custo computacional mais elevado.

Na terceira etapa, o HCG foi estendido com a heurística de viabilização por transferência de produção (*TH*), mantendo a comparação entre PD e MIP nos subproblemas e entre as variantes estática e dinâmica no *F&O*. A *TH* contribuiu para garantir a entrega de uma solução viável para a busca local após a resolução da HCG. Novamente, a estratégia com a variante de *F&O dinâmico* alcançou os menores *gaps* médios, ainda mais em instâncias de maior porte, embora tenha sido necessário mais tempo.

Quanto as comparações com trabalhos na literatura, tanto no conjunto com todas as instâncias quanto no subconjunto de 2.160 e nos recortes específicos, confirmaram a competitividade das abordagens propostas. A combinação de HCG com PD, *TH* e *F&O dinâmico* apresentou o melhor *trade-off* entre qualidade e tempo, obtendo *gaps* próximos de zero em diversas classes de instâncias e tempos compatíveis com esses resultados.

Portanto, com isso demonstra-se que a integração de Heurísticas baseadas em Geração de Colunas, Programação Dinâmica e estratégias adaptativas de busca local como o *F&O dinâmico*

são capazes de produzir soluções de alta qualidade para problemas complexos de planejamento de produção em um tempo satisfatório.

Já para trabalhos futuros espera-se aprimorar os limites inferiores na HCG para reduzir ainda mais os *gaps*, e explorar a aplicação do *F&O* dinâmico em outras meta-heurísticas. Dessa forma, desenvolver procedimentos que conciliem tempos ainda menores que mantenham o alto nível de qualidade dos resultados.

6.1 CONSIDERAÇÕES FINAIS

Durante a preparação desse trabalho foi realizado o uso de tecnologias de IA generativa e outras assistidas por IA no processo de redação. Ferramentas como o *ChatGPT / OpenAI* auxiliaram a aprimorar a legibilidade e a linguagem do texto. Após o uso desta ferramenta, o texto foi devidamente revisado pelo autor e editado conforme necessário, de modo que se assume total responsabilidade pelo conteúdo presente.

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APÊNDICES

APÊNDICE A

Tabela I: Resultados por instância ($m/r/n$) - $HCG_{pd}THFO$

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6	13492.3	13492.3	0.00%	0.26	0.05	0.30	0.43	15	3	0.73	NCHSHT
NAA016_2-6	6	2	6	10970.8	10970.8	1.17%	0.10	0.02	0.13	0.11	10	2	0.24	NCHSHT
NAA026_2-6	6	2	6	14513.2	14513.2	1.63%	0.08	0.04	0.13	0.20	15	3	0.33	NCHSHT
NAA036_2-6	6	2	6	14675.0	14675.0	0.57%	0.11	0.03	0.13	0.26	15	3	0.39	NCHSHT
NAA046_2-6	6	2	6	15674.7	15674.7	1.83%	0.09	0.02	0.12	0.45	15	3	0.57	NCHSHT
NAA056_2-6	6	2	6	16142.8	16142.8	0.00%	0.09	0.02	0.11	0.03	5	1	0.14	NCHSHT
NAA066_2-6	6	2	6	15326.3	15326.3	0.00%	0.15	0.02	0.17	0.19	10	2	0.37	NCHSHT
NAA076_2-6	6	2	6	16170.5	16170.5	0.33%	0.13	0.02	0.15	0.20	10	2	0.35	NCHSHT
NAA086_2-6	6	2	6	12980.2	12980.2	2.63%	0.10	0.02	0.13	0.22	15	3	0.35	NCHSHT
NAA096_2-6	6	2	6	12694.6	12694.6	0.00%	0.09	0.02	0.11	0.29	15	3	0.41	NCHSHT
NAA0012_2-6	6	2	12	24115.9	24115.9	1.41%	0.16	0.04	0.20	0.98	24	4	1.18	NCHSHT
NAA0112_2-6	6	2	12	23545.2	23545.2	2.69%	0.18	0.04	0.21	1.85	36	6	2.07	NCHSHT
NAA0212_2-6	6	2	12	26657.7	26657.7	1.60%	0.15	0.03	0.18	0.50	18	3	0.69	NCHSHT
NAA0312_2-6	6	2	12	26283.6	26283.6	1.87%	0.17	0.04	0.21	0.60	18	3	0.82	NCHSHT
NAA0412_2-6	6	2	12	25871.4	25871.4	1.57%	0.22	0.04	0.26	1.40	24	4	1.67	NCHSHT
NAA0512_2-6	6	2	12	30809.0	30809.0	3.31%	0.17	0.04	0.21	0.83	18	3	1.04	NCHSHT
NAA0612_2-6	6	2	12	27317.1	27317.1	1.21%	0.16	0.05	0.21	1.17	36	6	1.39	NCHSHT
NAA0712_2-6	6	2	12	26583.8	26583.8	0.52%	0.19	0.03	0.22	0.53	18	3	0.75	NCHSHT
NAA0812_2-6	6	2	12	21875.1	21875.1	1.10%	0.13	0.04	0.17	0.41	18	3	0.58	NCHSHT
NAA0912_2-6	6	2	12	26321.0	26321.0	0.40%	0.15	0.03	0.19	0.69	18	3	0.88	NCHSHT
NAA0018_2-6	6	2	18	32298.9	32298.9	0.04%	0.38	0.07	0.45	5.15	40	5	5.60	NCHSHT
NAA0118_2-6	6	2	18	33168.8	33168.8	0.66%	0.41	0.04	0.45	3.10	24	3	3.56	NCHSHT
NAA0218_2-6	6	2	18	38800.5	38800.5	0.60%	0.27	0.09	0.37	1.62	24	3	1.99	NCHSHT
NAA0318_2-6	6	2	18	39294.5	39294.5	0.64%	0.36	0.05	0.42	2.03	24	3	2.44	NCHSHT
NAA0418_2-6	6	2	18	36392.9	36392.9	1.96%	0.41	0.06	0.47	5.83	40	5	6.30	NCHSHT
NAA0518_2-6	6	2	18	41823.0	41823.0	1.07%	0.27	0.06	0.33	1.71	32	4	2.04	NCHSHT
NAA0618_2-6	6	2	18	38048.6	38048.6	0.17%	0.26	0.08	0.35	2.17	40	5	2.52	NCHSHT
NAA0718_2-6	6	2	18	38215.2	38215.2	0.25%	0.29	0.06	0.35	1.51	24	3	1.86	NCHSHT
NAA0818_2-6	6	2	18	31699.7	31699.7	1.41%	0.21	0.04	0.25	1.11	24	3	1.36	NCHSHT
NAA0918_2-6	6	2	18	35230.0	35230.0	0.21%	0.20	0.11	0.31	2.24	32	4	2.55	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%	0.18	0.03	0.21	0.18	10	2	0.39	NCHSHT
NAA016_2-12	12	2	6	24795.8	24795.8	4.55%	0.17	0.04	0.21	0.75	15	3	0.97	NCHSHT
NAA026_2-12	12	2	6	25321.1	25321.1	2.35%	0.15	0.03	0.18	0.39	10	2	0.57	NCHSHT
NAA036_2-12	12	2	6	28961.2	28961.2	0.00%	0.11	0.03	0.14	0.25	10	2	0.39	NCHSHT
NAA046_2-12	12	2	6	24860.2	24860.2	0.25%	0.14	0.03	0.17	0.52	15	3	0.69	NCHSHT
NAA056_2-12	12	2	6	28598.2	28598.2	0.29%	0.15	0.03	0.18	0.42	10	2	0.60	NCHSHT
NAA066_2-12	12	2	6	25080.1	25080.1	0.85%	0.14	0.04	0.18	0.40	10	2	0.58	NCHSHT
NAA076_2-12	12	2	6	25279.3	25279.3	1.11%	0.11	0.02	0.13	0.52	15	3	0.66	NCHSHT
NAA086_2-12	12	2	6	22924.5	22924.5	0.17%	0.13	0.03	0.16	0.62	20	4	0.78	NCHSHT
NAA096_2-12	12	2	6	26778.7	26778.7	1.03%	0.12	0.04	0.16	1.21	20	4	1.37	NCHSHT
NAA0012_2-12	12	2	12	40452.4	40452.4	0.15%	0.20	0.05	0.25	1.51	18	3	1.77	NCHSHT
NAA0112_2-12	12	2	12	41319.6	41319.6	0.09%	0.21	0.05	0.26	2.66	42	7	2.92	NCHSHT
NAA0212_2-12	12	2	12	43390.7	43390.7	0.88%	0.25	0.05	0.30	1.03	24	4	1.33	NCHSHT
NAA0312_2-12	12	2	12	52618.5	52618.5	0.36%	0.25	0.05	0.31	1.36	18	3	1.67	NCHSHT
NAA0412_2-12	12	2	12	45187.6	45187.6	0.69%	0.24	0.05	0.29	1.86	24	4	2.16	NCHSHT
NAA0512_2-12	12	2	12	51892.1	51892.1	0.95%	0.29	0.04	0.34	2.56	18	3	2.90	NCHSHT
NAA0612_2-12	12	2	12	45304.2	45304.2	0.93%	0.37	0.09	0.46	3.30	30	5	3.76	NCHSHT
NAA0712_2-12	12	2	12	47067.7	47067.7	0.86%	0.20	0.05	0.25	0.52	12	2	0.78	NCHSHT
NAA0812_2-12	12	2	12	41818.7	41818.7	0.70%	0.22	0.07	0.29	1.18	18	3	1.47	NCHSHT
NAA0912_2-12	12	2	12	49747.8	49747.8	0.28%	0.28	0.04	0.33	2.48	24	4	2.81	NCHSHT
NAA0018_2-12	12	2	18	59847.9	59847.9	0.22%	0.62	0.07	0.69	4.11	24	3	4.81	NCHSHT
NAA0118_2-12	12	2	18	61694.9	61694.9	0.58%	0.35	0.07	0.43	12.23	32	4	12.66	NCHSHT
NAA0218_2-12	12	2	18	64850.6	64850.6	0.52%	0.49	0.06	0.55	9.88	48	6	10.44	NCHSHT
NAA0318_2-12	12	2	18	74857.6	74857.6	0.29%	0.30	0.09	0.40	7.74	40	5	8.14	NCHSHT
NAA0418_2-12	12	2	18	67484.0	67484.0	0.71%	0.41	0.06	0.47	10.32	32	4	10.80	NCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0518_2-12	12	2	18	73481.6	73481.6	0.04%	0.41	0.12	0.53	20.34	40	5	20.88	NCHSHT
NAA0618_2-12	12	2	18	65632.7	65632.7	1.15%	0.30	0.07	0.37	8.19	32	4	8.56	NCHSHT
NAA0718_2-12	12	2	18	67357.6	67357.6	0.07%	0.34	0.08	0.42	2.42	24	3	2.84	NCHSHT
NAA0818_2-12	12	2	18	63981.6	63981.6	0.03%	0.28	0.05	0.34	11.71	32	4	12.05	NCHSHT
NAA0918_2-12	12	2	18	72425.7	72425.7	0.56%	0.39	0.12	0.52	17.13	32	4	17.65	NCHSHT
NAA006_2-25	25	2	6	47710.7	47710.7	0.13%	0.23	0.02	0.26	1.02	15	3	1.28	NCHSHT
NAA016_2-25	25	2	6	48940.4	48940.4	0.55%	0.20	0.03	0.23	0.67	10	2	0.91	NCHSHT
NAA026_2-25	25	2	6	50989.0	50989.0	0.42%	0.25	0.03	0.29	1.51	15	3	1.79	NCHSHT
NAA036_2-25	25	2	6	52946.6	52946.6	0.54%	0.22	0.03	0.26	2.15	15	3	2.40	NCHSHT
NAA046_2-25	25	2	6	53551.6	53551.6	0.03%	0.24	0.03	0.27	1.35	10	2	1.63	NCHSHT
NAA056_2-25	25	2	6	56550.7	56550.7	0.28%	0.29	0.06	0.35	4.50	20	4	4.85	NCHSHT
NAA066_2-25	25	2	6	46110.2	46110.2	0.35%	0.23	0.04	0.27	1.05	15	3	1.32	NCHSHT
NAA076_2-25	25	2	6	51567.0	51567.0	0.46%	0.26	0.06	0.32	2.01	10	2	2.32	NCHSHT
NAA086_2-25	25	2	6	53877.4	53877.4	0.05%	0.23	0.02	0.25	1.02	15	3	1.27	NCHSHT
NAA096_2-25	25	2	6	58995.8	58995.8	0.10%	0.24	0.05	0.29	1.09	10	2	1.38	NCHSHT
NAA0012_2-25	25	2	12	88650.4	88650.4	0.23%	0.41	0.09	0.50	6.19	24	4	6.69	NCHSHT
NAA0112_2-25	25	2	12	94126.3	94126.3	0.40%	0.48	0.11	0.59	16.15	24	4	16.74	NCHSHT
NAA0212_2-25	25	2	12	90643.3	90643.3	0.42%	0.39	0.11	0.50	14.64	24	4	15.14	NCHSHT
NAA0312_2-25	25	2	12	94310.1	94310.1	0.11%	0.42	0.08	0.50	9.29	30	5	9.79	NCHSHT
NAA0412_2-25	25	2	12	93287.1	93287.1	0.46%	0.36	0.08	0.45	6.83	18	3	7.28	NCHSHT
NAA0512_2-25	25	2	12	106064.9	106064.9	0.64%	0.51	0.09	0.61	20.27	30	5	20.88	NCHSHT
NAA0612_2-25	25	2	12	90069.7	90069.7	0.34%	0.40	0.05	0.46	2.94	18	3	3.40	NCHSHT
NAA0712_2-25	25	2	12	95902.4	95902.4	0.06%	0.41	0.05	0.46	2.34	18	3	2.80	NCHSHT
NAA0812_2-25	25	2	12	98231.2	98231.2	0.37%	0.51	0.07	0.59	6.05	18	3	6.64	NCHSHT
NAA0912_2-25	25	2	12	103289.8	103289.8	0.24%	0.39	0.07	0.46	19.49	30	5	19.95	NCHSHT
NAA0018_2-25	25	2	18	128947.4	128947.4	0.16%	0.59	0.09	0.68	71.14	64	8	71.83	NCHSHT
NAA0118_2-25	25	2	18	133023.1	133023.1	0.42%	0.74	0.12	0.86	21.46	40	5	22.33	NCHSHT
NAA0218_2-25	25	2	18	130569.2	130569.2	0.62%	0.63	0.16	0.79	33.91	32	4	34.70	NCHSHT
NAA0318_2-25	25	2	18	142301.2	142301.2	0.23%	0.48	0.14	0.63	32.75	32	4	33.38	NCHSHT
NAA0418_2-25	25	2	18	136953.0	136953.0	0.50%	0.65	0.09	0.74	33.35	24	3	34.09	NCHSHT
NAA0518_2-25	25	2	18	148738.0	148738.0	0.36%	0.66	0.16	0.82	53.40	48	6	54.23	NCHSHT
NAA0618_2-25	25	2	18	126961.9	126961.9	0.18%	0.48	0.10	0.58	13.98	40	5	14.56	NCHSHT
NAA0718_2-25	25	2	18	140912.7	140912.7	0.44%	0.86	0.09	0.95	57.24	40	5	58.20	NCHSHT
NAA0818_2-25	25	2	18	139470.6	139470.6	0.35%	0.59	0.13	0.72	48.21	40	5	48.93	NCHSHT
NAA0918_2-25	25	2	18	148373.2	148373.2	0.45%	0.70	0.11	0.81	50.81	56	7	51.62	NCHSHT
NAA006_2-50	50	2	6	94162.4	94162.4	0.17%	0.40	0.04	0.44	3.63	15	3	4.07	NCHSHT
NAA016_2-50	50	2	6	97938.2	97938.2	0.04%	0.36	0.04	0.41	0.81	10	2	1.22	NCHSHT
NAA026_2-50	50	2	6	94534.9	94534.9	0.11%	0.37	0.07	0.44	1.64	10	2	2.09	NCHSHT
NAA036_2-50	50	2	6	102700.3	102700.3	0.21%	0.36	0.06	0.42	1.80	15	3	2.23	NCHSHT
NAA046_2-50	50	2	6	106632.4	106632.4	0.10%	0.44	0.06	0.50	6.14	15	3	6.65	NCHSHT
NAA056_2-50	50	2	6	104507.6	104507.6	0.10%	0.37	0.05	0.43	5.71	15	3	6.14	NCHSHT
NAA066_2-50	50	2	6	94629.5	94629.5	0.21%	0.36	0.06	0.42	2.14	15	3	2.56	NCHSHT
NAA076_2-50	50	2	6	101554.2	101554.2	0.16%	0.41	0.06	0.48	4.18	15	3	4.66	NCHSHT
NAA086_2-50	50	2	6	99680.4	99680.4	0.10%	0.40	0.03	0.44	1.22	10	2	1.66	NCHSHT
NAA096_2-50	50	2	6	102925.7	102925.7	0.09%	0.42	0.07	0.49	2.03	15	3	2.52	NCHSHT
NAA0012_2-50	50	2	12	176391.4	176391.4	0.05%	0.54	0.08	0.63	10.86	18	3	11.49	NCHSHT
NAA0112_2-50	50	2	12	184217.1	184217.1	0.05%	0.75	0.12	0.87	5.73	18	3	6.61	NCHSHT
NAA0212_2-50	50	2	12	176664.7	176664.7	0.27%	0.59	0.13	0.73	19.78	24	4	20.51	NCHSHT
NAA0312_2-50	50	2	12	189719.2	189719.2	0.09%	0.52	0.07	0.60	11.67	30	5	12.27	NCHSHT
NAA0412_2-50	50	2	12	194712.2	194712.2	0.36%	0.78	0.17	0.96	36.87	24	4	37.83	NCHSHT
NAA0512_2-50	50	2	12	192982.6	192982.6	0.23%	0.61	0.14	0.75	24.95	24	4	25.70	NCHSHT
NAA0612_2-50	50	2	12	174251.3	174251.3	0.10%	0.75	0.10	0.86	5.87	12	2	6.73	NCHSHT
NAA0712_2-50	50	2	12	184106.8	184106.8	0.13%	0.66	0.12	0.79	20.11	18	3	20.90	NCHSHT
NAA0812_2-50	50	2	12	179236.2	179236.2	0.05%	0.62	0.13	0.75	16.12	24	4	16.87	NCHSHT
NAA0912_2-50	50	2	12	189946.1	189946.1	0.15%	0.67	0.10	0.77	24.90	24	4	25.68	NCHSHT
NAA0018_2-50	50	2	18	259437.5	259437.5	0.17%	0.72	0.12	0.85	31.95	24	3	32.80	NCHSHT
NAA0118_2-50	50	2	18	267713.0	267713.0	0.03%	1.03	0.15	1.19	25.19	32	4	26.38	NCHSHT
NAA0218_2-50	50	2	18	255687.3	255687.3	0.07%	0.91	0.21	1.12	31.80	32	4	32.93	NCHSHT
NAA0318_2-50	50	2	18	278974.6	278974.6	0.08%	0.74	0.15	0.90	49.25	40	5	50.15	NCHSHT
NAA0418_2-50	50	2	18	283376.6	283376.6	0.28%	1.36	0.20	1.57	93.67	32	4	95.25	NCHSHT
NAA0518_2-50	50	2	18	282815.3	282815.3	0.16%	0.90	0.15	1.06	76.99	48	6	78.05	NCHSHT
NAA0618_2-50	50	2	18	256044.4	256044.4	0.11%	0.82	0.18	1.00	38.55	24	3	39.55	NCHSHT
NAA0718_2-50	50	2	18	268772.9	268772.9	0.09%	1.14	0.21	1.35	57.94	32	4	59.29	NCHSHT
NAA0818_2-50	50	2	18	262960.2	262960.2	0.09%	0.97	0.18	1.15	52.94	32	4	54.09	NCHSHT
NAA0918_2-50	50	2	18	277406.2	277406.2	0.19%	1.16	0.17	1.34	91.44	40	5	92.78	NCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%	0.10	0.03	0.14	0.32	20	4	0.46	NCHSHT
NAA016_4-6	6	4	6	11099.4	11099.4	0.00%	0.17	0.05	0.22	0.52	15	3	0.74	NCHSHT
NAA026_4-6	6	4	6	11626.9	11626.9	0.00%	0.15	0.05	0.20	0.30	15	3	0.51	NCHSHT
NAA036_4-6	6	4	6	12363.4	12363.4	1.74%	0.13	0.03	0.16	0.31	15	3	0.47	NCHSHT
NAA046_4-6	6	4	6	9742.8	9742.8	0.00%	0.12	0.03	0.16	0.38	15	3	0.54	NCHSHT
NAA056_4-6	6	4	6	14887.4	14887.4	0.35%	0.13	0.04	0.18	0.30	15	3	0.48	NCHSHT
NAA066_4-6	6	4	6	12164.4	12164.4	4.32%	0.13	0.04	0.17	0.32	10	2	0.49	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%	0.11	0.03	0.14	0.18	15	3	0.32	NCHSHT
NAA086_4-6	6	4	6	9912.3	9912.3	2.37%	0.11	0.04	0.15	0.28	15	3	0.43	NCHSHT
NAA096_4-6	6	4	6	14288.8	14288.8	0.12%	0.11	0.03	0.14	0.24	15	3	0.38	NCHSHT
NAA0012_4-6	6	4	12	17270.0	17270.0	0.29%	0.20	0.08	0.28	0.80	18	3	1.09	NCHSHT
NAA0112_4-6	6	4	12	23775.5	23775.5	1.25%	0.35	0.12	0.47	1.27	18	3	1.74	NCHSHT
NAA0212_4-6	6	4	12	21965.8	21965.8	0.15%	0.30	0.15	0.45	1.34	24	4	1.80	NCHSHT
NAA0312_4-6	6	4	12	24528.1	24528.1	0.97%	0.23	0.07	0.30	0.75	24	4	1.05	NCHSHT
NAA0412_4-6	6	4	12	22452.4	22452.4	3.05%	0.49	0.07	0.56	1.24	18	3	1.80	NCHSHT
NAA0512_4-6	6	4	12	29316.1	29316.1	1.38%	0.26	0.09	0.35	0.96	18	3	1.31	NCHSHT
NAA0612_4-6	6	4	12	20752.0	20752.0	0.88%	0.24	0.12	0.36	0.63	18	3	0.99	NCHSHT
NAA0712_4-6	6	4	12	23869.1	23869.1	1.55%	0.20	0.08	0.28	1.28	24	4	1.57	NCHSHT
NAA0812_4-6	6	4	12	18971.7	18971.7	0.20%	0.24	0.10	0.34	1.72	18	3	2.06	NCHSHT
NAA0912_4-6	6	4	12	25464.7	25464.7	0.50%	0.24	0.05	0.29	1.05	30	5	1.35	NCHSHT
NAA0018_4-6	6	4	18	26597.2	26597.2	0.05%	0.45	0.11	0.56	4.68	48	6	5.24	NCHSHT
NAA0118_4-6	6	4	18	31982.4	31982.4	0.26%	0.63	0.15	0.79	2.85	32	4	3.64	NCHSHT
NAA0218_4-6	6	4	18	31622.4	31622.4	0.04%	0.50	0.13	0.63	4.24	32	4	4.87	NCHSHT
NAA0318_4-6	6	4	18	36871.5	36871.5	0.39%	0.43	0.11	0.54	2.60	32	4	3.14	NCHSHT
NAA0418_4-6	6	4	18	33974.1	33974.1	2.68%	0.48	0.11	0.60	6.32	32	4	6.91	NCHSHT
NAA0518_4-6	6	4	18	41529.0	41529.0	1.01%	0.39	0.17	0.56	2.46	24	3	3.03	NCHSHT
NAA0618_4-6	6	4	18	32611.6	32611.6	1.42%	0.50	0.16	0.67	2.98	32	4	3.65	NCHSHT
NAA0718_4-6	6	4	18	35443.2	35443.2	0.67%	0.29	0.12	0.41	3.72	32	4	4.14	NCHSHT
NAA0818_4-6	6	4	18	27227.8	27227.8	0.14%	0.33	0.14	0.47	2.08	32	4	2.56	NCHSHT
NAA0918_4-6	6	4	18	37581.3	37581.3	0.80%	0.49	0.11	0.60	2.25	24	3	2.85	NCHSHT
NAA006_4-12	12	4	6	19735.5	19735.5	0.00%	0.17	0.02	0.19	1.28	15	3	1.47	NCHSHT
NAA016_4-12	12	4	6	22893.0	22893.0	0.13%	0.22	0.05	0.28	6.35	20	4	6.63	NCHSHT
NAA026_4-12	12	4	6	18460.3	18460.3	0.06%	0.15	0.04	0.19	0.31	15	3	0.50	NCHSHT
NAA036_4-12	12	4	6	20188.0	20188.0	0.06%	0.18	0.05	0.23	0.73	20	4	0.96	NCHSHT
NAA046_4-12	12	4	6	22830.2	22830.2	1.09%	0.19	0.06	0.25	0.94	15	3	1.19	NCHSHT
NAA056_4-12	12	4	6	24081.1	24081.1	2.02%	0.17	0.04	0.21	1.55	20	4	1.76	NCHSHT
NAA066_4-12	12	4	6	20638.1	20638.1	0.34%	0.15	0.05	0.19	0.43	15	3	0.62	NCHSHT
NAA076_4-12	12	4	6	20971.4	20971.4	1.05%	0.16	0.06	0.22	5.00	15	3	5.22	NCHSHT
NAA086_4-12	12	4	6	22620.1	22620.1	1.28%	0.14	0.03	0.17	0.85	20	4	1.03	NCHSHT
NAA096_4-12	12	4	6	21886.8	21886.8	2.44%	0.19	0.06	0.25	1.90	20	4	2.14	NCHSHT
NAA0012_4-12	12	4	12	35750.6	35750.6	0.16%	0.29	0.13	0.42	4.83	24	4	5.25	NCHSHT
NAA0112_4-12	12	4	12	40654.2	40654.2	0.54%	0.65	0.13	0.78	14.57	36	6	15.36	NCHSHT
NAA0212_4-12	12	4	12	37180.4	37180.4	0.92%	0.35	0.15	0.50	5.05	30	5	5.56	NCHSHT
NAA0312_4-12	12	4	12	40160.1	40160.1	1.11%	0.41	0.08	0.49	12.38	30	5	12.88	NCHSHT
NAA0412_4-12	12	4	12	41921.1	41921.1	0.54%	0.31	0.07	0.39	9.23	30	5	9.62	NCHSHT
NAA0512_4-12	12	4	12	45592.2	45592.2	1.67%	0.42	0.16	0.58	4.83	30	5	5.41	NCHSHT
NAA0612_4-12	12	4	12	39302.1	39302.1	1.46%	0.30	0.10	0.40	4.18	24	4	4.58	NCHSHT
NAA0712_4-12	12	4	12	41531.6	41531.6	0.26%	0.46	0.11	0.58	4.32	18	3	4.90	NCHSHT
NAA0812_4-12	12	4	12	41363.7	41363.7	0.41%	0.22	0.05	0.27	1.84	24	4	2.11	NCHSHT
NAA0912_4-12	12	4	12	43976.9	43976.9	1.03%	0.38	0.11	0.50	15.35	30	5	15.85	NCHSHT
NAA0018_4-12	12	4	18	54019.1	54019.1	0.31%	0.49	0.19	0.69	8.35	32	4	9.04	NCHSHT
NAA0118_4-12	12	4	18	59447.1	59447.1	0.68%	0.83	0.31	1.14	17.78	32	4	18.92	NCHSHT
NAA0218_4-12	12	4	18	53421.1	53421.1	0.04%	0.49	0.13	0.63	5.53	40	5	6.16	NCHSHT
NAA0318_4-12	12	4	18	61109.8	61109.8	0.95%	0.62	0.16	0.79	27.01	40	5	27.80	NCHSHT
NAA0418_4-12	12	4	18	61885.9	61885.9	1.04%	0.60	0.13	0.73	35.25	32	4	35.99	NCHSHT
NAA0518_4-12	12	4	18	66109.3	66109.3	1.61%	0.54	0.18	0.72	27.40	32	4	28.13	NCHSHT
NAA0618_4-12	12	4	18	58714.3	58714.3	0.78%	0.42	0.14	0.56	5.87	24	3	6.43	NCHSHT
NAA0718_4-12	12	4	18	63956.7	63956.7	0.86%	0.62	0.19	0.81	54.69	40	5	55.50	NCHSHT
NAA0818_4-12	12	4	18	62690.8	62690.8	0.25%	0.43	0.09	0.52	8.23	40	5	8.76	NCHSHT
NAA0918_4-12	12	4	18	63101.2	63101.2	1.25%	0.66	0.15	0.82	17.60	40	5	18.42	NCHSHT
NAA006_4-25	25	4	6	37111.4	37111.4	0.28%	0.27	0.13	0.40	4.80	20	4	5.20	NCHSHT
NAA016_4-25	25	4	6	45185.7	45185.7	0.40%	0.55	0.04	0.59	6.04	20	4	6.64	NCHSHT
NAA026_4-25	25	4	6	42627.0	42627.0	0.62%	0.33	0.13	0.46	8.38	20	4	8.84	NCHSHT
NAA036_4-25	25	4	6	42310.5	42310.5	0.72%	0.31	0.08	0.39	4.85	20	4	5.24	NCHSHT
NAA046_4-25	25	4	6	42985.4	42985.4	0.37%	0.31	0.05	0.36	2.45	15	3	2.81	NCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA056_4-25	25	4	6	47069.3	47069.3	0.30%	0.32	0.11	0.43	7.35	20	4	7.77	NCHSHT
NAA066_4-25	25	4	6	38256.6	38256.6	1.49%	0.25	0.06	0.32	1.48	20	4	1.80	NCHSHT
NAA076_4-25	25	4	6	42980.2	42980.2	0.59%	0.37	0.07	0.44	4.29	15	3	4.72	NCHSHT
NAA086_4-25	25	4	6	39752.9	39752.9	0.58%	0.31	0.09	0.40	4.71	15	3	5.11	NCHSHT
NAA096_4-25	25	4	6	45445.8	45445.8	0.38%	0.29	0.08	0.37	4.71	25	5	5.09	NCHSHT
NAA0012_4-25	25	4	12	74805.3	74805.3	0.41%	0.67	0.21	0.88	17.39	24	4	18.27	NCHSHT
NAA0112_4-25	25	4	12	83022.0	83022.0	1.05%	0.70	0.14	0.84	44.42	30	5	45.26	NCHSHT
NAA0212_4-25	25	4	12	78347.6	78347.6	0.83%	0.71	0.23	0.94	39.28	24	4	40.22	NCHSHT
NAA0312_4-25	25	4	12	83104.0	83104.0	0.52%	0.48	0.25	0.73	22.36	30	5	23.10	NCHSHT
NAA0412_4-25	25	4	12	83533.4	83533.4	0.53%	0.68	0.14	0.82	16.87	24	4	17.69	NCHSHT
NAA0512_4-25	25	4	12	86609.3	86609.3	0.71%	0.48	0.16	0.64	42.52	24	4	43.15	NCHSHT
NAA0612_4-25	25	4	12	73745.3	73745.3	0.53%	0.45	0.12	0.57	6.52	24	4	7.09	NCHSHT
NAA0712_4-25	25	4	12	83257.5	83257.5	0.24%	0.51	0.18	0.70	34.86	30	5	35.56	NCHSHT
NAA0812_4-25	25	4	12	77958.4	77958.4	0.30%	0.58	0.17	0.76	21.61	24	4	22.37	NCHSHT
NAA0912_4-25	25	4	12	84282.6	84282.6	0.21%	0.46	0.10	0.56	6.90	18	3	7.47	NCHSHT
NAA0018_4-25	25	4	18	108691.4	108691.4	0.38%	1.29	0.17	1.47	31.04	32	4	32.52	NCHSHT
NAA0118_4-25	25	4	18	120541.5	120541.5	0.48%	1.04	0.36	1.40	90.37	48	6	91.77	NCHSHT
NAA0218_4-25	25	4	18	117103.8	117103.8	0.93%	1.18	0.31	1.50	87.82	40	5	89.32	NCHSHT
NAA0318_4-25	25	4	18	121284.5	121284.5	0.49%	1.11	0.39	1.50	48.04	40	5	49.54	NCHSHT
NAA0418_4-25	25	4	18	123762.8	123762.8	0.47%	1.15	0.28	1.43	57.98	40	5	59.42	NCHSHT
NAA0518_4-25	25	4	18	125179.2	125179.2	0.36%	1.05	0.31	1.37	47.46	32	4	48.83	NCHSHT
NAA0618_4-25	25	4	18	110399.2	110399.2	0.13%	0.60	0.13	0.73	31.39	40	5	32.13	NCHSHT
NAA0718_4-25	25	4	18	121957.8	121957.8	0.33%	0.85	0.26	1.11	46.41	48	6	47.52	NCHSHT
NAA0818_4-25	25	4	18	112340.2	112340.2	0.37%	1.28	0.11	1.40	57.98	48	6	59.38	NCHSHT
NAA0918_4-25	25	4	18	124219.0	124219.0	0.29%	1.01	0.28	1.29	26.97	24	3	28.27	NCHSHT
NAA006_4-50	50	4	6	80627.5	80627.5	0.14%	0.52	0.10	0.63	17.89	25	5	18.52	NCHSHT
NAA016_4-50	50	4	6	83557.1	83557.1	0.06%	0.52	0.10	0.63	14.75	15	3	15.39	NCHSHT
NAA026_4-50	50	4	6	85825.7	85825.7	0.25%	0.56	0.08	0.64	19.01	15	3	19.65	NCHSHT
NAA036_4-50	50	4	6	86409.2	86409.2	0.09%	0.53	0.09	0.62	11.94	20	4	12.56	NCHSHT
NAA046_4-50	50	4	6	92652.5	92652.5	0.27%	0.90	0.17	1.07	25.15	15	3	26.22	NCHSHT
NAA056_4-50	50	4	6	87699.6	87699.6	0.48%	0.59	0.07	0.66	20.91	25	5	21.57	NCHSHT
NAA066_4-50	50	4	6	78939.6	78939.6	0.11%	0.50	0.09	0.59	4.95	10	2	5.54	NCHSHT
NAA076_4-50	50	4	6	82469.7	82469.7	0.13%	0.55	0.12	0.67	11.58	20	4	12.25	NCHSHT
NAA086_4-50	50	4	6	82346.8	82346.8	0.18%	0.50	0.12	0.63	14.70	25	5	15.33	NCHSHT
NAA096_4-50	50	4	6	93672.1	93672.1	0.13%	0.46	0.11	0.58	5.86	15	3	6.44	NCHSHT
NAA0012_4-50	50	4	12	158433.1	158433.1	0.15%	1.12	0.22	1.34	54.40	30	5	55.75	NCHSHT
NAA0112_4-50	50	4	12	156435.0	156435.0	0.09%	0.82	0.32	1.14	18.00	18	3	19.15	NCHSHT
NAA0212_4-50	50	4	12	157923.0	157923.0	0.39%	1.13	0.29	1.43	68.81	30	5	70.24	NCHSHT
NAA0312_4-50	50	4	12	165135.6	165135.6	0.14%	0.88	0.15	1.03	27.44	18	3	28.47	NCHSHT
NAA0412_4-50	50	4	12	169529.1	169529.1	0.28%	1.18	0.25	1.44	58.64	30	5	60.08	NCHSHT
NAA0512_4-50	50	4	12	163818.0	163818.0	0.21%	1.00	0.19	1.20	48.75	24	4	49.96	NCHSHT
NAA0612_4-50	50	4	12	149646.1	149646.1	0.04%	0.65	0.13	0.78	10.95	24	4	11.73	NCHSHT
NAA0712_4-50	50	4	12	160477.9	160477.9	0.15%	1.02	0.15	1.18	37.35	24	4	38.53	NCHSHT
NAA0812_4-50	50	4	12	156273.2	156273.2	0.24%	1.19	0.20	1.39	20.28	18	3	21.67	NCHSHT
NAA0912_4-50	50	4	12	171740.0	171740.0	0.09%	0.95	0.18	1.14	20.07	24	4	21.21	NCHSHT
NAA0018_4-50	50	4	18	227109.6	227109.6	0.14%	1.22	0.33	1.56	67.01	40	5	68.57	NCHSHT
NAA0118_4-50	50	4	18	231351.4	231351.4	0.10%	1.57	0.37	1.94	32.86	32	4	34.80	NCHSHT
NAA0218_4-50	50	4	18	236348.2	236348.2	0.25%	1.70	0.43	2.14	63.23	32	4	65.37	NCHSHT
NAA0318_4-50	50	4	18	242009.6	242009.6	0.12%	1.66	0.26	1.93	42.70	40	5	44.64	NCHSHT
NAA0418_4-50	50	4	18	251677.3	251677.3	0.24%	1.75	0.69	2.45	107.78	40	5	110.24	NCHSHT
NAA0518_4-50	50	4	18	242803.3	242803.3	0.21%	1.37	0.33	1.70	78.06	40	5	79.77	NCHSHT
NAA0618_4-50	50	4	18	223255.5	223255.5	0.09%	1.07	0.33	1.41	51.18	40	5	52.60	NCHSHT
NAA0718_4-50	50	4	18	239593.0	239593.0	0.28%	1.66	0.26	1.93	107.20	40	5	109.14	NCHSHT
NAA0818_4-50	50	4	18	226915.0	226915.0	0.08%	1.44	0.30	1.75	37.62	32	4	39.38	NCHSHT
NAA0918_4-50	50	4	18	250516.9	250516.9	0.08%	1.32	0.22	1.55	72.06	40	5	73.61	NCHSHT
NAA006_6-6	6	6	6	9241.8	9241.8	1.91%	0.16	0.03	0.19	0.54	15	3	0.73	NCHSHT
NAA016_6-6	6	6	6	12154.6	12154.6	0.28%	0.20	0.15	0.35	0.56	15	3	0.91	NCHSHT
NAA026_6-6	6	6	6	11161.7	11161.7	0.00%	0.16	0.11	0.28	0.36	20	4	0.64	NCHSHT
NAA036_6-6	6	6	6	13623.7	13623.7	0.02%	0.16	0.06	0.22	0.27	15	3	0.49	NCHSHT
NAA046_6-6	6	6	6	13579.2	13579.2	1.67%	0.19	0.07	0.26	0.55	15	3	0.81	NCHSHT
NAA056_6-6	6	6	6	16566.9	16566.9	5.62%	0.14	0.08	0.22	0.95	20	4	1.17	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%	0.12	0.05	0.17	0.42	15	3	0.59	NCHSHT
NAA076_6-6	6	6	6	14371.7	14371.7	1.98%	0.16	0.06	0.22	0.21	10	2	0.42	NCHSHT
NAA086_6-6	6	6	6	13563.7	13563.7	0.82%	0.19	0.07	0.26	0.63	20	4	0.89	NCHSHT
NAA096_6-6	6	6	6	15788.0	15788.0	4.04%	0.18	0.06	0.25	0.58	20	4	0.83	NCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0012_6-6	6	6	12	18934.6	18934.6	0.16%	0.37	0.12	0.49	1.86	30	5	2.35	NCHSHT
NAA0112_6-6	6	6	12	22755.5	22755.5	0.18%	0.39	0.24	0.63	1.24	18	3	1.88	NCHSHT
NAA0212_6-6	6	6	12	23015.2	23015.2	0.30%	0.39	0.17	0.56	1.94	24	4	2.50	NCHSHT
NAA0312_6-6	6	6	12	26291.6	26291.6	0.88%	0.64	0.16	0.80	1.23	18	3	2.03	NCHSHT
NAA0412_6-6	6	6	12	25784.6	25784.6	1.18%	0.45	0.25	0.70	1.72	18	3	2.42	NCHSHT
NAA0512_6-6	6	6	12	27174.0	27174.0	1.83%	0.29	0.12	0.42	1.43	18	3	1.85	NCHSHT
NAA0612_6-6	6	6	12	22121.8	22121.8	1.44%	0.37	0.10	0.48	1.16	24	4	1.63	NCHSHT
NAA0712_6-6	6	6	12	27796.5	27796.5	2.11%	0.37	0.13	0.50	5.27	36	6	5.77	NCHSHT
NAA0812_6-6	6	6	12	25132.9	25132.9	1.78%	0.41	0.23	0.65	1.61	24	4	2.26	NCHSHT
NAA0912_6-6	6	6	12	27934.1	27934.1	0.40%	0.40	0.19	0.59	0.87	18	3	1.46	NCHSHT
NAA0018_6-6	6	6	18	28323.1	28323.1	1.34%	0.80	0.16	0.96	5.37	32	4	6.34	NCHSHT
NAA0118_6-6	6	6	18	34878.1	34878.1	0.61%	0.80	0.34	1.14	3.52	24	3	4.66	NCHSHT
NAA0218_6-6	6	6	18	31395.7	31395.7	0.06%	0.69	0.32	1.02	2.78	24	3	3.79	NCHSHT
NAA0318_6-6	6	6	18	36418.8	36418.8	0.52%	0.80	0.49	1.29	5.03	48	6	6.32	NCHSHT
NAA0418_6-6	6	6	18	37124.4	37124.4	0.33%	1.31	0.30	1.61	6.92	40	5	8.53	NCHSHT
NAA0518_6-6	6	6	18	41476.6	41476.6	0.85%	0.73	0.17	0.91	6.78	32	4	7.69	NCHSHT
NAA0618_6-6	6	6	18	32488.6	32488.6	0.75%	0.47	0.12	0.60	3.73	24	3	4.33	NCHSHT
NAA0718_6-6	6	6	18	40358.6	40358.6	1.34%	0.66	0.22	0.89	5.28	32	4	6.17	NCHSHT
NAA0818_6-6	6	6	18	40021.8	40021.8	1.57%	0.91	0.26	1.18	6.92	32	4	8.10	NCHSHT
NAA0918_6-6	6	6	18	42540.3	42540.3	0.21%	0.82	0.33	1.16	4.93	32	4	6.09	NCHSHT
NAA006_6-12	12	6	6	20344.1	20344.1	1.62%	0.23	0.06	0.30	1.00	15	3	1.30	NCHSHT
NAA016_6-12	12	6	6	20727.1	20727.1	2.47%	0.24	0.17	0.41	1.80	10	2	2.21	NCHSHT
NAA026_6-12	12	6	6	19338.6	19338.6	1.96%	0.22	0.09	0.31	0.73	15	3	1.04	NCHSHT
NAA036_6-12	12	6	6	20085.6	20085.6	0.47%	0.19	0.08	0.28	1.67	20	4	1.95	NCHSHT
NAA046_6-12	12	6	6	18596.0	18596.0	0.56%	0.20	0.08	0.29	0.31	10	2	0.60	NCHSHT
NAA056_6-12	12	6	6	20306.7	20306.7	2.07%	0.21	0.08	0.29	2.73	20	4	3.02	NCHSHT
NAA066_6-12	12	6	6	18236.9	18236.9	1.71%	0.19	0.09	0.28	0.79	15	3	1.07	NCHSHT
NAA076_6-12	12	6	6	23373.6	23373.6	1.26%	0.27	0.06	0.33	1.90	20	4	2.23	NCHSHT
NAA086_6-12	12	6	6	20409.6	20409.6	0.67%	0.24	0.05	0.29	1.45	20	4	1.74	NCHSHT
NAA096_6-12	12	6	6	24032.2	24032.2	1.98%	0.27	0.09	0.36	7.15	20	4	7.52	NCHSHT
NAA0012_6-12	12	6	12	37514.2	37514.2	0.70%	0.49	0.14	0.63	3.76	30	5	4.39	NCHSHT
NAA0112_6-12	12	6	12	39451.2	39451.2	0.40%	0.52	0.18	0.70	3.37	24	4	4.07	NCHSHT
NAA0212_6-12	12	6	12	37288.0	37288.0	1.25%	0.69	0.22	0.91	37.35	24	4	38.27	NCHSHT
NAA0312_6-12	12	6	12	39887.2	39887.2	0.50%	0.48	0.16	0.65	5.59	24	4	6.24	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%	0.49	0.15	0.64	3.44	18	3	4.09	NCHSHT
NAA0512_6-12	12	6	12	41516.6	41516.6	1.52%	0.47	0.15	0.62	59.99	42	7	60.61	NCHSHT
NAA0612_6-12	12	6	12	34471.7	34471.7	0.55%	0.48	0.11	0.60	2.99	30	5	3.59	NCHSHT
NAA0712_6-12	12	6	12	45944.7	45944.7	1.40%	0.58	0.24	0.82	9.72	18	3	10.54	NCHSHT
NAA0812_6-12	12	6	12	38251.9	38251.9	0.55%	0.55	0.29	0.85	5.33	30	5	6.19	NCHSHT
NAA0912_6-12	12	6	12	43451.3	43451.3	0.71%	0.49	0.21	0.70	11.19	36	6	11.89	NCHSHT
NAA0018_6-12	12	6	18	56300.3	56300.3	1.05%	1.23	0.29	1.52	18.48	32	4	20.00	NCHSHT
NAA0118_6-12	12	6	18	61047.5	61047.5	0.89%	0.93	0.29	1.22	17.58	40	5	18.80	NCHSHT
NAA0218_6-12	12	6	18	54547.2	54547.2	0.19%	0.91	0.26	1.17	13.52	32	4	14.70	NCHSHT
NAA0318_6-12	12	6	18	56964.7	56964.7	0.39%	0.62	0.48	1.10	11.27	40	5	12.38	NCHSHT
NAA0418_6-12	12	6	18	52291.3	52291.3	0.37%	0.90	0.51	1.42	12.69	48	6	14.11	NCHSHT
NAA0518_6-12	12	6	18	61938.8	61938.8	1.07%	0.81	0.27	1.08	8.81	32	4	9.89	NCHSHT
NAA0618_6-12	12	6	18	53949.7	53949.7	0.22%	1.14	0.18	1.32	6.56	32	4	7.89	NCHSHT
NAA0718_6-12	12	6	18	66784.4	66784.4	1.38%	1.11	0.58	1.70	51.24	40	5	52.94	NCHSHT
NAA0818_6-12	12	6	18	56850.8	56850.8	1.27%	1.07	0.27	1.35	17.76	32	4	19.11	NCHSHT
NAA0918_6-12	12	6	18	64933.1	64933.1	0.89%	0.95	0.48	1.43	26.82	40	5	28.25	NCHSHT
NAA006_6-25	25	6	6	39224.1	39224.1	0.71%	0.48	0.14	0.63	21.91	15	3	22.54	NCHSHT
NAA016_6-25	25	6	6	39639.9	39639.9	0.56%	0.37	0.15	0.52	22.98	30	6	23.51	NCHSHT
NAA026_6-25	25	6	6	41170.8	41170.8	0.24%	0.48	0.14	0.63	9.71	20	4	10.34	NCHSHT
NAA036_6-25	25	6	6	40456.3	40456.3	0.36%	0.56	0.27	0.83	10.59	20	4	11.42	NCHSHT
NAA046_6-25	25	6	6	42298.5	42298.5	0.15%	0.55	0.12	0.67	1.77	15	3	2.44	NCHSHT
NAA056_6-25	25	6	6	40378.5	40378.5	1.17%	0.38	0.10	0.48	20.60	20	4	21.08	NCHSHT
NAA066_6-25	25	6	6	38492.0	38492.0	0.15%	0.38	0.10	0.49	8.94	25	5	9.43	NCHSHT
NAA076_6-25	25	6	6	42461.8	42461.8	0.34%	0.54	0.07	0.61	4.10	20	4	4.71	NCHSHT
NAA086_6-25	25	6	6	40326.8	40326.8	0.73%	0.42	0.15	0.57	9.76	20	4	10.33	NCHSHT
NAA096_6-25	25	6	6	42315.6	42315.6	1.42%	0.48	0.11	0.59	11.15	30	6	11.74	NCHSHT
NAA0012_6-25	25	6	12	76721.6	76721.6	1.16%	0.84	0.29	1.14	43.37	30	5	44.51	NCHSHT
NAA0112_6-25	25	6	12	79052.5	79052.5	1.21%	1.15	0.58	1.73	57.05	30	5	58.78	NCHSHT
NAA0212_6-25	25	6	12	80235.6	80235.6	1.25%	1.12	0.23	1.36	34.97	24	4	36.33	NCHSHT
NAA0312_6-25	25	6	12	77465.6	77465.6	0.91%	0.97	0.25	1.23	86.99	42	7	88.22	NCHSHT
NAA0412_6-25	25	6	12	80738.1	80738.1	0.97%	0.90	0.33	1.23	58.38	30	5	59.62	NCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0512_6-25	25	6	12	76575.2	76575.2	0.90%	0.79	0.14	0.93	19.76	24	4	20.69	NCHSHT
NAA0612_6-25	25	6	12	73993.2	73993.2	0.78%	0.79	0.24	1.04	35.27	24	4	36.32	NCHSHT
NAA0712_6-25	25	6	12	77880.7	77880.7	0.50%	0.92	0.22	1.15	15.96	30	5	17.11	NCHSHT
NAA0812_6-25	25	6	12	74694.5	74694.5	0.41%	0.83	0.32	1.16	39.01	36	6	40.17	NCHSHT
NAA0912_6-25	25	6	12	82327.0	82327.0	1.20%	1.01	0.28	1.30	27.28	24	4	28.58	NCHSHT
NAA0018_6-25	25	6	18	111024.8	111024.8	0.93%	1.64	1.16	2.80	80.81	40	5	83.62	NCHSHT
NAA0118_6-25	25	6	18	117362.0	117362.0	1.07%	1.65	0.38	2.04	79.74	32	4	81.78	NCHSHT
NAA0218_6-25	25	6	18	119956.3	119956.3	0.71%	1.60	0.47	2.08	89.94	40	5	92.02	NCHSHT
NAA0318_6-25	25	6	18	116309.9	116309.9	0.87%	2.14	0.61	2.76	165.70	56	7	168.47	NCHSHT
NAA0418_6-25	25	6	18	119905.0	119905.0	0.48%	1.52	0.72	2.25	89.31	40	5	91.56	NCHSHT
NAA0518_6-25	25	6	18	117058.1	117058.1	0.46%	1.33	0.38	1.71	49.45	40	5	51.17	NCHSHT
NAA0618_6-25	25	6	18	108426.7	108426.7	0.61%	1.51	0.39	1.91	68.80	40	5	70.72	NCHSHT
NAA0718_6-25	25	6	18	114557.6	114557.6	0.36%	1.19	0.39	1.59	30.08	40	5	31.67	NCHSHT
NAA0818_6-25	25	6	18	108304.1	108304.1	0.92%	1.35	0.57	1.92	103.34	48	6	105.27	NCHSHT
NAA0918_6-25	25	6	18	122148.6	122148.6	1.08%	1.58	0.39	1.98	138.53	64	8	140.51	NCHSHT
NAA006_6-50	50	6	6	74042.9	74042.9	0.16%	0.63	0.28	0.92	14.73	15	3	15.66	NCHSHT
NAA016_6-50	50	6	6	76283.7	76283.7	0.39%	0.61	0.20	0.82	20.58	20	4	21.40	NCHSHT
NAA026_6-50	50	6	6	79033.4	79033.4	0.47%	0.72	0.17	0.90	62.64	20	4	63.55	NCHSHT
NAA036_6-50	50	6	6	77491.7	77491.7	0.01%	0.64	0.14	0.78	18.96	20	4	19.74	NCHSHT
NAA046_6-50	50	6	6	79531.5	79531.5	0.22%	0.92	0.27	1.20	20.58	15	3	21.78	NCHSHT
NAA056_6-50	50	6	6	79945.3	79945.3	0.25%	0.72	0.12	0.85	46.65	20	4	47.51	NCHSHT
NAA066_6-50	50	6	6	76773.7	76773.7	0.35%	0.96	0.40	1.37	32.07	20	4	33.44	NCHSHT
NAA076_6-50	50	6	6	80960.3	80960.3	0.16%	0.60	0.12	0.73	9.65	20	4	10.38	NCHSHT
NAA086_6-50	50	6	6	75696.5	75696.5	0.21%	0.65	0.17	0.82	24.36	25	5	25.19	NCHSHT
NAA096_6-50	50	6	6	76799.7	76799.7	0.16%	0.65	0.27	0.93	11.66	15	3	12.59	NCHSHT
NAA0012_6-50	50	6	12	144442.6	144442.6	0.06%	1.00	0.50	1.51	18.43	24	4	19.95	NCHSHT
NAA0112_6-50	50	6	12	147576.7	147576.7	0.27%	1.20	0.51	1.71	62.07	30	5	63.79	NCHSHT
NAA0212_6-50	50	6	12	152038.0	152038.0	0.27%	1.51	0.60	2.12	50.57	24	4	52.69	NCHSHT
NAA0312_6-50	50	6	12	150855.2	150855.2	0.33%	1.44	0.26	1.71	61.33	30	5	63.04	NCHSHT
NAA0412_6-50	50	6	12	157343.1	157343.1	0.33%	1.37	0.59	1.97	65.30	30	5	67.28	NCHSHT
NAA0512_6-50	50	6	12	153791.2	153791.2	0.45%	1.36	0.41	1.77	116.55	48	8	118.33	NCHSHT
NAA0612_6-50	50	6	12	145999.8	145999.8	0.55%	1.49	0.72	2.22	73.65	30	5	75.88	NCHSHT
NAA0712_6-50	50	6	12	155970.1	155970.1	0.23%	1.18	0.17	1.36	39.67	24	4	41.04	NCHSHT
NAA0812_6-50	50	6	12	142488.2	142488.2	0.24%	1.26	0.48	1.74	46.53	30	5	48.28	NCHSHT
NAA0912_6-50	50	6	12	149502.0	149502.0	0.23%	1.17	0.65	1.83	45.64	24	4	47.47	NCHSHT
NAA0018_6-50	50	6	18	214413.7	214413.7	0.17%	2.18	0.53	2.72	70.04	32	4	72.77	NCHSHT
NAA0118_6-50	50	6	18	216239.6	216239.6	0.14%	2.14	1.12	3.26	56.51	32	4	59.79	NCHSHT
NAA0218_6-50	50	6	18	222002.9	222002.9	0.27%	2.25	2.15	4.41	119.25	48	6	123.68	NCHSHT
NAA0318_6-50	50	6	18	224342.5	224342.5	0.32%	2.74	0.65	3.40	106.90	40	5	110.31	NCHSHT
NAA0418_6-50	50	6	18	234080.8	234080.8	0.26%	2.35	2.05	4.41	129.21	40	5	133.63	NCHSHT
NAA0518_6-50	50	6	18	223547.3	223547.3	0.35%	2.56	1.02	3.58	112.40	40	5	115.99	NCHSHT
NAA0618_6-50	50	6	18	217317.2	217317.2	0.49%	3.00	1.86	4.88	199.00	56	7	203.89	NCHSHT
NAA0718_6-50	50	6	18	229015.2	229015.2	0.23%	2.43	0.62	3.06	126.15	48	6	129.21	NCHSHT
NAA0818_6-50	50	6	18	213092.4	213092.4	0.19%	1.81	0.48	2.31	63.16	32	4	65.47	NCHSHT
NAA0918_6-50	50	6	18	222614.6	222614.6	0.13%	2.03	1.16	3.21	64.71	40	5	67.92	NCHSHT
NAB006_2-6	6	2	6	14649.9	14649.9	4.24%	0.09	0.02	0.11	0.21	10	2	0.32	NCHSLT
NAB016_2-6	6	2	6	11405.1	11405.1	3.81%	0.12	0.02	0.14	0.20	10	2	0.33	NCHSLT
NAB026_2-6	6	2	6	14761.3	14761.3	1.20%	0.08	0.02	0.10	0.50	20	4	0.61	NCHSLT
NAB036_2-6	6	2	6	15128.8	15128.8	1.01%	0.09	0.02	0.12	0.48	30	6	0.60	NCHSLT
NAB046_2-6	6	2	6	16762.9	16762.9	2.10%	0.11	0.02	0.13	0.43	15	3	0.56	NCHSLT
NAB056_2-6	6	2	6	17113.4	17113.4	3.25%	0.10	0.02	0.13	0.27	10	2	0.40	NCHSLT
NAB066_2-6	6	2	6	15888.8	15888.8	0.00%	0.12	0.03	0.15	0.36	15	3	0.51	NCHSLT
NAB076_2-6	6	2	6	16549.2	16549.2	0.52%	0.10	0.02	0.12	0.21	10	2	0.33	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%	0.08	0.02	0.09	0.09	10	2	0.18	NCHSLT
NAB096_2-6	6	2	6	13205.1	13205.1	2.44%	0.09	0.04	0.13	0.12	10	2	0.25	NCHSLT
NAB0012_2-6	6	2	12	24918.8	24918.8	2.55%	0.20	0.03	0.23	0.91	24	4	1.15	NCHSLT
NAB0112_2-6	6	2	12	23814.3	23814.3	2.06%	0.20	0.03	0.23	1.04	24	4	1.27	NCHSLT
NAB0212_2-6	6	2	12	27195.0	27195.0	1.69%	0.17	0.03	0.20	0.65	18	3	0.86	NCHSLT
NAB0312_2-6	6	2	12	27256.2	27256.2	1.55%	0.25	0.04	0.29	1.29	30	5	1.58	NCHSLT
NAB0412_2-6	6	2	12	28094.8	28094.8	4.21%	0.24	0.03	0.27	1.82	18	3	2.09	NCHSLT
NAB0512_2-6	6	2	12	32118.1	32118.1	3.95%	0.19	0.04	0.23	1.04	24	4	1.27	NCHSLT
NAB0612_2-6	6	2	12	28325.7	28325.7	1.10%	0.16	0.04	0.20	1.09	24	4	1.29	NCHSLT
NAB0712_2-6	6	2	12	26981.6	26981.6	0.23%	0.21	0.03	0.24	0.63	18	3	0.87	NCHSLT
NAB0812_2-6	6	2	12	22350.9	22350.9	1.56%	0.14	0.04	0.18	0.58	24	4	0.76	NCHSLT
NAB0912_2-6	6	2	12	27417.7	27417.7	1.56%	0.21	0.04	0.26	1.44	24	4	1.70	NCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0018_2-6	6	2	18	34017.4	34017.4	2.66%	0.41	0.05	0.45	4.16	32	4	4.61	NCHSLT
NAB0118_2-6	6	2	18	33970.1	33970.1	1.36%	0.33	0.05	0.38	3.87	40	5	4.25	NCHSLT
NAB0218_2-6	6	2	18	39510.6	39510.6	0.36%	0.25	0.07	0.32	1.25	24	3	1.57	NCHSLT
NAB0318_2-6	6	2	18	78260585.2	78260585.2	227.78%	0.30	0.05	0.35	1.78	24	3	2.13	NCHSLT
NAB0418_2-6	6	2	18	36909.1	36909.1	0.61%	0.46	0.05	0.51	2.28	32	4	2.79	NCHSLT
NAB0518_2-6	6	2	18	42565.7	42565.7	0.37%	0.27	0.08	0.35	3.32	48	6	3.67	NCHSLT
NAB0618_2-6	6	2	18	39076.4	39076.4	0.80%	0.28	0.05	0.33	2.71	40	5	3.05	NCHSLT
NAB0718_2-6	6	2	18	39186.7	39186.7	0.95%	0.32	0.07	0.39	1.75	24	3	2.15	NCHSLT
NAB0818_2-6	6	2	18	32190.6	32190.6	1.82%	0.22	0.05	0.27	1.19	24	3	1.46	NCHSLT
NAB0918_2-6	6	2	18	36153.9	36153.9	0.32%	0.20	0.07	0.27	2.06	40	5	2.34	NCHSLT
NAB006_2-12	12	2	6	21907.5	21907.5	0.54%	0.15	0.03	0.18	0.39	10	2	0.57	NCHSLT
NAB016_2-12	12	2	6	24372.8	24372.8	0.26%	0.12	0.03	0.15	0.49	15	3	0.64	NCHSLT
NAB026_2-12	12	2	6	25670.0	25670.0	0.66%	0.18	0.03	0.21	0.78	20	4	0.99	NCHSLT
NAB036_2-12	12	2	6	29599.2	29599.2	0.96%	0.11	0.03	0.14	0.65	15	3	0.79	NCHSLT
NAB046_2-12	12	2	6	25374.6	25374.6	0.64%	0.14	0.02	0.16	0.28	10	2	0.44	NCHSLT
NAB056_2-12	12	2	6	29133.3	29133.3	0.29%	0.15	0.02	0.18	0.72	15	3	0.90	NCHSLT
NAB066_2-12	12	2	6	25555.1	25555.1	0.58%	0.14	0.02	0.17	0.34	15	3	0.51	NCHSLT
NAB076_2-12	12	2	6	25737.7	25737.7	1.15%	0.12	0.02	0.15	0.35	10	2	0.50	NCHSLT
NAB086_2-12	12	2	6	23303.5	23303.5	0.00%	0.13	0.02	0.15	0.16	10	2	0.31	NCHSLT
NAB096_2-12	12	2	6	27632.7	27632.7	1.43%	0.16	0.02	0.18	0.49	10	2	0.67	NCHSLT
NAB0012_2-12	12	2	12	41458.4	41458.4	0.79%	0.25	0.04	0.29	3.36	36	6	3.65	NCHSLT
NAB0112_2-12	12	2	12	42106.7	42106.7	1.20%	0.21	0.05	0.26	1.84	18	3	2.10	NCHSLT
NAB0212_2-12	12	2	12	44549.2	44549.2	1.26%	0.25	0.07	0.31	2.40	24	4	2.71	NCHSLT
NAB0312_2-12	12	2	12	53515.9	53515.9	0.96%	0.28	0.04	0.33	2.25	24	4	2.58	NCHSLT
NAB0412_2-12	12	2	12	45511.3	45511.3	0.93%	0.22	0.06	0.28	2.42	30	5	2.70	NCHSLT
NAB0512_2-12	12	2	12	52973.4	52973.4	1.50%	0.29	0.06	0.35	8.41	36	6	8.76	NCHSLT
NAB0612_2-12	12	2	12	46164.2	46164.2	0.95%	0.27	0.07	0.34	2.97	24	4	3.31	NCHSLT
NAB0712_2-12	12	2	12	47665.0	47665.0	0.25%	0.26	0.04	0.30	2.97	30	5	3.28	NCHSLT
NAB0812_2-12	12	2	12	42043.4	42043.4	0.42%	0.23	0.25	0.48	3.66	24	4	4.14	NCHSLT
NAB0912_2-12	12	2	12	51268.2	51268.2	1.45%	0.32	0.05	0.37	5.63	24	4	5.99	NCHSLT
NAB0018_2-12	12	2	18	61019.7	61019.7	0.35%	0.45	0.05	0.50	6.29	40	5	6.80	NCHSLT
NAB0118_2-12	12	2	18	61949.6	61949.6	0.01%	0.39	0.09	0.48	5.53	32	4	6.01	NCHSLT
NAB0218_2-12	12	2	18	65743.0	65743.0	0.82%	0.42	0.07	0.50	15.29	80	10	15.79	NCHSLT
NAB0318_2-12	12	2	18	76212.3	76212.3	1.20%	0.33	0.06	0.40	13.90	40	5	14.30	NCHSLT
NAB0418_2-12	12	2	18	68060.1	68060.1	0.85%	0.35	0.06	0.42	6.83	40	5	7.24	NCHSLT
NAB0518_2-12	12	2	18	75109.5	75109.5	1.64%	0.40	0.09	0.49	28.87	32	4	29.36	NCHSLT
NAB0618_2-12	12	2	18	66624.3	66624.3	1.05%	0.48	0.10	0.58	20.31	32	4	20.89	NCHSLT
NAB0718_2-12	12	2	18	67794.6	67794.6	0.01%	0.29	0.08	0.37	3.75	32	4	4.12	NCHSLT
NAB0818_2-12	12	2	18	64964.8	64964.8	0.20%	0.26	0.07	0.33	19.52	32	4	19.85	NCHSLT
NAB0918_2-12	12	2	18	73341.0	73341.0	0.91%	0.42	0.09	0.51	22.27	32	4	22.78	NCHSLT
NAB006_2-25	25	2	6	48601.6	48601.6	0.47%	0.23	0.03	0.26	1.03	10	2	1.29	NCHSLT
NAB016_2-25	25	2	6	49254.2	49254.2	0.10%	0.20	0.03	0.23	1.36	20	4	1.59	NCHSLT
NAB026_2-25	25	2	6	52117.9	52117.9	0.12%	0.25	0.03	0.28	1.97	25	5	2.26	NCHSLT
NAB036_2-25	25	2	6	54323.7	54323.7	1.17%	0.22	0.05	0.27	1.88	15	3	2.15	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%	0.26	0.02	0.28	1.36	15	3	1.65	NCHSLT
NAB056_2-25	25	2	6	57763.4	57763.4	0.60%	0.26	0.05	0.31	1.51	15	3	1.82	NCHSLT
NAB066_2-25	25	2	6	46949.7	46949.7	0.88%	0.21	0.03	0.25	0.93	15	3	1.18	NCHSLT
NAB076_2-25	25	2	6	52373.6	52373.6	0.31%	0.24	0.05	0.29	1.30	10	2	1.59	NCHSLT
NAB086_2-25	25	2	6	55594.2	55594.2	1.07%	0.29	0.04	0.33	1.82	15	3	2.15	NCHSLT
NAB096_2-25	25	2	6	60508.2	60508.2	0.16%	0.24	0.03	0.27	1.49	15	3	1.76	NCHSLT
NAB0012_2-25	25	2	12	89461.4	89461.4	0.22%	0.42	0.06	0.48	5.92	18	3	6.45	NCHSLT
NAB0112_2-25	25	2	12	95114.1	95114.1	0.39%	0.59	0.08	0.68	7.75	24	4	8.43	NCHSLT
NAB0212_2-25	25	2	12	91974.3	91974.3	0.63%	0.46	0.08	0.54	22.22	36	6	22.76	NCHSLT
NAB0312_2-25	25	2	12	96002.6	96002.6	1.01%	0.44	0.08	0.52	22.70	24	4	23.23	NCHSLT
NAB0412_2-25	25	2	12	94777.7	94777.7	0.60%	0.48	0.08	0.56	13.32	24	4	13.89	NCHSLT
NAB0512_2-25	25	2	12	107733.9	107733.9	0.95%	0.54	0.08	0.62	42.19	36	6	42.81	NCHSLT
NAB0612_2-25	25	2	12	90862.3	90862.3	0.17%	0.41	0.11	0.52	5.70	30	5	6.23	NCHSLT
NAB0712_2-25	25	2	12	96745.0	96745.0	0.37%	0.47	0.06	0.53	12.61	30	5	13.14	NCHSLT
NAB0812_2-25	25	2	12	99381.3	99381.3	0.56%	0.53	0.06	0.59	13.20	24	4	13.79	NCHSLT
NAB0912_2-25	25	2	12	104675.0	104675.0	0.57%	0.49	0.07	0.56	13.42	18	3	13.98	NCHSLT
NAB0018_2-25	25	2	18	129939.3	129939.3	0.38%	0.82	0.16	0.99	41.27	32	4	42.26	NCHSLT
NAB0118_2-25	25	2	18	133710.4	133710.4	0.40%	0.52	0.11	0.64	36.07	40	5	36.71	NCHSLT
NAB0218_2-25	25	2	18	131498.8	131498.8	0.46%	0.79	0.20	0.98	35.14	32	4	36.12	NCHSLT
NAB0318_2-25	25	2	18	143949.3	143949.3	0.66%	0.53	0.10	0.64	21.58	32	4	22.23	NCHSLT
NAB0418_2-25	25	2	18	138312.7	138312.7	0.60%	0.66	0.16	0.83	38.06	40	5	38.88	NCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0518_2-25	25	2	18	150967.9	150967.9	1.03%	0.95	0.21	1.16	89.81	32	4	90.98	NCHSLT
NAB0618_2-25	25	2	18	128239.8	128239.8	0.38%	0.56	0.12	0.68	19.56	32	4	20.24	NCHSLT
NAB0718_2-25	25	2	18	142724.6	142724.6	0.72%	0.78	0.10	0.88	71.16	40	5	72.04	NCHSLT
NAB0818_2-25	25	2	18	140273.7	140273.7	0.31%	0.78	0.08	0.87	56.75	48	6	57.63	NCHSLT
NAB0918_2-25	25	2	18	149812.9	149812.9	0.49%	0.66	0.07	0.74	46.79	56	7	47.53	NCHSLT
NAB006_2-50	50	2	6	95675.3	95675.3	0.45%	0.42	0.06	0.49	2.34	15	3	2.82	NCHSLT
NAB016_2-50	50	2	6	99083.7	99083.7	0.16%	0.39	0.07	0.47	2.01	15	3	2.48	NCHSLT
NAB026_2-50	50	2	6	96167.6	96167.6	0.07%	0.46	0.04	0.50	1.84	15	3	2.34	NCHSLT
NAB036_2-50	50	2	6	104332.7	104332.7	0.29%	0.43	0.06	0.50	3.49	15	3	3.99	NCHSLT
NAB046_2-50	50	2	6	109555.1	109555.1	0.34%	0.46	0.26	0.72	17.29	15	3	18.01	NCHSLT
NAB056_2-50	50	2	6	107872.8	107872.8	0.69%	0.41	0.08	0.49	4.50	10	2	4.99	NCHSLT
NAB066_2-50	50	2	6	96703.8	96703.8	0.32%	0.40	0.04	0.44	3.87	10	2	4.31	NCHSLT
NAB076_2-50	50	2	6	103611.3	103611.3	0.28%	0.44	0.07	0.51	15.26	20	4	15.77	NCHSLT
NAB086_2-50	50	2	6	101275.1	101275.1	0.25%	0.42	0.08	0.50	4.01	15	3	4.51	NCHSLT
NAB096_2-50	50	2	6	105188.9	105188.9	0.23%	0.40	0.06	0.46	1.77	10	2	2.24	NCHSLT
NAB0012_2-50	50	2	12	178239.5	178239.5	0.25%	0.60	0.17	0.78	23.87	18	3	24.66	NCHSLT
NAB0112_2-50	50	2	12	185393.4	185393.4	0.02%	0.57	0.06	0.63	11.73	36	6	12.36	NCHSLT
NAB0212_2-50	50	2	12	178551.5	178551.5	0.21%	0.69	0.14	0.84	21.34	24	4	22.18	NCHSLT
NAB0312_2-50	50	2	12	191319.6	191319.6	0.26%	0.66	0.15	0.81	18.86	18	3	19.67	NCHSLT
NAB0412_2-50	50	2	12	197433.4	197433.4	0.38%	1.27	0.20	1.47	42.63	24	4	44.10	NCHSLT
NAB0512_2-50	50	2	12	195533.2	195533.2	0.49%	0.80	0.10	0.90	41.00	18	3	41.90	NCHSLT
NAB0612_2-50	50	2	12	175855.1	175855.1	0.18%	0.69	0.11	0.80	22.20	24	4	23.01	NCHSLT
NAB0712_2-50	50	2	12	187135.3	187135.3	0.36%	0.94	0.12	1.07	32.67	18	3	33.74	NCHSLT
NAB0812_2-50	50	2	12	181050.7	181050.7	0.12%	0.76	0.17	0.93	28.19	24	4	29.13	NCHSLT
NAB0912_2-50	50	2	12	192354.8	192354.8	0.28%	1.06	0.12	1.18	41.79	30	5	42.98	NCHSLT
NAB0018_2-50	50	2	18	260342.4	260342.4	0.03%	0.78	0.15	0.93	28.36	32	4	29.29	NCHSLT
NAB0118_2-50	50	2	18	269376.1	269376.1	0.24%	0.99	0.25	1.25	64.94	32	4	66.20	NCHSLT
NAB0218_2-50	50	2	18	258226.0	258226.0	0.15%	1.21	0.21	1.42	50.19	32	4	51.61	NCHSLT
NAB0318_2-50	50	2	18	280603.6	280603.6	0.13%	1.02	0.20	1.23	69.79	32	4	71.03	NCHSLT
NAB0418_2-50	50	2	18	287498.4	287498.4	0.33%	1.43	0.32	1.75	175.88	40	5	177.63	NCHSLT
NAB0518_2-50	50	2	18	284895.2	284895.2	0.15%	1.23	0.15	1.38	72.51	32	4	73.90	NCHSLT
NAB0618_2-50	50	2	18	257602.6	257602.6	0.13%	1.06	0.18	1.25	58.43	32	4	59.69	NCHSLT
NAB0718_2-50	50	2	18	271294.9	271294.9	0.18%	1.08	0.23	1.31	98.82	32	4	100.13	NCHSLT
NAB0818_2-50	50	2	18	264173.1	264173.1	0.12%	1.22	0.17	1.39	60.86	32	4	62.26	NCHSLT
NAB0918_2-50	50	2	18	280218.7	280218.7	0.21%	1.37	0.25	1.62	103.82	48	6	105.45	NCHSLT
NAB006_4-6	6	4	6	9771.5	9771.5	1.14%	0.11	0.03	0.15	0.31	10	2	0.46	NCHSLT
NAB016_4-6	6	4	6	12101.8	12101.8	0.51%	0.17	0.05	0.22	0.38	10	2	0.60	NCHSLT
NAB026_4-6	6	4	6	12071.6	12071.6	0.33%	0.17	0.04	0.21	0.20	10	2	0.42	NCHSLT
NAB036_4-6	6	4	6	12763.3	12763.3	1.17%	0.14	0.03	0.17	0.40	20	4	0.57	NCHSLT
NAB046_4-6	6	4	6	10860.1	10860.1	0.69%	0.16	0.04	0.20	0.41	10	2	0.62	NCHSLT
NAB056_4-6	6	4	6	15924.0	15924.0	3.41%	0.13	0.03	0.16	0.54	20	4	0.71	NCHSLT
NAB066_4-6	6	4	6	12811.3	12811.3	3.37%	0.15	0.05	0.20	0.33	10	2	0.53	NCHSLT
NAB076_4-6	6	4	6	13950.3	13950.3	0.06%	0.11	0.05	0.16	0.15	10	2	0.31	NCHSLT
NAB086_4-6	6	4	6	9947.1	9947.1	0.00%	0.12	0.04	0.16	0.30	20	4	0.46	NCHSLT
NAB096_4-6	6	4	6	14732.9	14732.9	0.14%	0.14	0.04	0.18	0.25	15	3	0.43	NCHSLT
NAB0012_4-6	6	4	12	17927.7	17927.7	0.27%	0.26	0.09	0.36	0.91	18	3	1.27	NCHSLT
NAB0112_4-6	6	4	12	25098.2	25098.2	0.00%	0.36	0.12	0.48	2.02	18	3	2.50	NCHSLT
NAB0212_4-6	6	4	12	23401.6	23401.6	0.98%	0.32	0.08	0.40	2.61	24	4	3.01	NCHSLT
NAB0312_4-6	6	4	12	25763.0	25763.0	0.61%	0.24	0.07	0.32	0.72	18	3	1.05	NCHSLT
NAB0412_4-6	6	4	12	24197.2	24197.2	2.76%	0.28	0.07	0.35	3.44	30	5	3.79	NCHSLT
NAB0512_4-6	6	4	12	31057.3	31057.3	2.55%	0.31	0.07	0.38	1.11	18	3	1.49	NCHSLT
NAB0612_4-6	6	4	12	22224.2	22224.2	1.35%	0.30	0.09	0.39	1.39	30	5	1.78	NCHSLT
NAB0712_4-6	6	4	12	24999.9	24999.9	1.72%	0.21	0.08	0.29	1.01	24	4	1.30	NCHSLT
NAB0812_4-6	6	4	12	21081.1	21081.1	0.14%	0.25	0.07	0.33	1.48	18	3	1.81	NCHSLT
NAB0912_4-6	6	4	12	26023.8	26023.8	0.44%	0.31	0.07	0.38	1.07	30	5	1.45	NCHSLT
NAB0018_4-6	6	4	18	27645.0	27645.0	0.54%	0.72	0.10	0.83	3.56	32	4	4.39	NCHSLT
NAB0118_4-6	6	4	18	33535.8	33535.8	0.78%	0.85	0.19	1.04	6.27	32	4	7.31	NCHSLT
NAB0218_4-6	6	4	18	33421.9	33421.9	0.32%	0.72	0.12	0.84	4.65	32	4	5.49	NCHSLT
NAB0318_4-6	6	4	18	39032.3	39032.3	0.23%	0.57	0.11	0.68	5.95	40	5	6.63	NCHSLT
NAB0418_4-6	6	4	18	35439.2	35439.2	1.22%	0.67	0.12	0.79	7.82	40	5	8.61	NCHSLT
NAB0518_4-6	6	4	18	43224.7	43224.7	0.44%	0.50	0.15	0.66	3.90	32	4	4.56	NCHSLT
NAB0618_4-6	6	4	18	34408.4	34408.4	0.79%	0.55	0.17	0.73	4.53	32	4	5.26	NCHSLT
NAB0718_4-6	6	4	18	37355.7	37355.7	0.25%	0.42	0.18	0.60	4.91	40	5	5.52	NCHSLT
NAB0818_4-6	6	4	18	28344.1	28344.1	1.05%	0.44	0.18	0.62	2.34	32	4	2.96	NCHSLT
NAB0918_4-6	6	4	18	38426.2	38426.2	0.72%	0.59	0.10	0.69	2.23	24	3	2.93	NCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB006_4-12	12	4	6	20484.1	20484.1	0.21%	0.19	0.04	0.23	0.96	15	3	1.19	NCHSLT
NAB016_4-12	12	4	6	23869.3	23869.3	0.78%	0.24	0.06	0.31	9.75	20	4	10.06	NCHSLT
NAB026_4-12	12	4	6	18953.3	18953.3	0.85%	0.17	0.05	0.22	0.78	15	3	1.00	NCHSLT
NAB036_4-12	12	4	6	21105.6	21105.6	1.77%	0.20	0.04	0.25	1.41	20	4	1.66	NCHSLT
NAB046_4-12	12	4	6	23013.4	23013.4	0.00%	0.24	0.05	0.29	0.98	20	4	1.27	NCHSLT
NAB056_4-12	12	4	6	24621.7	24621.7	1.76%	0.25	0.05	0.29	1.86	20	4	2.16	NCHSLT
NAB066_4-12	12	4	6	21581.4	21581.4	1.30%	0.19	0.05	0.25	0.79	15	3	1.04	NCHSLT
NAB076_4-12	12	4	6	21636.0	21636.0	0.15%	0.22	0.06	0.28	2.30	15	3	2.58	NCHSLT
NAB086_4-12	12	4	6	22811.2	22811.2	0.63%	0.16	0.06	0.22	0.81	15	3	1.04	NCHSLT
NAB096_4-12	12	4	6	22807.3	22807.3	1.66%	0.20	0.06	0.26	1.99	15	3	2.24	NCHSLT
NAB0012_4-12	12	4	12	36753.6	36753.6	0.44%	0.45	0.07	0.52	16.54	24	4	17.06	NCHSLT
NAB0112_4-12	12	4	12	42114.7	42114.7	1.86%	0.79	0.16	0.95	26.29	24	4	27.23	NCHSLT
NAB0212_4-12	12	4	12	37633.6	37633.6	0.55%	0.37	0.12	0.49	3.86	24	4	4.34	NCHSLT
NAB0312_4-12	12	4	12	41460.5	41460.5	1.19%	0.41	0.18	0.59	5.68	18	3	6.27	NCHSLT
NAB0412_4-12	12	4	12	42544.5	42544.5	0.10%	0.41	0.14	0.55	8.79	24	4	9.34	NCHSLT
NAB0512_4-12	12	4	12	46978.9	46978.9	2.19%	0.42	0.10	0.52	16.05	30	5	16.58	NCHSLT
NAB0612_4-12	12	4	12	40615.3	40615.3	1.24%	0.35	0.14	0.49	5.87	24	4	6.36	NCHSLT
NAB0712_4-12	12	4	12	43279.0	43279.0	1.45%	0.42	0.14	0.57	22.77	30	5	23.34	NCHSLT
NAB0812_4-12	12	4	12	41951.2	41951.2	0.23%	0.32	0.07	0.39	2.43	18	3	2.82	NCHSLT
NAB0912_4-12	12	4	12	45447.2	45447.2	1.46%	0.42	0.11	0.54	21.02	24	4	21.56	NCHSLT
NAB0018_4-12	12	4	18	54897.4	54897.4	0.77%	0.62	0.19	0.81	20.93	40	5	21.74	NCHSLT
NAB0118_4-12	12	4	18	61540.4	61540.4	1.78%	1.23	0.29	1.52	64.59	40	5	66.12	NCHSLT
NAB0218_4-12	12	4	18	54038.1	54038.1	0.30%	0.47	0.13	0.60	7.71	40	5	8.31	NCHSLT
NAB0318_4-12	12	4	18	62765.4	62765.4	1.09%	0.93	0.22	1.16	31.24	40	5	32.40	NCHSLT
NAB0418_4-12	12	4	18	63552.7	63552.7	1.42%	0.79	0.16	0.95	74.39	48	6	75.34	NCHSLT
NAB0518_4-12	12	4	18	67797.4	67797.4	1.70%	0.66	0.24	0.91	32.06	40	5	32.97	NCHSLT
NAB0618_4-12	12	4	18	60226.9	60226.9	1.09%	0.76	0.17	0.93	10.80	40	5	11.73	NCHSLT
NAB0718_4-12	12	4	18	66641.9	66641.9	1.82%	0.95	0.25	1.21	51.92	32	4	53.13	NCHSLT
NAB0818_4-12	12	4	18	63624.9	63624.9	0.22%	0.76	0.17	0.93	19.60	32	4	20.54	NCHSLT
NAB0918_4-12	12	4	18	64343.2	64343.2	1.14%	0.71	0.23	0.94	24.37	48	6	25.31	NCHSLT
NAB006_4-25	25	4	6	37946.8	37946.8	0.47%	0.42	0.12	0.53	4.41	15	3	4.94	NCHSLT
NAB016_4-25	25	4	6	46283.2	46283.2	0.45%	0.47	0.08	0.55	8.86	20	4	9.41	NCHSLT
NAB026_4-25	25	4	6	43933.3	43933.3	0.97%	0.43	0.10	0.53	15.16	25	5	15.69	NCHSLT
NAB036_4-25	25	4	6	43648.6	43648.6	0.83%	0.38	0.09	0.47	6.94	20	4	7.41	NCHSLT
NAB046_4-25	25	4	6	44560.7	44560.7	0.68%	0.35	0.17	0.52	24.05	20	4	24.57	NCHSLT
NAB056_4-25	25	4	6	48697.1	48697.1	1.29%	0.38	0.05	0.44	10.04	20	4	10.48	NCHSLT
NAB066_4-25	25	4	6	38791.6	38791.6	0.90%	0.33	0.07	0.40	2.32	25	5	2.72	NCHSLT
NAB076_4-25	25	4	6	44050.1	44050.1	0.63%	0.36	0.13	0.49	12.15	10	2	12.64	NCHSLT
NAB086_4-25	25	4	6	40539.4	40539.4	0.27%	0.41	0.08	0.49	10.89	30	6	11.38	NCHSLT
NAB096_4-25	25	4	6	46741.6	46741.6	0.90%	0.36	0.10	0.46	22.73	20	4	23.20	NCHSLT
NAB0012_4-25	25	4	12	75680.8	75680.8	0.61%	0.72	0.19	0.91	32.43	30	5	33.34	NCHSLT
NAB0112_4-25	25	4	12	84262.0	84262.0	1.07%	0.75	0.22	0.97	74.84	30	5	75.81	NCHSLT
NAB0212_4-25	25	4	12	80623.7	80623.7	1.79%	1.18	0.23	1.42	75.35	30	5	76.76	NCHSLT
NAB0312_4-25	25	4	12	84461.2	84461.2	1.02%	0.62	0.24	0.87	67.68	36	6	68.55	NCHSLT
NAB0412_4-25	25	4	12	84860.3	84860.3	0.81%	0.65	0.22	0.87	54.72	36	6	55.60	NCHSLT
NAB0512_4-25	25	4	12	88081.8	88081.8	0.92%	0.53	0.19	0.72	47.84	24	4	48.56	NCHSLT
NAB0612_4-25	25	4	12	74517.5	74517.5	0.35%	0.57	0.23	0.80	25.65	36	6	26.46	NCHSLT
NAB0712_4-25	25	4	12	84823.6	84823.6	0.98%	0.75	0.27	1.01	35.46	24	4	36.48	NCHSLT
NAB0812_4-25	25	4	12	79111.4	79111.4	0.45%	0.88	0.15	1.03	24.75	24	4	25.78	NCHSLT
NAB0912_4-25	25	4	12	85132.7	85132.7	0.22%	0.49	0.14	0.63	13.26	24	4	13.90	NCHSLT
NAB0018_4-25	25	4	18	109871.5	109871.5	0.58%	1.48	0.20	1.68	83.41	40	5	85.09	NCHSLT
NAB0118_4-25	25	4	18	122487.7	122487.7	1.07%	1.43	0.38	1.81	110.83	40	5	112.64	NCHSLT
NAB0218_4-25	25	4	18	118734.2	118734.2	1.17%	1.72	0.41	2.14	154.74	40	5	156.88	NCHSLT
NAB0318_4-25	25	4	18	122853.3	122853.3	0.86%	1.29	0.44	1.73	95.44	40	5	97.18	NCHSLT
NAB0418_4-25	25	4	18	125304.3	125304.3	0.84%	1.22	0.31	1.53	75.02	40	5	76.56	NCHSLT
NAB0518_4-25	25	4	18	127314.2	127314.2	0.83%	1.31	0.44	1.75	86.89	48	6	88.64	NCHSLT
NAB0618_4-25	25	4	18	111642.2	111642.2	0.70%	0.87	0.32	1.20	41.74	48	6	42.94	NCHSLT
NAB0718_4-25	25	4	18	123315.0	123315.0	0.58%	1.49	0.44	1.94	87.96	40	5	89.90	NCHSLT
NAB0818_4-25	25	4	18	113627.6	113627.6	0.78%	1.21	0.21	1.43	87.86	32	4	89.29	NCHSLT
NAB0918_4-25	25	4	18	125202.5	125202.5	0.41%	1.05	0.37	1.42	43.35	48	6	44.78	NCHSLT
NAB006_4-50	50	4	6	81913.5	81913.5	0.29%	0.64	0.23	0.87	24.32	20	4	25.19	NCHSLT
NAB016_4-50	50	4	6	85191.0	85191.0	0.28%	0.68	0.26	0.94	11.28	15	3	12.22	NCHSLT
NAB026_4-50	50	4	6	87217.3	87217.3	0.26%	0.62	0.17	0.80	21.21	15	3	22.01	NCHSLT
NAB036_4-50	50	4	6	88141.5	88141.5	0.21%	0.55	0.08	0.63	7.69	15	3	8.32	NCHSLT
NAB046_4-50	50	4	6	94911.9	94911.9	0.59%	0.67	0.13	0.80	46.13	25	5	46.94	NCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB056_4-50	50	4	6	89651.2	89651.2	0.40%	0.67	0.18	0.85	19.10	20	4	19.96	NCHSLT
NAB066_4-50	50	4	6	80094.9	80094.9	0.23%	0.49	0.24	0.74	12.82	15	3	13.55	NCHSLT
NAB076_4-50	50	4	6	83920.7	83920.7	0.17%	0.84	0.20	1.04	27.56	20	4	28.60	NCHSLT
NAB086_4-50	50	4	6	84363.5	84363.5	0.58%	0.63	0.21	0.85	34.02	20	4	34.88	NCHSLT
NAB096_4-50	50	4	6	94830.4	94830.4	0.26%	0.62	0.09	0.72	8.94	20	4	9.66	NCHSLT
NAB0012_4-50	50	4	12	160329.5	160329.5	0.37%	1.13	0.23	1.37	83.95	30	5	85.32	NCHSLT
NAB0112_4-50	50	4	12	158057.2	158057.2	0.33%	1.11	0.24	1.35	38.57	30	5	39.92	NCHSLT
NAB0212_4-50	50	4	12	159746.8	159746.8	0.58%	1.66	0.44	2.10	99.28	30	5	101.39	NCHSLT
NAB0312_4-50	50	4	12	166878.4	166878.4	0.35%	1.25	0.34	1.59	92.82	36	6	94.42	NCHSLT
NAB0412_4-50	50	4	12	172168.6	172168.6	0.60%	1.25	0.59	1.85	75.90	24	4	77.76	NCHSLT
NAB0512_4-50	50	4	12	166123.5	166123.5	0.70%	1.77	0.36	2.14	64.25	24	4	66.39	NCHSLT
NAB0612_4-50	50	4	12	150758.4	150758.4	0.21%	0.96	0.26	1.23	37.22	24	4	38.45	NCHSLT
NAB0712_4-50	50	4	12	163322.2	163322.2	0.72%	1.39	0.28	1.68	79.16	30	5	80.84	NCHSLT
NAB0812_4-50	50	4	12	157821.5	157821.5	0.34%	1.28	0.43	1.72	71.65	36	6	73.37	NCHSLT
NAB0912_4-50	50	4	12	173029.4	173029.4	0.29%	1.27	0.38	1.66	47.46	24	4	49.12	NCHSLT
NAB0018_4-50	50	4	18	228899.7	228899.7	0.28%	1.90	0.40	2.30	107.24	40	5	109.55	NCHSLT
NAB0118_4-50	50	4	18	233245.6	233245.6	0.32%	2.46	0.37	2.84	136.38	40	5	139.22	NCHSLT
NAB0218_4-50	50	4	18	239173.6	239173.6	0.51%	2.19	0.44	2.63	230.67	56	7	233.31	NCHSLT
NAB0318_4-50	50	4	18	244034.8	244034.8	0.35%	2.03	0.44	2.48	103.78	32	4	106.27	NCHSLT
NAB0418_4-50	50	4	18	254367.6	254367.6	0.44%	2.06	0.66	2.73	120.84	32	4	123.58	NCHSLT
NAB0518_4-50	50	4	18	244963.0	244963.0	0.40%	1.99	0.80	2.79	136.15	40	5	138.95	NCHSLT
NAB0618_4-50	50	4	18	224472.9	224472.9	0.16%	1.88	0.16	2.04	69.29	40	5	71.34	NCHSLT
NAB0718_4-50	50	4	18	242497.9	242497.9	0.67%	2.17	0.56	2.74	133.79	32	4	136.54	NCHSLT
NAB0818_4-50	50	4	18	228638.8	228638.8	0.31%	1.90	0.44	2.34	88.90	32	4	91.25	NCHSLT
NAB0918_4-50	50	4	18	252155.6	252155.6	0.22%	1.82	0.37	2.20	83.92	40	5	86.12	NCHSLT
NAB006_6-6	6	6	6	9877.5	9877.5	1.18%	0.16	0.06	0.23	0.48	15	3	0.70	NCHSLT
NAB016_6-6	6	6	6	13677.7	13677.7	1.60%	0.22	0.12	0.34	1.35	15	3	1.70	NCHSLT
NAB026_6-6	6	6	6	12469.3	12469.3	1.25%	0.19	0.06	0.25	0.32	10	2	0.57	NCHSLT
NAB036_6-6	6	6	6	14093.7	14093.7	0.57%	0.16	0.07	0.23	0.57	20	4	0.80	NCHSLT
NAB046_6-6	6	6	6	14278.7	14278.7	1.23%	0.20	0.05	0.25	0.33	10	2	0.58	NCHSLT
NAB056_6-6	6	6	6	17280.4	17280.4	1.49%	0.19	0.06	0.25	0.86	25	5	1.11	NCHSLT
NAB066_6-6	6	6	6	11865.4	11865.4	0.77%	0.13	0.05	0.17	0.54	15	3	0.72	NCHSLT
NAB076_6-6	6	6	6	15746.2	15746.2	1.14%	0.17	0.08	0.25	0.55	15	3	0.81	NCHSLT
NAB086_6-6	6	6	6	15525.1	15525.1	3.34%	0.20	0.07	0.27	0.40	10	2	0.67	NCHSLT
NAB096_6-6	6	6	6	16630.2	16630.2	0.87%	0.19	0.06	0.25	0.65	15	3	0.90	NCHSLT
NAB0012_6-6	6	6	12	20295.0	20295.0	0.57%	0.43	0.17	0.60	1.47	18	3	2.08	NCHSLT
NAB0112_6-6	6	6	12	25331.3	25331.3	0.23%	0.50	0.25	0.75	3.28	18	3	4.03	NCHSLT
NAB0212_6-6	6	6	12	24395.7	24395.7	0.16%	0.44	0.22	0.66	1.31	18	3	1.97	NCHSLT
NAB0312_6-6	6	6	12	27602.7	27602.7	0.41%	0.48	0.17	0.65	1.39	24	4	2.04	NCHSLT
NAB0412_6-6	6	6	12	27439.9	27439.9	0.48%	0.52	0.23	0.76	1.68	18	3	2.43	NCHSLT
NAB0512_6-6	6	6	12	30201.5	30201.5	2.12%	0.37	0.10	0.47	1.87	18	3	2.34	NCHSLT
NAB0612_6-6	6	6	12	24136.4	24136.4	1.41%	0.42	0.10	0.53	2.83	24	4	3.35	NCHSLT
NAB0712_6-6	6	6	12	29240.3	29240.3	0.53%	0.40	0.16	0.56	2.82	24	4	3.38	NCHSLT
NAB0812_6-6	6	6	12	27723.9	27723.9	2.04%	0.47	0.22	0.69	1.85	18	3	2.55	NCHSLT
NAB0912_6-6	6	6	12	30673.6	30673.6	0.64%	0.53	0.15	0.68	2.67	30	5	3.35	NCHSLT
NAB0018_6-6	6	6	18	29849.8	29849.8	0.91%	1.21	0.21	1.43	6.00	32	4	7.43	NCHSLT
NAB0118_6-6	6	6	18	570537841.2	570537841.3	117.53%	1.19	0.40	1.60	14.68	24	3	16.27	NCHSLT
NAB0218_6-6	6	6	18	33277.8	33277.8	0.72%	0.94	0.35	1.29	2.33	24	3	3.62	NCHSLT
NAB0318_6-6	6	6	18	38911.1	38911.1	0.02%	1.00	0.31	1.31	4.59	32	4	5.90	NCHSLT
NAB0418_6-6	6	6	18	39860.3	39860.3	0.36%	1.46	0.37	1.83	19.07	56	7	20.90	NCHSLT
NAB0518_6-6	6	6	18	45130.3	45130.3	0.87%	0.84	0.23	1.08	10.39	32	4	11.47	NCHSLT
NAB0618_6-6	6	6	18	34404.3	34404.3	0.55%	0.67	0.21	0.88	3.78	32	4	4.66	NCHSLT
NAB0718_6-6	6	6	18	43031.7	43031.7	0.79%	0.99	0.28	1.27	7.02	40	5	8.30	NCHSLT
NAB0818_6-6	6	6	18	43958.0	43958.0	1.57%	1.07	0.30	1.37	8.58	40	5	9.96	NCHSLT
NAB0918_6-6	6	6	18	47244.1	47244.1	0.52%	1.00	0.38	1.38	17.58	32	4	18.97	NCHSLT
NAB006_6-12	12	6	6	21043.7	21043.7	1.83%	0.28	0.07	0.36	1.87	20	4	2.23	NCHSLT
NAB016_6-12	12	6	6	21372.3	21372.3	0.91%	0.26	0.12	0.39	0.95	10	2	1.34	NCHSLT
NAB026_6-12	12	6	6	20167.0	20167.0	1.04%	0.34	0.09	0.44	1.80	15	3	2.24	NCHSLT
NAB036_6-12	12	6	6	21040.1	21040.1	0.97%	0.24	0.14	0.38	0.75	10	2	1.14	NCHSLT
NAB046_6-12	12	6	6	19241.7	19241.7	0.96%	0.28	0.08	0.36	0.77	15	3	1.13	NCHSLT
NAB056_6-12	12	6	6	20631.8	20631.8	0.52%	0.23	0.05	0.29	1.45	20	4	1.74	NCHSLT
NAB066_6-12	12	6	6	18878.7	18878.7	1.88%	0.25	0.14	0.39	1.18	15	3	1.57	NCHSLT
NAB076_6-12	12	6	6	24509.4	24509.4	0.81%	0.30	0.08	0.37	3.79	20	4	4.17	NCHSLT
NAB086_6-12	12	6	6	21642.6	21642.6	2.58%	0.34	0.12	0.45	8.49	25	5	8.95	NCHSLT
NAB096_6-12	12	6	6	24513.7	24513.7	0.41%	0.31	0.13	0.44	4.31	15	3	4.74	NCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0012_6-12	12	6	12	38661.0	38661.0	1.25%	0.67	0.25	0.93	11.58	30	5	12.50	NCHSLT
NAB0112_6-12	12	6	12	40974.6	40974.6	0.68%	0.61	0.24	0.85	6.45	24	4	7.31	NCHSLT
NAB0212_6-12	12	6	12	39285.2	39285.2	2.06%	0.60	0.33	0.93	26.13	24	4	27.06	NCHSLT
NAB0312_6-12	12	6	12	41454.1	41454.1	1.33%	0.55	0.35	0.89	6.74	30	5	7.64	NCHSLT
NAB0412_6-12	12	6	12	36947.7	36947.7	0.91%	0.76	0.37	1.13	25.62	30	5	26.75	NCHSLT
NAB0512_6-12	12	6	12	43371.4	43371.4	1.83%	0.76	0.21	0.97	22.50	36	6	23.48	NCHSLT
NAB0612_6-12	12	6	12	35598.1	35598.1	1.40%	0.54	0.18	0.72	4.57	24	4	5.29	NCHSLT
NAB0712_6-12	12	6	12	48824.7	48824.7	2.16%	0.75	0.20	0.95	55.26	30	5	56.22	NCHSLT
NAB0812_6-12	12	6	12	40453.7	40453.7	1.80%	0.68	0.28	0.96	22.80	36	6	23.77	NCHSLT
NAB0912_6-12	12	6	12	45199.1	45199.1	1.40%	0.60	0.41	1.01	15.82	42	7	16.83	NCHSLT
NAB0018_6-12	12	6	18	57734.0	57734.0	1.08%	1.23	0.48	1.71	30.13	56	7	31.84	NCHSLT
NAB0118_6-12	12	6	18	63202.9	63202.9	1.18%	1.62	0.60	2.23	25.68	32	4	27.90	NCHSLT
NAB0218_6-12	12	6	18	56855.8	56855.8	1.08%	1.31	0.48	1.79	18.75	40	5	20.54	NCHSLT
NAB0318_6-12	12	6	18	58760.3	58760.3	0.79%	1.35	0.56	1.91	23.57	32	4	25.48	NCHSLT
NAB0418_6-12	12	6	18	53566.8	53566.8	0.79%	1.13	0.62	1.75	17.75	32	4	19.50	NCHSLT
NAB0518_6-12	12	6	18	64131.7	64131.7	1.27%	1.12	0.36	1.48	22.28	32	4	23.76	NCHSLT
NAB0618_6-12	12	6	18	55427.7	55427.7	1.11%	1.30	0.24	1.55	20.28	40	5	21.83	NCHSLT
NAB0718_6-12	12	6	18	70503.6	70503.6	1.78%	1.46	0.60	2.06	75.27	40	5	77.34	NCHSLT
NAB0818_6-12	12	6	18	59726.5	59726.5	2.05%	1.66	0.71	2.38	48.98	32	4	51.36	NCHSLT
NAB0918_6-12	12	6	18	66605.6	66605.6	0.76%	1.34	0.73	2.07	38.06	56	7	40.13	NCHSLT
NAB006_6-25	25	6	6	40374.8	40374.8	0.67%	0.53	0.26	0.80	17.44	25	5	18.24	NCHSLT
NAB016_6-25	25	6	6	40654.3	40654.3	1.02%	0.55	0.50	1.04	40.85	20	4	41.89	NCHSLT
NAB026_6-25	25	6	6	42687.7	42687.7	1.25%	0.56	0.24	0.80	20.38	20	4	21.19	NCHSLT
NAB036_6-25	25	6	6	41686.6	41686.6	1.06%	0.66	0.21	0.87	39.31	20	4	40.18	NCHSLT
NAB046_6-25	25	6	6	44028.5	44028.5	1.20%	0.64	0.13	0.77	53.20	30	6	53.97	NCHSLT
NAB056_6-25	25	6	6	41423.5	41423.5	1.34%	0.48	0.10	0.58	40.79	25	5	41.36	NCHSLT
NAB066_6-25	25	6	6	39884.4	39884.4	0.80%	0.54	0.32	0.86	43.10	25	5	43.96	NCHSLT
NAB076_6-25	25	6	6	43543.0	43543.0	0.61%	0.56	0.09	0.65	12.13	25	5	12.79	NCHSLT
NAB086_6-25	25	6	6	41797.5	41797.5	0.99%	0.57	0.15	0.72	12.85	20	4	13.58	NCHSLT
NAB096_6-25	25	6	6	43336.4	43336.4	1.07%	0.51	0.18	0.69	10.35	20	4	11.04	NCHSLT
NAB0012_6-25	25	6	12	78247.0	78247.0	1.36%	1.35	0.61	1.96	36.88	24	4	38.84	NCHSLT
NAB0112_6-25	25	6	12	81013.2	81013.2	1.54%	1.10	0.51	1.62	83.14	30	5	84.76	NCHSLT
NAB0212_6-25	25	6	12	81464.8	81464.8	1.36%	1.19	0.43	1.62	60.45	24	4	62.07	NCHSLT
NAB0312_6-25	25	6	12	79058.5	79058.5	1.37%	1.12	0.48	1.61	55.37	24	4	56.98	NCHSLT
NAB0412_6-25	25	6	12	82209.5	82209.5	1.12%	1.23	1.10	2.34	120.04	42	7	122.39	NCHSLT
NAB0512_6-25	25	6	12	78182.4	78182.4	1.36%	0.82	0.44	1.27	62.09	30	5	63.36	NCHSLT
NAB0612_6-25	25	6	12	75451.6	75451.6	0.91%	1.18	0.52	1.71	70.39	36	6	72.10	NCHSLT
NAB0712_6-25	25	6	12	78904.0	78904.0	0.71%	1.15	0.40	1.54	22.74	24	4	24.28	NCHSLT
NAB0812_6-25	25	6	12	76937.7	76937.7	1.16%	1.03	0.39	1.42	69.80	36	6	71.22	NCHSLT
NAB0912_6-25	25	6	12	84641.8	84641.8	2.07%	1.28	0.38	1.66	68.36	30	5	70.02	NCHSLT
NAB0018_6-25	25	6	18	113538.6	113538.6	1.25%	1.82	1.76	3.58	140.70	40	5	144.28	NCHSLT
NAB0118_6-25	25	6	18	119460.2	119460.2	1.38%	2.26	1.84	4.10	119.28	40	5	123.39	NCHSLT
NAB0218_6-25	25	6	18	122089.4	122089.4	1.18%	2.21	0.73	2.95	124.97	40	5	127.92	NCHSLT
NAB0318_6-25	25	6	18	118549.2	118549.2	1.35%	2.17	0.76	2.94	127.28	32	4	130.23	NCHSLT
NAB0418_6-25	25	6	18	122129.9	122129.9	1.00%	1.98	0.63	2.62	240.02	64	8	242.65	NCHSLT
NAB0518_6-25	25	6	18	119416.2	119416.2	1.21%	1.66	0.90	2.56	105.03	48	6	107.59	NCHSLT
NAB0618_6-25	25	6	18	110465.7	110465.7	0.90%	1.95	0.72	2.68	116.42	48	6	119.10	NCHSLT
NAB0718_6-25	25	6	18	116564.4	116564.4	1.03%	1.57	0.61	2.19	56.86	32	4	59.05	NCHSLT
NAB0818_6-25	25	6	18	110766.1	110766.1	1.21%	1.77	0.78	2.55	100.68	32	4	103.25	NCHSLT
NAB0918_6-25	25	6	18	124498.9	124498.9	1.35%	2.30	0.59	2.90	140.03	48	6	142.93	NCHSLT
NAB006_6-50	50	6	6	75526.6	75526.6	0.47%	0.75	0.19	0.94	27.25	20	4	28.20	NCHSLT
NAB016_6-50	50	6	6	78533.4	78533.4	0.82%	0.84	0.41	1.25	125.29	30	6	126.55	NCHSLT
NAB026_6-50	50	6	6	81154.5	81154.5	0.82%	0.91	0.64	1.56	65.26	25	5	66.83	NCHSLT
NAB036_6-50	50	6	6	79050.8	79050.8	0.37%	1.02	0.38	1.40	42.90	25	5	44.30	NCHSLT
NAB046_6-50	50	6	6	81912.9	81912.9	0.84%	0.90	0.42	1.32	106.06	25	5	107.38	NCHSLT
NAB056_6-50	50	6	6	82462.8	82462.8	0.59%	0.82	0.20	1.03	83.63	25	5	84.67	NCHSLT
NAB066_6-50	50	6	6	79072.8	79072.8	0.69%	1.02	0.38	1.40	72.37	20	4	73.78	NCHSLT
NAB076_6-50	50	6	6	82550.0	82550.0	0.62%	0.97	0.36	1.33	40.39	20	4	41.73	NCHSLT
NAB086_6-50	50	6	6	77599.3	77599.3	0.34%	1.09	0.29	1.38	39.65	20	4	41.04	NCHSLT
NAB096_6-50	50	6	6	78831.7	78831.7	0.68%	0.79	0.32	1.11	70.04	20	4	71.15	NCHSLT
NAB0012_6-50	50	6	12	146686.8	146686.8	0.51%	1.77	0.85	2.62	100.80	36	6	103.42	NCHSLT
NAB0112_6-50	50	6	12	150032.9	150032.9	0.80%	1.65	0.73	2.39	78.21	30	5	80.60	NCHSLT
NAB0212_6-50	50	6	12	154381.2	154381.2	0.75%	1.82	0.94	2.77	132.72	30	5	135.50	NCHSLT
NAB0312_6-50	50	6	12	152645.2	152645.2	0.52%	1.57	0.61	2.19	92.57	36	6	94.77	NCHSLT
NAB0412_6-50	50	6	12	159896.7	159896.7	0.73%	1.88	1.28	3.17	147.63	42	7	150.81	NCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0512_6-50	50	6	12	158147.8	158147.8	1.18%	1.78	1.07	2.86	114.11	30	5	116.97	NCHSLT
NAB0612_6-50	50	6	12	148502.3	148502.3	0.70%	2.00	1.79	3.80	226.69	48	8	230.50	NCHSLT
NAB0712_6-50	50	6	12	157370.9	157370.9	0.37%	1.65	0.32	1.99	67.16	30	5	69.15	NCHSLT
NAB0812_6-50	50	6	12	144211.2	144211.2	0.44%	1.40	1.17	2.58	90.62	30	5	93.20	NCHSLT
NAB0912_6-50	50	6	12	151868.1	151868.1	0.52%	1.72	0.69	2.42	93.81	30	5	96.24	NCHSLT
NAB0018_6-50	50	6	18	216937.5	216937.5	0.54%	3.35	1.87	5.23	148.18	40	5	153.42	NCHSLT
NAB0118_6-50	50	6	18	219289.7	219289.7	0.46%	2.97	2.46	5.44	150.75	48	6	156.20	NCHSLT
NAB0218_6-50	50	6	18	225147.5	225147.5	0.70%	3.12	2.03	5.16	184.93	32	4	190.11	NCHSLT
NAB0318_6-50	50	6	18	226671.1	226671.1	0.50%	3.53	0.65	4.19	185.12	40	5	189.32	NCHSLT
NAB0418_6-50	50	6	18	237228.5	237228.5	0.61%	3.98	1.62	5.61	223.50	40	5	229.11	NCHSLT
NAB0518_6-50	50	6	18	227068.8	227068.8	0.81%	3.94	0.76	4.71	207.52	56	7	212.23	NCHSLT
NAB0618_6-50	50	6	18	220434.0	220434.0	0.66%	4.57	1.37	5.96	406.16	56	7	412.12	NCHSLT
NAB0718_6-50	50	6	18	230867.5	230867.5	0.43%	2.86	0.49	3.36	245.99	72	9	249.36	NCHSLT
NAB0818_6-50	50	6	18	215681.6	215681.6	0.46%	2.97	1.98	4.97	114.29	32	4	119.26	NCHSLT
NAB0918_6-50	50	6	18	224944.2	224944.2	0.52%	3.23	1.72	4.95	278.76	56	7	283.72	NCHSLT
NBA006_2-6	6	2	6	8049.4	8049.4	0.12%	0.11	0.02	0.12	0.35	15	3	0.47	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%	0.06	0.01	0.07	0.10	15	3	0.17	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%	0.07	0.02	0.09	0.22	15	3	0.31	NCLSHT
NBA036_2-6	6	2	6	7687.7	7687.7	0.00%	0.06	0.02	0.08	0.45	25	5	0.53	NCLSHT
NBA046_2-6	6	2	6	7759.6	7759.6	0.30%	0.10	0.02	0.12	0.39	20	4	0.51	NCLSHT
NBA056_2-6	6	2	6	9364.1	9364.1	0.24%	0.08	0.02	0.09	0.12	10	2	0.22	NCLSHT
NBA066_2-6	6	2	6	8012.8	8012.8	0.19%	0.07	0.03	0.10	0.25	15	3	0.35	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%	0.07	0.01	0.09	0.13	10	2	0.22	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%	0.08	0.01	0.09	0.15	10	2	0.24	NCLSHT
NBA096_2-6	6	2	6	7096.5	7096.5	0.11%	0.05	0.01	0.06	0.08	10	2	0.15	NCLSHT
NBA0012_2-6	6	2	12	15372.7	15372.7	0.14%	0.25	0.03	0.28	0.76	18	3	1.04	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%	0.17	0.03	0.19	0.47	24	4	0.67	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%	0.14	0.04	0.18	0.39	18	3	0.57	NCLSHT
NBA0312_2-6	6	2	12	14531.7	14531.7	0.11%	0.15	0.03	0.18	0.57	18	3	0.75	NCLSHT
NBA0412_2-6	6	2	12	13518.7	13518.7	0.27%	0.18	0.02	0.20	1.03	18	3	1.23	NCLSHT
NBA0512_2-6	6	2	12	17275.8	17275.8	0.22%	0.09	0.03	0.12	0.28	12	2	0.41	NCLSHT
NBA0612_2-6	6	2	12	14774.7	14774.7	0.03%	0.09	0.02	0.11	0.20	12	2	0.31	NCLSHT
NBA0712_2-6	6	2	12	16545.5	16545.5	0.02%	0.16	0.04	0.20	0.79	18	3	0.99	NCLSHT
NBA0812_2-6	6	2	12	14100.3	14100.3	0.00%	0.14	0.02	0.16	0.47	18	3	0.64	NCLSHT
NBA0912_2-6	6	2	12	16056.8	16056.8	0.00%	0.11	0.04	0.16	0.32	18	3	0.48	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%	0.35	0.04	0.39	2.08	24	3	2.47	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%	0.18	0.03	0.21	0.74	24	3	0.95	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%	0.26	0.03	0.29	1.53	32	4	1.82	NCLSHT
NBA0318_2-6	6	2	18	22926.5	22926.5	0.00%	0.28	0.04	0.33	1.49	32	4	1.82	NCLSHT
NBA0418_2-6	6	2	18	19851.6	19851.6	0.00%	0.36	0.03	0.39	2.63	40	5	3.02	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%	0.17	0.02	0.19	0.51	16	2	0.70	NCLSHT
NBA0618_2-6	6	2	18	22645.6	22645.6	0.11%	0.25	0.04	0.28	1.16	24	3	1.45	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%	0.42	0.03	0.45	2.09	24	3	2.55	NCLSHT
NBA0818_2-6	6	2	18	20731.3	20731.3	0.02%	0.25	0.03	0.28	0.99	24	3	1.27	NCLSHT
NBA0918_2-6	6	2	18	22405.6	22405.6	0.01%	0.14	0.03	0.17	0.79	24	3	0.96	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%	0.08	0.03	0.10	0.16	15	3	0.26	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%	0.09	0.02	0.12	0.16	10	2	0.28	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%	0.12	0.02	0.15	0.40	15	3	0.55	NCLSHT
NBA036_2-12	12	2	6	16299.4	16299.4	0.00%	0.08	0.02	0.10	0.14	10	2	0.24	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%	0.10	0.01	0.11	0.15	10	2	0.26	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%	0.07	0.02	0.09	0.14	10	2	0.23	NCLSHT
NBA066_2-12	12	2	6	13727.3	13727.3	0.00%	0.10	0.02	0.11	0.28	15	3	0.40	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%	0.07	0.01	0.08	0.05	5	1	0.13	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%	0.09	0.02	0.11	0.26	15	3	0.38	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%	0.14	0.02	0.16	0.56	20	4	0.72	NCLSHT
NBA0012_2-12	12	2	12	26002.8	26002.8	0.02%	0.12	0.03	0.16	0.27	12	2	0.43	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%	0.13	0.03	0.16	0.46	18	3	0.62	NCLSHT
NBA0212_2-12	12	2	12	26973.1	26973.1	0.15%	0.28	0.05	0.33	1.69	24	4	2.02	NCLSHT
NBA0312_2-12	12	2	12	31645.6	31645.6	0.00%	0.19	0.03	0.22	0.65	18	3	0.88	NCLSHT
NBA0412_2-12	12	2	12	28156.9	28156.9	0.03%	0.14	0.03	0.17	0.57	12	2	0.75	NCLSHT
NBA0512_2-12	12	2	12	31963.7	31963.7	0.00%	0.15	0.02	0.17	0.58	18	3	0.75	NCLSHT
NBA0612_2-12	12	2	12	27147.6	27147.6	0.05%	0.15	0.05	0.19	0.50	18	3	0.70	NCLSHT
NBA0712_2-12	12	2	12	30161.7	30161.7	0.01%	0.16	0.03	0.19	0.39	18	3	0.58	NCLSHT
NBA0812_2-12	12	2	12	26608.5	26608.5	0.05%	0.23	0.03	0.26	0.98	24	4	1.24	NCLSHT
NBA0912_2-12	12	2	12	30780.3	30780.3	0.07%	0.26	0.05	0.30	1.96	18	3	2.26	NCLSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%	0.44	0.05	0.49	0.69	16	2	1.18	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%	0.38	0.04	0.42	1.47	24	3	1.90	NCLSHT
NBA0218_2-12	12	2	18	41237.0	41237.0	0.05%	0.55	0.05	0.60	5.54	32	4	6.14	NCLSHT
NBA0318_2-12	12	2	18	46065.0	46065.0	0.00%	0.30	0.04	0.35	1.37	16	2	1.73	NCLSHT
NBA0418_2-12	12	2	18	44055.3	44055.3	0.06%	0.26	0.04	0.30	2.07	24	3	2.37	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%	0.26	0.04	0.30	1.10	16	2	1.41	NCLSHT
NBA0618_2-12	12	2	18	40454.2	40454.2	0.00%	0.29	0.05	0.34	1.81	32	4	2.15	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%	0.19	0.04	0.23	1.81	32	4	2.04	NCLSHT
NBA0818_2-12	12	2	18	41119.5	41119.5	0.00%	0.43	0.06	0.49	1.88	16	2	2.38	NCLSHT
NBA0918_2-12	12	2	18	46895.1	46895.1	0.04%	0.50	0.04	0.54	6.36	24	3	6.90	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%	0.12	0.03	0.15	0.40	15	3	0.55	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%	0.16	0.03	0.19	0.32	10	2	0.51	NCLSHT
NBA026_2-25	25	2	6	28314.1	28314.1	0.08%	0.18	0.02	0.21	0.43	10	2	0.64	NCLSHT
NBA036_2-25	25	2	6	30091.5	30091.5	0.05%	0.16	0.02	0.18	0.63	15	3	0.81	NCLSHT
NBA046_2-25	25	2	6	31275.1	31275.1	0.02%	0.21	0.04	0.24	0.95	20	4	1.19	NCLSHT
NBA056_2-25	25	2	6	31286.9	31286.9	0.09%	0.16	0.04	0.20	1.20	20	4	1.40	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%	0.11	0.02	0.13	0.32	20	4	0.46	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%	0.19	0.05	0.24	0.59	15	3	0.83	NCLSHT
NBA086_2-25	25	2	6	31928.1	31928.1	0.16%	0.22	0.03	0.25	0.71	10	2	0.97	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%	0.20	0.03	0.23	0.99	20	4	1.21	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%	0.15	0.03	0.19	0.49	12	2	0.69	NCLSHT
NBA0112_2-25	25	2	12	60755.2	60755.2	0.01%	0.26	0.05	0.30	0.81	12	2	1.12	NCLSHT
NBA0212_2-25	25	2	12	56003.0	56003.0	0.04%	0.41	0.06	0.47	2.69	24	4	3.16	NCLSHT
NBA0312_2-25	25	2	12	59053.8	59053.8	0.04%	0.32	0.04	0.36	2.31	24	4	2.67	NCLSHT
NBA0412_2-25	25	2	12	59436.6	59436.6	0.00%	0.49	0.06	0.55	1.78	24	4	2.34	NCLSHT
NBA0512_2-25	25	2	12	64651.4	64651.4	0.00%	0.38	0.04	0.42	1.08	18	3	1.50	NCLSHT
NBA0612_2-25	25	2	12	57094.2	57094.2	0.00%	0.14	0.05	0.19	0.44	12	2	0.63	NCLSHT
NBA0712_2-25	25	2	12	62607.7	62607.7	0.02%	0.33	0.06	0.40	1.67	18	3	2.07	NCLSHT
NBA0812_2-25	25	2	12	62464.4	62464.4	0.00%	0.42	0.04	0.46	4.13	24	4	4.59	NCLSHT
NBA0912_2-25	25	2	12	63793.8	63793.8	0.02%	0.21	0.04	0.25	0.67	12	2	0.93	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%	0.20	0.06	0.26	1.49	24	3	1.76	NCLSHT
NBA0118_2-25	25	2	18	88422.0	88422.0	0.00%	0.53	0.08	0.61	2.55	24	3	3.16	NCLSHT
NBA0218_2-25	25	2	18	82866.4	82866.4	0.01%	0.50	0.04	0.54	6.21	32	4	6.75	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%	0.43	0.10	0.53	2.39	24	3	2.92	NCLSHT
NBA0418_2-25	25	2	18	90296.5	90296.5	0.03%	0.89	0.06	0.95	7.61	32	4	8.56	NCLSHT
NBA0518_2-25	25	2	18	94617.5	94617.5	0.01%	0.55	0.07	0.62	6.87	24	3	7.50	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%	0.16	0.07	0.24	1.21	24	3	1.45	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%	0.58	0.07	0.65	2.49	16	2	3.14	NCLSHT
NBA0818_2-25	25	2	18	91155.2	91155.2	0.07%	0.64	0.07	0.71	8.43	24	3	9.14	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%	0.45	0.07	0.52	1.99	16	2	2.52	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%	0.21	0.04	0.25	0.44	10	2	0.69	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%	0.26	0.04	0.30	0.47	10	2	0.77	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%	0.25	0.04	0.29	0.61	10	2	0.90	NCLSHT
NBA036_2-50	50	2	6	59065.4	59065.4	0.01%	0.26	0.04	0.30	0.58	10	2	0.88	NCLSHT
NBA046_2-50	50	2	6	60538.6	60538.6	0.01%	0.31	0.04	0.34	0.98	15	3	1.33	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%	0.24	0.05	0.29	0.42	10	2	0.72	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%	0.20	0.04	0.23	0.54	10	2	0.68	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%	0.24	0.04	0.28	0.79	15	3	1.07	NCLSHT
NBA086_2-50	50	2	6	59777.0	59777.0	0.00%	0.33	0.04	0.37	0.65	10	2	1.02	NCLSHT
NBA096_2-50	50	2	6	60442.2	60442.2	0.01%	0.28	0.04	0.32	0.89	15	3	1.21	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%	0.24	0.05	0.30	0.71	12	2	1.01	NCLSHT
NBA0112_2-50	50	2	12	119723.4	119723.4	0.00%	0.31	0.07	0.38	0.88	12	2	1.26	NCLSHT
NBA0212_2-50	50	2	12	113781.7	113781.7	0.01%	0.63	0.07	0.70	1.89	12	2	2.59	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%	0.29	0.09	0.38	0.95	12	2	1.33	NCLSHT
NBA0412_2-50	50	2	12	121762.8	121762.8	0.00%	0.45	0.07	0.52	2.31	18	3	2.83	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%	0.32	0.09	0.41	1.45	12	2	1.86	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%	0.30	0.09	0.39	1.00	12	2	1.39	NCLSHT
NBA0712_2-50	50	2	12	114485.3	114485.3	0.00%	0.30	0.07	0.37	2.32	12	2	2.70	NCLSHT
NBA0812_2-50	50	2	12	115042.9	115042.9	0.01%	0.65	0.07	0.71	2.19	12	2	2.91	NCLSHT
NBA0912_2-50	50	2	12	122211.6	122211.6	0.00%	0.39	0.09	0.48	1.55	18	3	2.04	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%	0.55	0.12	0.67	2.87	24	3	3.54	NCLSHT
NBA0118_2-50	50	2	18	178656.0	178656.0	0.00%	0.36	0.19	0.55	3.67	24	3	4.22	NCLSHT
NBA0218_2-50	50	2	18	169385.1	169385.1	0.00%	0.66	0.08	0.74	5.19	24	3	5.94	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%	0.49	0.10	0.59	4.12	24	3	4.72	NCLSHT
NBA0418_2-50	50	2	18	181166.2	181166.2	0.01%	1.34	0.13	1.48	22.01	32	4	23.49	NCLSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%	0.36	0.13	0.50	2.03	16	2	2.53	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%	0.53	0.11	0.64	3.52	24	3	4.16	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%	0.49	0.19	0.68	2.84	16	2	3.53	NCLSHT
NBA0818_2-50	50	2	18	173126.3	173126.3	0.01%	1.24	0.13	1.38	11.64	32	4	13.03	NCLSHT
NBA0918_2-50	50	2	18	182600.1	182600.1	0.00%	0.71	0.11	0.83	3.65	16	2	4.48	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%	0.07	0.03	0.11	0.17	15	3	0.28	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%	0.12	0.05	0.18	0.34	15	3	0.52	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%	0.11	0.03	0.14	0.19	15	3	0.34	NCLSHT
NBA036_4-6	6	4	6	6632.3	6632.3	0.20%	0.12	0.05	0.16	0.65	20	4	0.82	NCLSHT
NBA046_4-6	6	4	6	5447.3	5447.3	0.31%	0.07	0.02	0.10	0.15	15	3	0.25	NCLSHT
NBA056_4-6	6	4	6	7757.3	7757.3	0.72%	0.12	0.03	0.16	0.45	15	3	0.61	NCLSHT
NBA066_4-6	6	4	6	6283.4	6283.4	0.25%	0.12	0.03	0.15	0.26	10	2	0.41	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%	0.09	0.02	0.12	0.19	15	3	0.31	NCLSHT
NBA086_4-6	6	4	6	5792.0	5792.0	0.00%	0.12	0.03	0.16	0.35	20	4	0.51	NCLSHT
NBA096_4-6	6	4	6	8490.5	8490.5	0.10%	0.11	0.03	0.13	0.55	20	4	0.69	NCLSHT
NBA0012_4-6	6	4	12	11603.5	11603.5	0.20%	0.16	0.03	0.19	0.59	24	4	0.79	NCLSHT
NBA0112_4-6	6	4	12	15074.1	15074.1	0.11%	0.28	0.06	0.34	2.67	24	4	3.01	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%	0.28	0.05	0.34	0.90	24	4	1.24	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%	0.23	0.07	0.31	0.75	18	3	1.05	NCLSHT
NBA0412_4-6	6	4	12	12588.2	12588.2	0.13%	0.28	0.04	0.32	2.06	30	5	2.38	NCLSHT
NBA0512_4-6	6	4	12	15629.5	15629.5	0.24%	0.29	0.10	0.39	4.44	18	3	4.83	NCLSHT
NBA0612_4-6	6	4	12	12674.8	12674.8	0.40%	0.32	0.09	0.41	0.79	18	3	1.21	NCLSHT
NBA0712_4-6	6	4	12	14548.8	14548.8	0.11%	0.25	0.04	0.29	1.04	24	4	1.33	NCLSHT
NBA0812_4-6	6	4	12	12165.7	12165.7	0.00%	0.23	0.04	0.27	1.14	18	3	1.41	NCLSHT
NBA0912_4-6	6	4	12	14700.4	14700.4	0.00%	0.27	0.05	0.32	0.76	24	4	1.09	NCLSHT
NBA0018_4-6	6	4	18	18439.1	18439.1	0.05%	0.37	0.09	0.46	2.08	24	3	2.54	NCLSHT
NBA0118_4-6	6	4	18	21322.6	21322.6	0.00%	0.83	0.13	0.96	2.47	24	3	3.43	NCLSHT
NBA0218_4-6	6	4	18	21169.6	21169.6	0.00%	0.48	0.08	0.57	1.69	24	3	2.26	NCLSHT
NBA0318_4-6	6	4	18	21681.1	21681.1	0.03%	0.53	0.09	0.62	2.33	24	3	2.95	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%	0.40	0.06	0.45	1.75	24	3	2.21	NCLSHT
NBA0518_4-6	6	4	18	23045.9	23045.9	0.13%	0.57	0.08	0.66	6.51	32	4	7.17	NCLSHT
NBA0618_4-6	6	4	18	19484.2	19484.2	0.03%	0.65	0.08	0.73	6.41	40	5	7.14	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%	0.51	0.05	0.57	1.75	24	3	2.32	NCLSHT
NBA0818_4-6	6	4	18	18069.1	18069.1	0.02%	0.47	0.06	0.53	4.13	40	5	4.66	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%	0.63	0.05	0.68	2.45	32	4	3.13	NCLSHT
NBA006_4-12	12	4	6	13153.7	13153.7	0.00%	0.18	0.04	0.22	0.89	15	3	1.11	NCLSHT
NBA016_4-12	12	4	6	15339.4	15339.4	0.19%	0.20	0.04	0.24	1.76	20	4	2.00	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%	0.12	0.02	0.14	0.51	15	3	0.66	NCLSHT
NBA036_4-12	12	4	6	12217.2	12217.2	0.00%	0.16	0.03	0.20	0.68	15	3	0.87	NCLSHT
NBA046_4-12	12	4	6	14277.8	14277.8	0.00%	0.11	0.03	0.14	0.49	15	3	0.64	NCLSHT
NBA056_4-12	12	4	6	14099.3	14099.3	0.05%	0.12	0.04	0.16	0.67	15	3	0.84	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%	0.11	0.05	0.16	0.26	15	3	0.42	NCLSHT
NBA076_4-12	12	4	6	12420.9	12420.9	0.09%	0.12	0.03	0.15	0.41	10	2	0.56	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%	0.12	0.03	0.15	0.58	15	3	0.72	NCLSHT
NBA096_4-12	12	4	6	13227.9	13227.9	0.35%	0.13	0.04	0.18	1.71	25	5	1.88	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%	0.32	0.07	0.38	2.29	24	4	2.67	NCLSHT
NBA0112_4-12	12	4	12	28360.5	28360.5	0.01%	0.53	0.09	0.62	6.23	30	5	6.85	NCLSHT
NBA0212_4-12	12	4	12	26396.4	26396.4	0.01%	0.26	0.04	0.31	0.86	12	2	1.17	NCLSHT
NBA0312_4-12	12	4	12	25294.3	25294.3	0.08%	0.23	0.07	0.30	2.14	24	4	2.43	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%	0.30	0.04	0.34	1.65	18	3	1.99	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%	0.21	0.05	0.27	1.45	24	4	1.72	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%	0.17	0.08	0.25	0.70	18	3	0.96	NCLSHT
NBA0712_4-12	12	4	12	26166.2	26166.2	0.05%	0.30	0.10	0.40	1.63	18	3	2.02	NCLSHT
NBA0812_4-12	12	4	12	28007.1	28007.1	0.05%	0.29	0.05	0.35	1.17	18	3	1.52	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%	0.40	0.07	0.47	5.19	24	4	5.66	NCLSHT
NBA0018_4-12	12	4	18	38035.7	38035.7	0.02%	0.67	0.07	0.74	12.26	40	5	13.00	NCLSHT
NBA0118_4-12	12	4	18	41660.4	41660.4	0.24%	1.07	0.12	1.19	27.11	32	4	28.30	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%	0.50	0.07	0.57	3.48	24	3	4.04	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%	0.60	0.09	0.69	6.06	40	5	6.75	NCLSHT
NBA0418_4-12	12	4	18	40570.9	40570.9	0.01%	0.51	0.09	0.60	16.89	40	5	17.50	NCLSHT
NBA0518_4-12	12	4	18	41012.4	41012.4	0.02%	0.63	0.08	0.72	5.47	24	3	6.18	NCLSHT
NBA0618_4-12	12	4	18	37077.0	37077.0	0.03%	0.41	0.05	0.46	2.50	24	3	2.96	NCLSHT
NBA0718_4-12	12	4	18	41043.3	41043.3	0.02%	0.98	0.10	1.08	9.51	32	4	10.61	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%	0.41	0.06	0.47	3.04	24	3	3.51	NCLSHT
NBA0918_4-12	12	4	18	41429.2	41429.2	0.14%	0.78	0.17	0.96	20.09	24	3	21.06	NCLSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%	0.23	0.05	0.27	0.97	15	3	1.25	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%	0.25	0.04	0.29	1.37	15	3	1.66	NCLSHT
NBA026_4-25	25	4	6	27549.9	27549.9	0.01%	0.20	0.03	0.23	0.83	15	3	1.07	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%	0.28	0.03	0.31	1.48	20	4	1.80	NCLSHT
NBA046_4-25	25	4	6	26626.0	26626.0	0.04%	0.17	0.03	0.21	0.65	15	3	0.87	NCLSHT
NBA056_4-25	25	4	6	30122.2	30122.2	0.04%	0.20	0.03	0.24	0.88	10	2	1.12	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%	0.18	0.03	0.22	0.31	10	2	0.53	NCLSHT
NBA076_4-25	25	4	6	26942.1	26942.1	0.02%	0.23	0.04	0.27	1.12	10	2	1.39	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%	0.18	0.03	0.22	0.66	15	3	0.88	NCLSHT
NBA096_4-25	25	4	6	27864.7	27864.7	0.05%	0.28	0.05	0.33	1.46	20	4	1.79	NCLSHT
NBA0012_4-25	25	4	12	53593.9	53593.9	0.04%	0.58	0.08	0.66	3.81	18	3	4.47	NCLSHT
NBA0112_4-25	25	4	12	56269.0	56269.0	0.02%	0.41	0.09	0.50	2.38	18	3	2.89	NCLSHT
NBA0212_4-25	25	4	12	53163.6	53163.6	0.01%	0.59	0.12	0.71	6.14	24	4	6.85	NCLSHT
NBA0312_4-25	25	4	12	53949.8	53949.8	0.02%	0.42	0.08	0.50	5.77	24	4	6.27	NCLSHT
NBA0412_4-25	25	4	12	54871.9	54871.9	0.01%	0.32	0.08	0.41	1.61	12	2	2.02	NCLSHT
NBA0512_4-25	25	4	12	57055.2	57055.2	0.05%	0.29	0.08	0.37	2.06	12	2	2.44	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%	0.29	0.06	0.35	1.27	18	3	1.62	NCLSHT
NBA0712_4-25	25	4	12	55394.1	55394.1	0.03%	0.61	0.07	0.69	5.08	18	3	5.77	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%	0.40	0.07	0.47	1.26	12	2	1.73	NCLSHT
NBA0912_4-25	25	4	12	54755.7	54755.7	0.03%	0.53	0.06	0.60	4.31	24	4	4.91	NCLSHT
NBA0018_4-25	25	4	18	77879.2	77879.2	0.03%	1.33	0.18	1.51	14.66	24	3	16.18	NCLSHT
NBA0118_4-25	25	4	18	83805.9	83805.9	0.01%	0.65	0.07	0.72	5.54	24	3	6.27	NCLSHT
NBA0218_4-25	25	4	18	80793.0	80793.0	0.02%	0.65	0.12	0.78	13.73	32	4	14.51	NCLSHT
NBA0318_4-25	25	4	18	80246.3	80246.3	0.00%	0.79	0.09	0.88	4.40	16	2	5.28	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%	0.40	0.10	0.50	2.81	24	3	3.31	NCLSHT
NBA0518_4-25	25	4	18	84243.9	84243.9	0.01%	0.86	0.11	0.97	4.21	16	2	5.18	NCLSHT
NBA0618_4-25	25	4	18	77305.9	77305.9	0.00%	0.45	0.10	0.55	3.32	24	3	3.87	NCLSHT
NBA0718_4-25	25	4	18	82403.5	82403.5	0.05%	1.00	0.10	1.10	15.71	32	4	16.82	NCLSHT
NBA0818_4-25	25	4	18	78379.0	78379.0	0.00%	0.74	0.10	0.84	5.53	32	4	6.38	NCLSHT
NBA0918_4-25	25	4	18	82198.8	82198.8	0.00%	1.08	0.11	1.20	5.84	16	2	7.05	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%	0.30	0.06	0.37	0.98	15	3	1.35	NCLSHT
NBA016_4-50	50	4	6	55352.3	55352.3	0.00%	0.34	0.06	0.41	0.75	10	2	1.16	NCLSHT
NBA026_4-50	50	4	6	55984.6	55984.6	0.01%	0.30	0.06	0.36	1.23	20	4	1.59	NCLSHT
NBA036_4-50	50	4	6	55089.4	55089.4	0.00%	0.35	0.07	0.42	1.20	10	2	1.63	NCLSHT
NBA046_4-50	50	4	6	56683.9	56683.9	0.03%	0.39	0.10	0.49	4.03	15	3	4.52	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%	0.18	0.06	0.24	0.83	15	3	1.08	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%	0.30	0.04	0.35	0.28	5	1	0.62	NCLSHT
NBA076_4-50	50	4	6	51565.6	51565.6	0.00%	0.32	0.06	0.38	1.12	15	3	1.50	NCLSHT
NBA086_4-50	50	4	6	52838.0	52838.0	0.01%	0.25	0.08	0.33	1.11	10	2	1.44	NCLSHT
NBA096_4-50	50	4	6	60101.0	60101.0	0.00%	0.29	0.06	0.35	0.62	10	2	0.97	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%	0.76	0.16	0.92	15.63	24	4	16.56	NCLSHT
NBA0112_4-50	50	4	12	108410.9	108410.9	0.00%	0.50	0.14	0.64	2.86	18	3	3.50	NCLSHT
NBA0212_4-50	50	4	12	107881.8	107881.8	0.00%	0.91	0.10	1.02	3.32	18	3	4.34	NCLSHT
NBA0312_4-50	50	4	12	109984.9	109984.9	0.00%	0.75	0.21	0.96	6.58	24	4	7.55	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%	0.65	0.11	0.76	5.89	18	3	6.66	NCLSHT
NBA0512_4-50	50	4	12	111977.9	111977.9	0.01%	0.48	0.08	0.56	3.68	24	4	4.25	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%	0.51	0.10	0.62	1.39	12	2	2.02	NCLSHT
NBA0712_4-50	50	4	12	106406.4	106406.4	0.00%	0.80	0.11	0.92	8.12	18	3	9.04	NCLSHT
NBA0812_4-50	50	4	12	106459.3	106459.3	0.00%	0.38	0.10	0.49	1.53	12	2	2.02	NCLSHT
NBA0912_4-50	50	4	12	114306.6	114306.6	0.00%	0.50	0.11	0.62	3.13	18	3	3.75	NCLSHT
NBA0018_4-50	50	4	18	159939.9	159939.9	0.00%	1.39	0.17	1.56	6.94	24	3	8.51	NCLSHT
NBA0118_4-50	50	4	18	161698.4	161698.4	0.01%	0.94	0.23	1.17	8.35	16	2	9.53	NCLSHT
NBA0218_4-50	50	4	18	162671.4	162671.4	0.01%	1.13	0.27	1.40	31.34	32	4	32.75	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%	1.35	0.35	1.70	10.59	24	3	12.30	NCLSHT
NBA0418_4-50	50	4	18	166162.4	166162.4	0.02%	1.35	0.16	1.52	15.53	24	3	17.05	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%	0.89	0.20	1.10	6.45	16	2	7.55	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%	0.86	0.16	1.03	5.91	24	3	6.95	NCLSHT
NBA0718_4-50	50	4	18	161444.6	161444.6	0.04%	2.05	0.16	2.21	33.03	24	3	35.25	NCLSHT
NBA0818_4-50	50	4	18	157274.5	157274.5	0.00%	0.63	0.24	0.88	5.74	24	3	6.63	NCLSHT
NBA0918_4-50	50	4	18	168431.8	168431.8	0.00%	0.85	0.16	1.02	8.71	16	2	9.73	NCLSHT
NBA006_6-6	6	6	6	5607.3	5607.3	0.00%	0.10	0.04	0.14	0.32	20	4	0.46	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%	0.16	0.06	0.22	0.50	10	2	0.72	NCLSHT
NBA026_6-6	6	6	6	6939.6	6939.6	0.00%	0.13	0.24	0.37	0.37	15	3	0.74	NCLSHT
NBA036_6-6	6	6	6	7315.9	7315.9	0.00%	0.12	0.04	0.16	0.27	10	2	0.44	NCLSHT
NBA046_6-6	6	6	6	8021.5	8021.5	0.05%	0.22	0.06	0.29	0.46	10	2	0.75	NCLSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA056_6-6	6	6	6	7914.6	7914.6	0.04%	0.15	0.04	0.19	0.82	20	4	1.01	NCLSHT
NBA066_6-6	6	6	6	6661.4	6661.4	0.01%	0.09	0.03	0.13	0.34	15	3	0.47	NCLSHT
NBA076_6-6	6	6	6	7695.6	7695.6	0.00%	0.16	0.07	0.24	0.42	15	3	0.66	NCLSHT
NBA086_6-6	6	6	6	6637.0	6637.0	0.18%	0.16	0.08	0.25	0.44	15	3	0.69	NCLSHT
NBA096_6-6	6	6	6	7393.0	7393.0	0.03%	0.18	0.06	0.24	0.36	10	2	0.59	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%	0.21	0.08	0.29	0.47	18	3	0.76	NCLSHT
NBA0112_6-6	6	6	12	14045.9	14045.9	0.01%	0.39	0.20	0.60	4.06	30	5	4.66	NCLSHT
NBA0212_6-6	6	6	12	14140.5	14140.5	0.00%	0.47	0.19	0.66	0.97	18	3	1.63	NCLSHT
NBA0312_6-6	6	6	12	14722.7	14722.7	0.13%	0.36	0.09	0.45	1.57	24	4	2.02	NCLSHT
NBA0412_6-6	6	6	12	14774.8	14774.8	0.17%	0.54	0.29	0.83	2.02	24	4	2.86	NCLSHT
NBA0512_6-6	6	6	12	14534.0	14534.0	0.13%	0.20	0.11	0.32	1.79	24	4	2.10	NCLSHT
NBA0612_6-6	6	6	12	12571.7	12571.7	0.03%	0.34	0.06	0.40	2.00	24	4	2.41	NCLSHT
NBA0712_6-6	6	6	12	15123.9	15123.9	0.09%	0.39	0.16	0.55	1.31	18	3	1.87	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%	0.49	0.12	0.62	1.21	24	4	1.83	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%	0.42	0.12	0.55	1.64	30	5	2.20	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%	0.52	0.13	0.66	1.25	32	4	1.91	NCLSHT
NBA0118_6-6	6	6	18	21526.3	21526.3	0.00%	1.05	0.24	1.30	7.77	40	5	9.08	NCLSHT
NBA0218_6-6	6	6	18	19870.5	19870.5	0.00%	0.88	0.30	1.18	2.59	24	3	3.76	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%	0.80	0.31	1.11	3.02	32	4	4.14	NCLSHT
NBA0418_6-6	6	6	18	21955.9	21955.9	0.01%	1.32	0.55	1.87	4.01	32	4	5.89	NCLSHT
NBA0518_6-6	6	6	18	22132.7	22132.7	0.02%	0.66	0.19	0.84	6.31	32	4	7.15	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%	0.70	0.08	0.78	3.78	32	4	4.57	NCLSHT
NBA0718_6-6	6	6	18	21766.0	21766.0	0.03%	0.85	0.23	1.08	3.62	32	4	4.71	NCLSHT
NBA0818_6-6	6	6	18	19930.5	19930.5	0.11%	1.09	0.16	1.25	3.54	24	3	4.79	NCLSHT
NBA0918_6-6	6	6	18	21307.9	21307.9	0.06%	0.89	0.22	1.11	6.07	40	5	7.18	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%	0.19	0.04	0.24	1.01	15	3	1.25	NCLSHT
NBA016_6-12	12	6	6	13035.9	13035.9	0.02%	0.19	0.05	0.24	1.05	15	3	1.28	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%	0.12	0.05	0.17	0.52	20	4	0.70	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%	0.15	0.07	0.22	0.63	20	4	0.85	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%	0.13	0.06	0.19	0.48	15	3	0.67	NCLSHT
NBA056_6-12	12	6	6	12344.0	12344.0	0.09%	0.12	0.05	0.17	0.44	15	3	0.60	NCLSHT
NBA066_6-12	12	6	6	11667.8	11667.8	0.22%	0.20	0.05	0.25	1.59	20	4	1.84	NCLSHT
NBA076_6-12	12	6	6	13479.1	13479.1	0.00%	0.22	0.05	0.27	1.43	20	4	1.70	NCLSHT
NBA086_6-12	12	6	6	13379.8	13379.8	0.04%	0.23	0.04	0.27	1.72	20	4	1.99	NCLSHT
NBA096_6-12	12	6	6	14325.4	14325.4	0.17%	0.20	0.04	0.24	1.20	15	3	1.45	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%	0.38	0.31	0.69	1.47	18	3	2.16	NCLSHT
NBA0112_6-12	12	6	12	25541.0	25541.0	0.07%	0.41	0.06	0.47	2.15	18	3	2.63	NCLSHT
NBA0212_6-12	12	6	12	24040.7	24040.7	0.06%	0.36	0.07	0.43	4.29	30	5	4.72	NCLSHT
NBA0312_6-12	12	6	12	26449.0	26449.0	0.01%	0.31	0.11	0.43	1.32	12	2	1.75	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%	0.23	0.05	0.28	1.09	18	3	1.37	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%	0.43	0.09	0.52	1.41	18	3	1.94	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%	0.47	0.09	0.56	3.19	24	4	3.75	NCLSHT
NBA0712_6-12	12	6	12	27892.6	27892.6	0.06%	0.55	0.08	0.63	11.42	24	4	12.05	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%	0.68	0.08	0.76	6.77	30	5	7.53	NCLSHT
NBA0912_6-12	12	6	12	27291.6	27291.6	0.06%	0.48	0.12	0.60	10.82	30	5	11.43	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%	1.12	0.09	1.21	3.31	24	3	4.52	NCLSHT
NBA0118_6-12	12	6	18	40980.5	40980.5	0.02%	0.88	0.11	1.00	9.20	24	3	10.20	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%	0.53	0.11	0.64	4.79	24	3	5.44	NCLSHT
NBA0318_6-12	12	6	18	38314.3	38314.3	0.00%	0.63	0.08	0.71	5.43	32	4	6.15	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%	0.49	0.09	0.59	5.38	32	4	5.97	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%	0.58	0.21	0.80	7.61	32	4	8.42	NCLSHT
NBA0618_6-12	12	6	18	37140.3	37140.3	0.00%	1.25	0.11	1.37	9.98	32	4	11.35	NCLSHT
NBA0718_6-12	12	6	18	41275.8	41275.8	0.00%	1.44	0.13	1.58	16.93	40	5	18.51	NCLSHT
NBA0818_6-12	12	6	18	39068.6	39068.6	0.14%	1.20	0.11	1.31	35.48	24	3	36.80	NCLSHT
NBA0918_6-12	12	6	18	41037.3	41037.3	0.02%	0.75	0.21	0.96	17.73	32	4	18.70	NCLSHT
NBA006_6-25	25	6	6	25557.6	25557.6	0.01%	0.34	0.06	0.40	2.44	15	3	2.85	NCLSHT
NBA016_6-25	25	6	6	25300.6	25300.6	0.00%	0.28	0.05	0.34	1.63	15	3	1.97	NCLSHT
NBA026_6-25	25	6	6	26727.4	26727.4	0.04%	0.20	0.05	0.25	1.43	15	3	1.68	NCLSHT
NBA036_6-25	25	6	6	26599.6	26599.6	0.13%	0.34	0.15	0.49	3.79	10	2	4.28	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%	0.34	0.06	0.40	3.68	20	4	4.09	NCLSHT
NBA056_6-25	25	6	6	26229.3	26229.3	0.03%	0.29	0.22	0.51	3.59	15	3	4.10	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%	0.19	0.07	0.26	0.97	15	3	1.23	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%	0.32	0.05	0.38	1.59	15	3	1.97	NCLSHT
NBA086_6-25	25	6	6	26567.2	26567.2	0.02%	0.26	0.04	0.31	0.86	10	2	1.17	NCLSHT
NBA096_6-25	25	6	6	26259.9	26259.9	0.00%	0.32	0.07	0.39	1.97	20	4	2.37	NCLSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0012_6-25	25	6	12	52256.1	52256.1	0.03%	0.68	0.11	0.79	17.36	30	5	18.15	NCLSHT
NBA0112_6-25	25	6	12	52477.0	52477.0	0.01%	0.84	0.09	0.93	27.48	24	4	28.41	NCLSHT
NBA0212_6-25	25	6	12	53885.6	53885.6	0.01%	0.68	0.09	0.77	8.62	24	4	9.39	NCLSHT
NBA0312_6-25	25	6	12	52231.9	52231.9	0.12%	0.83	0.12	0.96	16.10	24	4	17.06	NCLSHT
NBA0412_6-25	25	6	12	55772.0	55772.0	0.10%	1.01	0.15	1.17	25.73	18	3	26.90	NCLSHT
NBA0512_6-25	25	6	12	51663.4	51663.4	0.05%	0.63	0.16	0.79	23.47	18	3	24.26	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%	0.40	0.09	0.49	2.24	24	4	2.73	NCLSHT
NBA0712_6-25	25	6	12	52546.7	52546.7	0.05%	0.83	0.08	0.92	6.79	12	2	7.71	NCLSHT
NBA0812_6-25	25	6	12	51079.7	51079.7	0.01%	0.58	0.21	0.79	5.49	18	3	6.28	NCLSHT
NBA0912_6-25	25	6	12	53465.2	53465.2	0.01%	0.44	0.16	0.61	8.80	24	4	9.41	NCLSHT
NBA0018_6-25	25	6	18	76073.4	76073.4	0.04%	1.32	0.20	1.54	48.41	24	3	49.95	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%	1.25	0.20	1.46	12.49	16	2	13.95	NCLSHT
NBA0218_6-25	25	6	18	81495.4	81495.4	0.01%	1.74	0.15	1.90	24.33	32	4	26.23	NCLSHT
NBA0318_6-25	25	6	18	79345.7	79345.7	0.05%	1.65	0.18	1.83	40.42	24	3	42.26	NCLSHT
NBA0418_6-25	25	6	18	84621.4	84621.4	0.12%	1.42	0.27	1.70	44.79	16	2	46.49	NCLSHT
NBA0518_6-25	25	6	18	80778.7	80778.7	0.00%	1.27	0.18	1.45	23.05	32	4	24.51	NCLSHT
NBA0618_6-25	25	6	18	76162.0	76162.0	0.00%	0.65	0.18	0.84	5.32	24	3	6.16	NCLSHT
NBA0718_6-25	25	6	18	77493.4	77493.4	0.01%	1.02	0.10	1.13	20.08	24	3	21.22	NCLSHT
NBA0818_6-25	25	6	18	74953.6	74953.6	0.02%	1.29	0.15	1.45	13.16	24	3	14.62	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%	0.99	0.13	1.13	16.04	32	4	17.18	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%	0.36	0.11	0.47	1.55	15	3	2.02	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%	0.41	0.12	0.54	2.29	10	2	2.83	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%	0.41	0.12	0.53	2.46	15	3	3.00	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%	0.29	0.06	0.35	1.30	15	3	1.70	NCLSHT
NBA046_6-50	50	6	6	53895.4	53895.4	0.03%	0.75	0.29	1.04	7.91	20	4	8.95	NCLSHT
NBA056_6-50	50	6	6	52662.0	52662.0	0.01%	0.40	0.08	0.49	2.75	15	3	3.24	NCLSHT
NBA066_6-50	50	6	6	51789.5	51789.5	0.01%	0.53	0.13	0.66	13.75	20	4	14.42	NCLSHT
NBA076_6-50	50	6	6	53947.6	53947.6	0.00%	0.39	0.09	0.49	2.64	20	4	3.12	NCLSHT
NBA086_6-50	50	6	6	50767.6	50767.6	0.00%	0.32	0.09	0.41	1.52	15	3	1.94	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%	0.27	0.08	0.35	1.68	15	3	2.03	NCLSHT
NBA0012_6-50	50	6	12	102386.8	102386.8	0.00%	1.04	0.18	1.22	5.74	18	3	6.97	NCLSHT
NBA0112_6-50	50	6	12	101408.3	101408.3	0.01%	0.88	0.21	1.09	9.56	18	3	10.66	NCLSHT
NBA0212_6-50	50	6	12	104862.2	104862.2	0.00%	1.04	0.17	1.22	17.07	18	3	18.29	NCLSHT
NBA0312_6-50	50	6	12	102397.7	102397.7	0.01%	1.05	0.11	1.17	5.10	12	2	6.28	NCLSHT
NBA0412_6-50	50	6	12	109572.2	109572.2	0.00%	1.11	0.31	1.42	10.02	12	2	11.45	NCLSHT
NBA0512_6-50	50	6	12	105149.6	105149.6	0.01%	0.93	0.22	1.16	45.54	24	4	46.70	NCLSHT
NBA0612_6-50	50	6	12	101769.9	101769.9	0.01%	1.49	0.15	1.65	16.39	24	4	18.05	NCLSHT
NBA0712_6-50	50	6	12	107434.2	107434.2	0.00%	0.66	0.17	0.84	6.78	24	4	7.62	NCLSHT
NBA0812_6-50	50	6	12	99745.0	99745.0	0.00%	0.91	0.18	1.10	3.22	12	2	4.32	NCLSHT
NBA0912_6-50	50	6	12	102203.7	102203.7	0.01%	1.19	0.20	1.39	5.80	12	2	7.20	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%	1.53	0.26	1.80	16.62	32	4	18.43	NCLSHT
NBA0118_6-50	50	6	18	150738.8	150738.8	0.00%	1.85	0.36	2.22	30.47	16	2	32.70	NCLSHT
NBA0218_6-50	50	6	18	154216.2	154216.2	0.01%	2.82	0.35	3.18	24.14	16	2	27.32	NCLSHT
NBA0318_6-50	50	6	18	154047.2	154047.2	0.02%	1.96	0.41	2.38	25.69	24	3	28.08	NCLSHT
NBA0418_6-50	50	6	18	164544.9	164544.9	0.00%	1.71	0.50	2.23	36.93	32	4	39.16	NCLSHT
NBA0518_6-50	50	6	18	155220.3	155220.3	0.05%	1.49	0.27	1.76	62.10	24	3	63.87	NCLSHT
NBA0618_6-50	50	6	18	153865.0	153865.0	0.03%	1.99	0.37	2.37	44.52	16	2	46.90	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%	2.06	0.31	2.38	31.28	32	4	33.67	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%	1.43	0.43	1.87	25.96	24	3	27.84	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%	1.55	0.17	1.73	15.29	32	4	17.03	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%	0.11	0.02	0.13	0.22	10	2	0.35	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%	0.06	0.01	0.07	0.03	5	1	0.10	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%	0.09	0.02	0.11	0.25	15	3	0.36	NCLSLT
NBB036_2-6	6	2	6	7766.3	7766.3	0.67%	0.08	0.02	0.10	0.19	10	2	0.29	NCLSLT
NBB046_2-6	6	2	6	7823.4	7823.4	0.32%	0.09	0.02	0.12	0.41	15	3	0.53	NCLSLT
NBB056_2-6	6	2	6	9352.5	9352.5	0.00%	0.08	0.02	0.10	0.07	10	2	0.17	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%	0.08	0.02	0.11	0.21	15	3	0.31	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%	0.11	0.02	0.13	0.40	20	4	0.53	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%	0.08	0.01	0.10	0.06	5	1	0.16	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%	0.05	0.02	0.07	0.12	15	3	0.19	NCLSLT
NBB0012_2-6	6	2	12	15489.2	15489.2	0.00%	0.25	0.03	0.28	1.31	30	5	1.59	NCLSLT
NBB0112_2-6	6	2	12	13327.9	13327.9	0.04%	0.21	0.02	0.23	0.44	18	3	0.67	NCLSLT
NBB0212_2-6	6	2	12	14629.1	14629.1	0.27%	0.17	0.03	0.20	0.53	18	3	0.73	NCLSLT
NBB0312_2-6	6	2	12	14738.1	14738.1	0.05%	0.24	0.03	0.27	0.80	24	4	1.07	NCLSLT
NBB0412_2-6	6	2	12	13598.3	13598.3	0.00%	0.28	0.05	0.33	2.40	42	7	2.73	NCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0512_2-6	6	2	12	17392.5	17392.5	0.31%	0.13	0.02	0.15	0.50	18	3	0.65	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%	0.12	0.03	0.16	0.37	12	2	0.52	NCLSLT
NBB0712_2-6	6	2	12	16601.2	16601.2	0.06%	0.17	0.03	0.21	0.92	24	4	1.13	NCLSLT
NBB0812_2-6	6	2	12	14149.8	14149.8	0.07%	0.17	0.02	0.20	0.68	18	3	0.88	NCLSLT
NBB0912_2-6	6	2	12	16078.0	16078.0	0.02%	0.09	0.02	0.12	0.29	12	2	0.41	NCLSLT
NBB0018_2-6	6	2	18	21645.9	21645.9	0.02%	0.39	0.04	0.43	4.39	32	4	4.82	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%	0.23	0.03	0.27	0.76	24	3	1.03	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%	0.34	0.04	0.38	1.80	32	4	2.18	NCLSLT
NBB0418_2-6	6	2	18	20041.1	20041.1	0.13%	0.47	0.04	0.51	1.40	16	2	1.91	NCLSLT
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%	0.20	0.03	0.23	0.99	24	3	1.22	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%	0.38	0.03	0.41	1.49	32	4	1.90	NCLSLT
NBB0718_2-6	6	2	18	24301.8	24301.8	0.01%	0.39	0.04	0.43	2.97	32	4	3.40	NCLSLT
NBB0818_2-6	6	2	18	20809.3	20809.3	0.00%	0.28	0.05	0.32	2.06	32	4	2.38	NCLSLT
NBB0918_2-6	6	2	18	22438.7	22438.7	0.01%	0.17	0.04	0.21	0.82	24	3	1.04	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%	0.08	0.01	0.10	0.05	5	1	0.16	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%	0.12	0.02	0.14	0.19	10	2	0.33	NCLSLT
NBB026_2-12	12	2	6	14057.0	14057.0	0.02%	0.13	0.03	0.16	0.47	15	3	0.63	NCLSLT
NBB036_2-12	12	2	6	16322.7	16322.7	0.03%	0.08	0.01	0.10	0.23	10	2	0.33	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%	0.13	0.02	0.15	0.20	10	2	0.35	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%	0.08	0.03	0.11	0.38	20	4	0.50	NCLSLT
NBB066_2-12	12	2	6	13804.5	13804.5	0.41%	0.10	0.02	0.12	0.25	10	2	0.37	NCLSLT
NBB076_2-12	12	2	6	15396.6	15396.6	0.00%	0.09	0.02	0.12	0.29	15	3	0.41	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%	0.09	0.01	0.11	0.11	10	2	0.22	NCLSLT
NBB096_2-12	12	2	6	15906.8	15906.8	0.43%	0.18	0.02	0.20	0.45	15	3	0.66	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%	0.16	0.04	0.19	0.43	12	2	0.62	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%	0.18	0.03	0.22	0.50	18	3	0.72	NCLSLT
NBB0212_2-12	12	2	12	27080.3	27080.3	0.11%	0.27	0.07	0.34	2.05	24	4	2.38	NCLSLT
NBB0312_2-12	12	2	12	31700.0	31700.0	0.07%	0.25	0.03	0.28	0.98	24	4	1.26	NCLSLT
NBB0412_2-12	12	2	12	28231.6	28231.6	0.03%	0.18	0.03	0.21	1.73	30	5	1.94	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%	0.21	0.04	0.25	0.44	12	2	0.69	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%	0.18	0.04	0.22	0.59	18	3	0.81	NCLSLT
NBB0712_2-12	12	2	12	30253.9	30253.9	0.03%	0.20	0.03	0.23	0.86	18	3	1.10	NCLSLT
NBB0812_2-12	12	2	12	26630.0	26630.0	0.02%	0.27	0.04	0.31	1.21	24	4	1.52	NCLSLT
NBB0912_2-12	12	2	12	30982.5	30982.5	0.26%	0.34	0.03	0.38	4.74	24	4	5.12	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%	0.51	0.04	0.55	1.48	24	3	2.03	NCLSLT
NBB0118_2-12	12	2	18	40347.6	40347.6	0.02%	0.35	0.05	0.40	3.18	32	4	3.58	NCLSLT
NBB0218_2-12	12	2	18	41453.3	41453.3	0.07%	0.67	0.07	0.75	6.71	32	4	7.46	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%	0.38	0.05	0.43	3.66	24	3	4.08	NCLSLT
NBB0418_2-12	12	2	18	44144.3	44144.3	0.08%	0.32	0.08	0.40	4.58	32	4	4.98	NCLSLT
NBB0518_2-12	12	2	18	47248.5	47248.5	0.03%	0.34	0.05	0.40	2.42	24	3	2.82	NCLSLT
NBB0618_2-12	12	2	18	40542.2	40542.2	0.00%	0.42	0.09	0.50	2.62	32	4	3.13	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%	0.29	0.04	0.33	1.69	24	3	2.02	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%	0.52	0.07	0.59	3.49	32	4	4.09	NCLSLT
NBB0918_2-12	12	2	18	47153.6	47153.6	0.21%	0.61	0.04	0.66	11.63	24	3	12.29	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%	0.15	0.03	0.17	0.30	10	2	0.48	NCLSLT
NBB016_2-25	25	2	6	29864.0	29864.0	0.08%	0.21	0.03	0.24	0.80	15	3	1.04	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%	0.23	0.02	0.25	0.40	10	2	0.65	NCLSLT
NBB036_2-25	25	2	6	30155.8	30155.8	0.11%	0.21	0.02	0.23	0.72	10	2	0.95	NCLSLT
NBB046_2-25	25	2	6	31325.2	31325.2	0.02%	0.22	0.03	0.26	0.59	15	3	0.84	NCLSLT
NBB056_2-25	25	2	6	31397.4	31397.4	0.13%	0.27	0.04	0.31	0.57	10	2	0.88	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%	0.10	0.03	0.13	0.18	10	2	0.31	NCLSLT
NBB076_2-25	25	2	6	31237.5	31237.5	0.03%	0.24	0.03	0.27	0.56	15	3	0.84	NCLSLT
NBB086_2-25	25	2	6	31973.8	31973.8	0.03%	0.24	0.05	0.29	0.82	15	3	1.10	NCLSLT
NBB096_2-25	25	2	6	33004.5	33004.5	0.08%	0.20	0.03	0.24	1.01	15	3	1.25	NCLSLT
NBB0012_2-25	25	2	12	58130.7	58130.7	0.01%	0.21	0.05	0.26	0.96	18	3	1.22	NCLSLT
NBB0112_2-25	25	2	12	60833.7	60833.7	0.05%	0.33	0.05	0.39	3.66	12	2	4.06	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%	0.48	0.09	0.57	1.38	18	3	1.95	NCLSLT
NBB0312_2-25	25	2	12	59102.8	59102.8	0.03%	0.54	0.05	0.59	2.25	24	4	2.85	NCLSLT
NBB0412_2-25	25	2	12	59532.8	59532.8	0.01%	0.38	0.07	0.45	2.77	30	5	3.22	NCLSLT
NBB0512_2-25	25	2	12	64765.0	64765.0	0.02%	0.41	0.04	0.45	1.15	12	2	1.60	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%	0.14	0.07	0.21	0.70	18	3	0.91	NCLSLT
NBB0712_2-25	25	2	12	62685.7	62685.7	0.00%	0.42	0.06	0.48	3.31	30	5	3.79	NCLSLT
NBB0812_2-25	25	2	12	62621.4	62621.4	0.01%	0.47	0.04	0.51	3.69	24	4	4.20	NCLSLT
NBB0912_2-25	25	2	12	63821.6	63821.6	0.03%	0.30	0.04	0.35	1.87	24	4	2.22	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%	0.34	0.04	0.39	1.20	16	2	1.59	NCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%	0.50	0.08	0.58	2.30	24	3	2.88	NCLSLT
NBB0218_2-25	25	2	18	83123.6	83123.6	0.06%	0.75	0.06	0.82	4.50	16	2	5.31	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%	0.66	0.11	0.77	3.36	24	3	4.13	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.01%	0.89	0.06	0.95	6.65	32	4	7.61	NCLSLT
NBB0518_2-25	25	2	18	94863.4	94863.4	0.12%	0.93	0.09	1.02	31.66	24	3	32.68	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%	0.25	0.06	0.32	1.12	16	2	1.44	NCLSLT
NBB0718_2-25	25	2	18	92041.6	92041.6	0.03%	0.99	0.15	1.13	14.41	40	5	15.54	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.03%	0.75	0.06	0.82	9.68	32	4	10.50	NCLSLT
NBB0918_2-25	25	2	18	92935.2	92935.2	0.01%	0.84	0.08	0.92	5.77	24	3	6.70	NCLSLT
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%	0.22	0.03	0.25	0.35	10	2	0.60	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%	0.27	0.05	0.33	0.44	10	2	0.76	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%	0.29	0.05	0.34	0.76	15	3	1.11	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%	0.30	0.03	0.33	0.86	15	3	1.19	NCLSLT
NBB046_2-50	50	2	6	60651.7	60651.7	0.00%	0.37	0.05	0.42	1.05	10	2	1.47	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%	0.29	0.05	0.34	0.80	15	3	1.14	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%	0.24	0.05	0.29	0.76	15	3	1.05	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%	0.30	0.04	0.34	0.55	10	2	0.89	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%	0.37	0.04	0.41	1.29	15	3	1.70	NCLSLT
NBB096_2-50	50	2	6	60526.4	60526.4	0.00%	0.29	0.06	0.35	0.84	10	2	1.19	NCLSLT
NBB0012_2-50	50	2	12	117271.2	117271.2	0.00%	0.30	0.05	0.36	2.00	24	4	2.36	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%	0.34	0.12	0.46	1.11	12	2	1.57	NCLSLT
NBB0212_2-50	50	2	12	113901.0	113901.0	0.00%	0.62	0.10	0.72	2.41	12	2	3.13	NCLSLT
NBB0312_2-50	50	2	12	119786.8	119786.8	0.00%	0.54	0.09	0.63	2.49	12	2	3.12	NCLSLT
NBB0412_2-50	50	2	12	121913.5	121913.5	0.01%	0.71	0.08	0.79	3.52	12	2	4.31	NCLSLT
NBB0512_2-50	50	2	12	119156.3	119156.3	0.01%	0.39	0.10	0.49	1.42	12	2	1.92	NCLSLT
NBB0612_2-50	50	2	12	113557.4	113557.4	0.00%	0.52	0.09	0.61	1.07	12	2	1.69	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%	0.48	0.11	0.59	3.87	12	2	4.46	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%	0.56	0.07	0.64	2.96	18	3	3.60	NCLSLT
NBB0912_2-50	50	2	12	122300.2	122300.2	0.01%	0.59	0.06	0.65	2.67	18	3	3.33	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%	0.44	0.07	0.52	3.00	24	3	3.53	NCLSLT
NBB0118_2-50	50	2	18	178704.0	178704.0	0.00%	0.75	0.17	0.92	2.54	16	2	3.46	NCLSLT
NBB0218_2-50	50	2	18	169536.1	169536.1	0.00%	0.80	0.10	0.91	5.64	16	2	6.55	NCLSLT
NBB0318_2-50	50	2	18	180942.2	180942.2	0.01%	0.71	0.12	0.83	3.97	16	2	4.80	NCLSLT
NBB0418_2-50	50	2	18	181476.9	181476.9	0.03%	1.44	0.11	1.55	27.81	16	2	29.37	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%	0.55	0.10	0.66	3.05	16	2	3.72	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%	0.75	0.11	0.87	3.18	16	2	4.05	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%	0.87	0.10	0.98	4.02	16	2	5.01	NCLSLT
NBB0818_2-50	50	2	18	173339.2	173339.2	0.01%	1.18	0.11	1.29	12.72	32	4	14.01	NCLSLT
NBB0918_2-50	50	2	18	182743.0	182743.0	0.01%	1.03	0.11	1.15	5.92	16	2	7.07	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%	0.15	0.04	0.20	0.52	15	3	0.72	NCLSLT
NBB016_4-6	6	4	6	7260.5	7260.5	0.13%	0.16	0.07	0.23	0.75	15	3	0.98	NCLSLT
NBB026_4-6	6	4	6	7331.9	7331.9	0.03%	0.13	0.04	0.17	0.41	15	3	0.57	NCLSLT
NBB036_4-6	6	4	6	6717.6	6717.6	0.16%	0.14	0.04	0.18	0.54	15	3	0.72	NCLSLT
NBB046_4-6	6	4	6	5589.8	5589.8	0.37%	0.12	0.03	0.15	0.26	10	2	0.41	NCLSLT
NBB056_4-6	6	4	6	7899.0	7899.0	0.00%	0.18	0.04	0.21	1.38	20	4	1.59	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%	0.16	0.04	0.20	0.29	15	3	0.49	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%	0.11	0.02	0.14	0.15	10	2	0.29	NCLSLT
NBB086_4-6	6	4	6	5863.2	5863.2	0.00%	0.14	0.03	0.16	0.33	15	3	0.50	NCLSLT
NBB096_4-6	6	4	6	8521.1	8521.1	0.00%	0.14	0.03	0.17	0.30	10	2	0.47	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%	0.22	0.05	0.28	0.72	24	4	1.00	NCLSLT
NBB0112_4-6	6	4	12	15246.3	15246.3	0.12%	0.34	0.09	0.43	3.08	24	4	3.51	NCLSLT
NBB0212_4-6	6	4	12	14588.8	14588.8	0.03%	0.34	0.07	0.41	1.56	24	4	1.96	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%	0.33	0.08	0.42	0.85	18	3	1.27	NCLSLT
NBB0412_4-6	6	4	12	12883.9	12883.9	0.00%	0.61	0.10	0.71	4.70	24	4	5.42	NCLSLT
NBB0512_4-6	6	4	12	15811.1	15811.1	0.02%	0.33	0.08	0.42	9.91	24	4	10.33	NCLSLT
NBB0612_4-6	6	4	12	12830.1	12830.1	0.44%	0.41	0.08	0.48	0.72	18	3	1.20	NCLSLT
NBB0712_4-6	6	4	12	14725.0	14725.0	0.08%	0.29	0.05	0.34	1.02	24	4	1.36	NCLSLT
NBB0812_4-6	6	4	12	12370.7	12370.7	0.06%	0.33	0.08	0.41	1.69	24	4	2.09	NCLSLT
NBB0912_4-6	6	4	12	14839.4	14839.4	0.02%	0.37	0.04	0.41	0.63	18	3	1.04	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%	0.63	0.10	0.73	3.47	24	3	4.20	NCLSLT
NBB0118_4-6	6	4	18	21717.1	21717.1	0.00%	0.83	0.13	0.96	7.23	40	5	8.19	NCLSLT
NBB0218_4-6	6	4	18	21440.4	21440.4	0.02%	0.63	0.10	0.73	2.78	24	3	3.52	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%	0.60	0.10	0.71	3.57	32	4	4.28	NCLSLT
NBB0418_4-6	6	4	18	19969.8	19969.8	0.00%	0.66	0.09	0.75	5.61	32	4	6.36	NCLSLT
NBB0518_4-6	6	4	18	23482.1	23482.1	0.00%	0.94	0.12	1.06	9.87	32	4	10.93	NCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0618_4-6	6	4	18	19868.3	19868.3	0.00%	0.92	0.12	1.04	3.63	24	3	4.67	NCLSLT
NBB0718_4-6	6	4	18	22422.6	22422.6	0.03%	0.63	0.10	0.73	3.50	32	4	4.23	NCLSLT
NBB0818_4-6	6	4	18	18186.6	18186.6	0.00%	0.93	0.07	1.00	2.02	24	3	3.03	NCLSLT
NBB0918_4-6	6	4	18	22163.4	22163.4	0.10%	0.70	0.06	0.77	1.32	16	2	2.09	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%	0.19	0.03	0.23	0.67	10	2	0.89	NCLSLT
NBB016_4-12	12	4	6	15429.4	15429.4	0.02%	0.25	0.06	0.31	1.93	20	4	2.24	NCLSLT
NBB026_4-12	12	4	6	13158.9	13158.9	0.00%	0.15	0.03	0.18	0.81	20	4	0.98	NCLSLT
NBB036_4-12	12	4	6	12368.3	12368.3	0.07%	0.20	0.05	0.25	1.42	20	4	1.67	NCLSLT
NBB046_4-12	12	4	6	14382.5	14382.5	0.12%	0.16	0.03	0.19	0.67	15	3	0.86	NCLSLT
NBB056_4-12	12	4	6	14179.6	14179.6	0.08%	0.16	0.03	0.19	0.60	10	2	0.79	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%	0.15	0.04	0.19	0.30	15	3	0.49	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%	0.18	0.04	0.22	0.42	10	2	0.64	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%	0.17	0.03	0.20	0.60	15	3	0.80	NCLSLT
NBB096_4-12	12	4	6	13281.2	13281.2	0.00%	0.19	0.04	0.23	2.53	25	5	2.75	NCLSLT
NBB0012_4-12	12	4	12	24825.3	24825.3	0.07%	0.43	0.17	0.61	10.54	30	5	11.14	NCLSLT
NBB0112_4-12	12	4	12	28638.4	28638.4	0.16%	0.70	0.13	0.83	10.79	30	5	11.62	NCLSLT
NBB0212_4-12	12	4	12	26564.6	26564.6	0.11%	0.39	0.09	0.48	2.46	18	3	2.94	NCLSLT
NBB0312_4-12	12	4	12	25486.1	25486.1	0.01%	0.41	0.05	0.46	3.12	24	4	3.59	NCLSLT
NBB0412_4-12	12	4	12	27362.0	27362.0	0.00%	0.41	0.06	0.48	3.30	30	5	3.77	NCLSLT
NBB0512_4-12	12	4	12	27958.9	27958.9	0.02%	0.30	0.08	0.38	4.24	18	3	4.61	NCLSLT
NBB0612_4-12	12	4	12	24662.0	24662.0	0.18%	0.22	0.11	0.33	0.97	18	3	1.31	NCLSLT
NBB0712_4-12	12	4	12	26357.1	26357.1	0.00%	0.48	0.11	0.59	4.27	24	4	4.86	NCLSLT
NBB0812_4-12	12	4	12	28127.9	28127.9	0.00%	0.48	0.05	0.54	1.74	18	3	2.28	NCLSLT
NBB0912_4-12	12	4	12	28675.9	28675.9	0.24%	0.58	0.12	0.70	5.48	12	2	6.18	NCLSLT
NBB0018_4-12	12	4	18	38492.2	38492.2	0.20%	1.09	0.10	1.19	25.93	40	5	27.12	NCLSLT
NBB0118_4-12	12	4	18	42094.4	42094.4	0.26%	1.40	0.21	1.61	42.94	40	5	44.55	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%	0.72	0.08	0.80	7.71	32	4	8.52	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%	1.02	0.12	1.15	13.33	24	3	14.48	NCLSLT
NBB0418_4-12	12	4	18	40774.1	40774.1	0.05%	0.72	0.14	0.87	18.34	40	5	19.21	NCLSLT
NBB0518_4-12	12	4	18	41198.4	41198.4	0.08%	0.62	0.17	0.79	10.47	16	2	11.27	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%	0.49	0.06	0.55	2.80	24	3	3.35	NCLSLT
NBB0718_4-12	12	4	18	41242.7	41242.7	0.06%	0.94	0.15	1.09	13.06	32	4	14.16	NCLSLT
NBB0818_4-12	12	4	18	42909.0	42909.0	0.02%	0.71	0.13	0.85	7.87	32	4	8.71	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	0.21%	0.91	0.14	1.05	33.93	24	3	34.98	NCLSLT
NBB006_4-25	25	4	6	25620.5	25620.5	0.07%	0.33	0.06	0.39	2.17	15	3	2.56	NCLSLT
NBB016_4-25	25	4	6	29489.7	29489.7	0.00%	0.29	0.06	0.35	1.84	20	4	2.19	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%	0.32	0.08	0.40	3.15	15	3	3.54	NCLSLT
NBB036_4-25	25	4	6	26071.8	26071.8	0.05%	0.32	0.06	0.38	3.72	15	3	4.10	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%	0.18	0.04	0.22	0.42	10	2	0.64	NCLSLT
NBB056_4-25	25	4	6	30184.7	30184.7	0.05%	0.26	0.05	0.31	1.42	15	3	1.74	NCLSLT
NBB066_4-25	25	4	6	25397.8	25397.8	0.05%	0.25	0.04	0.30	0.49	10	2	0.79	NCLSLT
NBB076_4-25	25	4	6	27106.2	27106.2	0.05%	0.34	0.06	0.40	2.98	20	4	3.38	NCLSLT
NBB086_4-25	25	4	6	26279.6	26279.6	0.05%	0.25	0.05	0.30	1.02	15	3	1.33	NCLSLT
NBB096_4-25	25	4	6	27956.4	27956.4	0.00%	0.32	0.04	0.36	1.46	15	3	1.82	NCLSLT
NBB0012_4-25	25	4	12	53753.3	53753.3	0.03%	0.99	0.14	1.13	20.07	30	5	21.21	NCLSLT
NBB0112_4-25	25	4	12	56377.6	56377.6	0.04%	0.58	0.09	0.67	5.12	18	3	5.79	NCLSLT
NBB0212_4-25	25	4	12	53369.4	53369.4	0.11%	0.78	0.08	0.87	10.99	18	3	11.86	NCLSLT
NBB0312_4-25	25	4	12	54139.7	54139.7	0.02%	0.63	0.23	0.86	12.40	18	3	13.27	NCLSLT
NBB0412_4-25	25	4	12	54990.3	54990.3	0.02%	0.45	0.06	0.51	6.43	36	6	6.94	NCLSLT
NBB0512_4-25	25	4	12	57159.1	57159.1	0.06%	0.41	0.11	0.52	5.73	18	3	6.26	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%	0.34	0.08	0.43	3.71	24	4	4.14	NCLSLT
NBB0712_4-25	25	4	12	55613.4	55613.4	0.06%	0.75	0.11	0.85	27.28	24	4	28.13	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%	0.56	0.10	0.66	6.16	24	4	6.82	NCLSLT
NBB0912_4-25	25	4	12	54995.5	54995.5	0.14%	1.04	0.07	1.12	20.22	18	3	21.34	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.04%	1.38	0.12	1.51	25.66	32	4	27.17	NCLSLT
NBB0118_4-25	25	4	18	83918.6	83918.6	0.00%	1.04	0.10	1.15	8.01	24	3	9.17	NCLSLT
NBB0218_4-25	25	4	18	81001.7	81001.7	0.07%	1.14	0.14	1.28	41.63	24	3	42.92	NCLSLT
NBB0318_4-25	25	4	18	80556.0	80556.0	0.09%	2.15	0.17	2.32	18.14	16	2	20.46	NCLSLT
NBB0418_4-25	25	4	18	83348.5	83348.5	0.00%	0.61	0.08	0.70	4.22	24	3	4.93	NCLSLT
NBB0518_4-25	25	4	18	84465.4	84465.4	0.08%	1.19	0.18	1.37	27.72	24	3	29.10	NCLSLT
NBB0618_4-25	25	4	18	77436.2	77436.2	0.03%	0.94	0.14	1.09	4.90	24	3	5.99	NCLSLT
NBB0718_4-25	25	4	18	82788.6	82788.6	0.14%	2.11	0.18	2.30	57.22	24	3	59.53	NCLSLT
NBB0818_4-25	25	4	18	78524.1	78524.1	0.00%	1.12	0.10	1.23	11.07	32	4	12.30	NCLSLT
NBB0918_4-25	25	4	18	82454.2	82454.2	0.08%	1.08	0.13	1.21	39.77	24	3	40.99	NCLSLT
NBB006_4-50	50	4	6	54640.8	54640.8	0.00%	0.44	0.05	0.49	2.12	20	4	2.62	NCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB016_4-50	50	4	6	55422.0	55422.0	0.01%	0.45	0.06	0.51	1.78	15	3	2.29	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%	0.48	0.07	0.55	3.15	20	4	3.70	NCLSLT
NBB036_4-50	50	4	6	55293.0	55293.0	0.04%	0.77	0.08	0.85	8.00	15	3	8.85	NCLSLT
NBB046_4-50	50	4	6	56935.8	56935.8	0.03%	0.51	0.08	0.59	12.34	20	4	12.93	NCLSLT
NBB056_4-50	50	4	6	57378.1	57378.1	0.01%	0.31	0.07	0.38	1.73	10	2	2.11	NCLSLT
NBB066_4-50	50	4	6	52874.7	52874.7	0.01%	0.41	0.09	0.50	3.09	15	3	3.59	NCLSLT
NBB076_4-50	50	4	6	51700.3	51700.3	0.05%	0.54	0.07	0.62	3.49	15	3	4.12	NCLSLT
NBB086_4-50	50	4	6	52926.5	52926.5	0.01%	0.39	0.08	0.47	3.37	15	3	3.84	NCLSLT
NBB096_4-50	50	4	6	60170.2	60170.2	0.01%	0.40	0.08	0.49	2.51	20	4	3.00	NCLSLT
NBB0012_4-50	50	4	12	110453.6	110453.6	0.01%	1.09	0.17	1.27	23.98	18	3	25.25	NCLSLT
NBB0112_4-50	50	4	12	108491.1	108491.1	0.01%	1.01	0.14	1.16	8.56	24	4	9.72	NCLSLT
NBB0212_4-50	50	4	12	108046.4	108046.4	0.02%	1.16	0.11	1.28	4.03	12	2	5.31	NCLSLT
NBB0312_4-50	50	4	12	110228.1	110228.1	0.05%	1.33	0.22	1.55	14.93	12	2	16.48	NCLSLT
NBB0412_4-50	50	4	12	109742.5	109742.5	0.06%	1.18	0.14	1.32	21.13	12	2	22.45	NCLSLT
NBB0512_4-50	50	4	12	112016.7	112016.7	0.00%	0.88	0.08	0.96	3.45	18	3	4.43	NCLSLT
NBB0612_4-50	50	4	12	104018.2	104018.2	0.00%	0.58	0.09	0.67	2.75	18	3	3.42	NCLSLT
NBB0712_4-50	50	4	12	106659.8	106659.8	0.05%	1.13	0.14	1.28	26.99	24	4	28.27	NCLSLT
NBB0812_4-50	50	4	12	106540.6	106540.6	0.02%	0.56	0.14	0.71	3.99	18	3	4.70	NCLSLT
NBB0912_4-50	50	4	12	114395.5	114395.5	0.01%	1.26	0.14	1.41	6.28	18	3	7.69	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.01%	1.71	0.21	1.93	20.08	24	3	22.02	NCLSLT
NBB0118_4-50	50	4	18	161829.7	161829.7	0.01%	1.60	0.21	1.82	12.61	24	3	14.44	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.01%	1.83	0.23	2.07	23.88	24	3	25.96	NCLSLT
NBB0318_4-50	50	4	18	163416.4	163416.4	0.06%	2.56	0.16	2.72	103.86	40	5	106.59	NCLSLT
NBB0418_4-50	50	4	18	166610.3	166610.3	0.05%	2.15	0.13	2.28	47.39	16	2	49.68	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.01%	1.42	0.18	1.60	9.20	16	2	10.81	NCLSLT
NBB0618_4-50	50	4	18	156366.5	156366.5	0.01%	0.98	0.18	1.16	13.32	24	3	14.49	NCLSLT
NBB0718_4-50	50	4	18	161805.2	161805.2	0.06%	2.53	0.21	2.75	60.80	32	4	63.56	NCLSLT
NBB0818_4-50	50	4	18	157363.6	157363.6	0.00%	1.01	0.17	1.18	5.28	16	2	6.47	NCLSLT
NBB0918_4-50	50	4	18	168536.5	168536.5	0.00%	1.29	0.12	1.42	13.08	16	2	14.50	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%	0.15	0.09	0.24	0.34	20	4	0.58	NCLSLT
NBB016_6-6	6	6	6	7369.1	7369.1	0.13%	0.21	0.11	0.32	1.70	20	4	2.03	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%	0.31	0.04	0.35	0.33	15	3	0.68	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%	0.16	0.07	0.23	0.62	15	3	0.85	NCLSLT
NBB046_6-6	6	6	6	8181.5	8181.5	0.15%	0.20	0.06	0.26	0.58	10	2	0.84	NCLSLT
NBB056_6-6	6	6	6	8078.7	8078.7	0.14%	0.16	0.07	0.24	0.66	15	3	0.90	NCLSLT
NBB066_6-6	6	6	6	6774.3	6774.3	0.00%	0.13	0.04	0.17	0.73	20	4	0.91	NCLSLT
NBB076_6-6	6	6	6	7827.1	7827.1	0.00%	0.23	0.06	0.29	0.35	10	2	0.64	NCLSLT
NBB086_6-6	6	6	6	6726.0	6726.0	0.00%	0.19	0.09	0.29	0.41	15	3	0.70	NCLSLT
NBB096_6-6	6	6	6	7605.0	7605.0	0.05%	0.22	0.07	0.29	0.90	15	3	1.20	NCLSLT
NBB0012_6-6	6	6	12	12206.9	12206.9	0.03%	0.26	0.08	0.33	0.64	18	3	0.98	NCLSLT
NBB0112_6-6	6	6	12	14403.9	14403.9	0.01%	0.50	0.23	0.73	2.89	30	5	3.62	NCLSLT
NBB0212_6-6	6	6	12	14375.1	14375.1	0.06%	0.61	0.13	0.74	1.22	18	3	1.97	NCLSLT
NBB0312_6-6	6	6	12	14880.8	14880.8	0.02%	0.52	0.11	0.63	1.66	24	4	2.29	NCLSLT
NBB0412_6-6	6	6	12	15156.9	15156.9	0.13%	0.61	0.18	0.80	3.08	30	5	3.88	NCLSLT
NBB0512_6-6	6	6	12	14863.5	14863.5	0.18%	0.29	0.18	0.47	1.87	18	3	2.34	NCLSLT
NBB0612_6-6	6	6	12	12890.3	12890.3	0.11%	0.53	0.10	0.63	1.70	18	3	2.33	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%	0.54	0.14	0.69	1.14	18	3	1.83	NCLSLT
NBB0812_6-6	6	6	12	12741.0	12741.0	0.33%	0.56	0.18	0.74	1.24	18	3	1.98	NCLSLT
NBB0912_6-6	6	6	12	14398.2	14398.2	0.00%	0.59	0.15	0.75	2.72	18	3	3.47	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%	0.78	0.18	0.97	1.12	24	3	2.09	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%	1.21	0.17	1.38	4.94	40	5	6.32	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%	1.08	0.27	1.36	3.43	32	4	4.79	NCLSLT
NBB0418_6-6	6	6	18	22540.7	22540.7	0.07%	1.66	0.22	1.88	6.88	32	4	8.75	NCLSLT
NBB0518_6-6	6	6	18	22516.1	22516.1	0.03%	0.62	0.29	0.91	4.45	32	4	5.36	NCLSLT
NBB0618_6-6	6	6	18	20310.7	20310.7	0.02%	1.14	0.10	1.24	6.83	24	3	8.08	NCLSLT
NBB0718_6-6	6	6	18	22124.2	22124.2	0.01%	1.06	0.24	1.30	3.87	32	4	5.17	NCLSLT
NBB0818_6-6	6	6	18	20375.3	20375.3	0.20%	1.56	0.29	1.85	3.28	24	3	5.13	NCLSLT
NBB0918_6-6	6	6	18	21834.2	21834.2	0.07%	1.44	0.31	1.76	13.62	32	4	15.38	NCLSLT
NBB006_6-12	12	6	6	12851.3	12851.3	0.17%	0.25	0.04	0.29	0.82	15	3	1.12	NCLSLT
NBB016_6-12	12	6	6	13163.8	13163.8	0.00%	0.28	0.06	0.34	2.08	15	3	2.42	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%	0.18	0.14	0.32	1.63	20	4	1.96	NCLSLT
NBB036_6-12	12	6	6	13024.9	13024.9	0.05%	0.19	0.07	0.47	0.61	10	2	1.07	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%	0.21	0.04	0.25	1.07	20	4	1.32	NCLSLT
NBB056_6-12	12	6	6	12453.2	12453.2	0.34%	0.18	0.05	0.23	0.93	15	3	1.16	NCLSLT
NBB066_6-12	12	6	6	11748.5	11748.5	0.18%	0.27	0.07	0.34	1.21	15	3	1.56	NCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB076_6-12	12	6	6	13651.8	13651.8	0.05%	0.32	0.04	0.37	3.57	20	4	3.94	NCLSLT
NBB086_6-12	12	6	6	13543.9	13543.9	0.11%	0.33	0.06	0.40	2.48	25	5	2.88	NCLSLT
NBB096_6-12	12	6	6	14443.6	14443.6	0.12%	0.30	0.06	0.36	2.47	15	3	2.83	NCLSLT
NBB0012_6-12	12	6	12	24296.8	24296.8	0.03%	0.54	0.11	0.66	3.38	24	4	4.04	NCLSLT
NBB0112_6-12	12	6	12	25794.8	25794.8	0.05%	0.49	0.16	0.65	4.23	24	4	4.88	NCLSLT
NBB0212_6-12	12	6	12	24324.2	24324.2	0.15%	0.61	0.16	0.78	13.91	18	3	14.69	NCLSLT
NBB0312_6-12	12	6	12	26663.2	26663.2	0.00%	0.42	0.14	0.57	2.92	24	4	3.49	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%	0.42	0.16	0.58	3.09	24	4	3.67	NCLSLT
NBB0512_6-12	12	6	12	26411.8	26411.8	0.02%	0.55	0.16	0.71	6.66	24	4	7.37	NCLSLT
NBB0612_6-12	12	6	12	23725.2	23725.2	0.01%	0.63	0.09	0.73	6.87	18	3	7.60	NCLSLT
NBB0712_6-12	12	6	12	28207.0	28207.0	0.10%	0.75	0.12	0.87	25.39	24	4	26.27	NCLSLT
NBB0812_6-12	12	6	12	26085.7	26085.7	0.19%	1.10	0.14	1.24	14.32	30	5	15.57	NCLSLT
NBB0912_6-12	12	6	12	27542.2	27542.2	0.14%	0.54	0.16	0.71	14.93	18	3	15.64	NCLSLT
NBB0018_6-12	12	6	18	36608.8	36608.8	0.00%	1.16	0.10	1.26	8.45	24	3	9.72	NCLSLT
NBB0118_6-12	12	6	18	41385.7	41385.7	0.07%	0.99	0.14	1.14	17.71	24	3	18.85	NCLSLT
NBB0218_6-12	12	6	18	37095.0	37095.0	0.11%	0.83	0.13	0.96	28.72	24	3	29.69	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%	1.01	0.17	1.19	14.38	48	6	15.57	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%	0.93	0.16	1.09	7.67	32	4	8.77	NCLSLT
NBB0518_6-12	12	6	18	40708.1	40708.1	0.03%	0.92	0.19	1.11	10.96	32	4	12.08	NCLSLT
NBB0618_6-12	12	6	18	37571.0	37571.0	0.12%	1.87	0.12	2.00	40.77	32	4	42.78	NCLSLT
NBB0718_6-12	12	6	18	41715.9	41715.9	0.11%	1.41	0.14	1.55	50.26	24	3	51.81	NCLSLT
NBB0818_6-12	12	6	18	39702.8	39702.8	0.30%	2.08	0.35	2.43	74.96	40	5	77.41	NCLSLT
NBB0918_6-12	12	6	18	41498.2	41498.2	0.14%	1.31	0.29	1.62	30.01	32	4	31.62	NCLSLT
NBB006_6-25	25	6	6	25736.7	25736.7	0.03%	0.44	0.07	0.51	36.74	20	4	37.26	NCLSLT
NBB016_6-25	25	6	6	25441.2	25441.2	0.01%	0.44	0.06	0.51	4.28	20	4	4.79	NCLSLT
NBB026_6-25	25	6	6	26825.7	26825.7	0.00%	0.28	0.05	0.34	2.78	15	3	3.12	NCLSLT
NBB036_6-25	25	6	6	26890.7	26890.7	0.09%	0.47	0.18	0.65	20.81	25	5	21.46	NCLSLT
NBB046_6-25	25	6	6	28599.9	28599.9	0.15%	0.57	0.08	0.66	33.20	25	5	33.86	NCLSLT
NBB056_6-25	25	6	6	26370.4	26370.4	0.09%	0.39	0.10	0.49	14.45	15	3	14.94	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%	0.30	0.07	0.37	5.33	20	4	5.71	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%	0.45	0.13	0.58	4.34	20	4	4.92	NCLSLT
NBB086_6-25	25	6	6	26723.8	26723.8	0.03%	0.59	0.11	0.70	18.60	25	5	19.32	NCLSLT
NBB096_6-25	25	6	6	26421.3	26421.3	0.02%	0.43	0.06	0.50	4.50	25	5	5.00	NCLSLT
NBB0012_6-25	25	6	12	52555.1	52555.1	0.14%	1.07	0.14	1.21	42.23	24	4	43.45	NCLSLT
NBB0112_6-25	25	6	12	52735.3	52735.3	0.17%	1.33	0.15	1.48	46.53	18	3	48.01	NCLSLT
NBB0212_6-25	25	6	12	54085.0	54085.0	0.08%	0.78	0.12	0.91	19.05	24	4	19.96	NCLSLT
NBB0312_6-25	25	6	12	52614.6	52614.6	0.29%	1.26	0.25	1.51	57.77	18	3	59.28	NCLSLT
NBB0412_6-25	25	6	12	56130.4	56130.4	0.19%	1.52	0.21	1.74	75.09	24	4	76.83	NCLSLT
NBB0512_6-25	25	6	12	51921.4	51921.4	0.14%	0.88	0.38	1.27	33.16	18	3	34.43	NCLSLT
NBB0612_6-25	25	6	12	51038.4	51038.4	0.00%	0.70	0.10	0.80	5.88	24	4	6.69	NCLSLT
NBB0712_6-25	25	6	12	52878.2	52878.2	0.15%	0.95	0.17	1.13	36.33	24	4	37.47	NCLSLT
NBB0812_6-25	25	6	12	51286.7	51286.7	0.02%	0.81	0.16	0.98	19.82	24	4	20.80	NCLSLT
NBB0912_6-25	25	6	12	53724.3	53724.3	0.05%	1.06	0.17	1.23	23.83	18	3	25.07	NCLSLT
NBB0018_6-25	25	6	18	76596.0	76596.0	0.23%	2.17	0.30	2.47	131.73	24	3	134.20	NCLSLT
NBB0118_6-25	25	6	18	79523.5	79523.5	0.10%	1.88	0.20	2.09	66.18	24	3	68.27	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.06%	2.64	0.20	2.84	33.64	16	2	36.48	NCLSLT
NBB0318_6-25	25	6	18	80013.5	80013.5	0.26%	2.45	0.69	3.15	180.36	24	3	183.51	NCLSLT
NBB0418_6-25	25	6	18	85046.2	85046.2	0.12%	1.92	0.27	2.21	168.43	32	4	170.64	NCLSLT
NBB0518_6-25	25	6	18	81134.8	81134.8	0.10%	1.35	0.24	1.60	82.66	24	3	84.27	NCLSLT
NBB0618_6-25	25	6	18	76379.8	76379.8	0.00%	1.47	0.16	1.63	9.27	16	2	10.90	NCLSLT
NBB0718_6-25	25	6	18	77941.4	77941.4	0.18%	1.65	0.16	1.81	79.38	16	2	81.20	NCLSLT
NBB0818_6-25	25	6	18	75256.0	75256.0	0.09%	1.83	0.30	2.14	60.95	24	3	63.10	NCLSLT
NBB0918_6-25	25	6	18	81408.2	81408.2	-0.01%	1.80	0.15	1.96	57.07	24	3	59.03	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%	0.66	0.09	0.75	8.38	15	3	9.13	NCLSLT
NBB016_6-50	50	6	6	50707.6	50707.6	0.04%	0.59	0.13	0.72	17.92	20	4	18.64	NCLSLT
NBB026_6-50	50	6	6	52243.8	52243.8	0.04%	0.80	0.10	0.90	46.16	20	4	47.06	NCLSLT
NBB036_6-50	50	6	6	51745.7	51745.7	0.00%	0.53	0.29	0.82	7.50	10	2	8.33	NCLSLT
NBB046_6-50	50	6	6	54085.5	54085.5	0.06%	0.77	0.21	0.98	31.96	20	4	32.94	NCLSLT
NBB056_6-50	50	6	6	52861.8	52861.8	0.07%	0.62	0.19	0.82	21.19	20	4	22.01	NCLSLT
NBB066_6-50	50	6	6	52071.5	52071.5	0.07%	0.87	0.16	1.04	38.25	20	4	39.29	NCLSLT
NBB076_6-50	50	6	6	54053.0	54053.0	0.05%	0.54	0.12	0.67	4.00	15	3	4.67	NCLSLT
NBB086_6-50	50	6	6	50947.9	50947.9	0.00%	0.77	0.29	1.07	36.18	20	4	37.25	NCLSLT
NBB096_6-50	50	6	6	50716.3	50716.3	0.01%	0.50	0.12	0.63	10.27	20	4	10.90	NCLSLT
NBB0012_6-50	50	6	12	102549.9	102549.9	0.02%	1.37	0.20	1.58	24.00	24	4	25.59	NCLSLT
NBB0112_6-50	50	6	12	101608.7	101608.7	0.03%	1.27	0.14	1.42	21.38	12	2	22.80	NCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0212_6-50	50	6	12	105230.1	105230.1	0.07%	1.82	0.21	2.04	95.88	24	4	97.92	NCLSLT
NBB0312_6-50	50	6	12	102674.0	102674.0	0.05%	1.41	0.21	1.63	28.19	18	3	29.82	NCLSLT
NBB0412_6-50	50	6	12	109864.5	109864.5	0.07%	1.51	0.60	2.12	79.65	30	5	81.77	NCLSLT
NBB0512_6-50	50	6	12	105497.1	105497.1	0.06%	1.41	0.30	1.71	39.99	18	3	41.70	NCLSLT
NBB0612_6-50	50	6	12	102225.1	102225.1	0.11%	2.03	0.18	2.21	46.70	12	2	48.92	NCLSLT
NBB0712_6-50	50	6	12	107660.0	107660.0	0.06%	1.27	0.18	1.46	40.81	18	3	42.27	NCLSLT
NBB0812_6-50	50	6	12	100013.2	100013.2	0.06%	1.67	0.18	1.86	31.11	18	3	32.97	NCLSLT
NBB0912_6-50	50	6	12	102436.3	102436.3	0.04%	1.41	0.25	1.66	37.03	18	3	38.70	NCLSLT
NBB0018_6-50	50	6	18	152987.7	152987.7	0.07%	3.22	0.55	3.78	68.80	16	2	72.59	NCLSLT
NBB0118_6-50	50	6	18	151114.1	151114.1	0.04%	3.17	0.51	3.69	50.08	16	2	53.77	NCLSLT
NBB0218_6-50	50	6	18	154661.0	154661.0	0.08%	3.44	0.49	3.93	167.85	32	4	171.79	NCLSLT
NBB0318_6-50	50	6	18	154354.6	154354.6	0.04%	3.03	0.28	3.32	62.55	24	3	65.88	NCLSLT
NBB0418_6-50	50	6	18	164992.8	164992.8	0.07%	3.15	0.74	3.91	139.90	24	3	143.82	NCLSLT
NBB0518_6-50	50	6	18	155584.9	155584.9	0.10%	3.30	0.61	3.91	113.21	24	3	117.13	NCLSLT
NBB0618_6-50	50	6	18	154594.1	154594.1	0.14%	4.92	0.49	5.42	264.70	40	5	270.12	NCLSLT
NBB0718_6-50	50	6	18	159220.3	159220.3	0.04%	3.42	0.28	3.71	69.34	16	2	73.06	NCLSLT
NBB0818_6-50	50	6	18	151180.5	151180.5	0.05%	2.62	0.38	3.02	68.88	24	3	71.92	NCLSLT
NBB0918_6-50	50	6	18	154285.6	154285.6	0.02%	2.68	0.33	3.02	77.37	24	3	80.40	NCLSLT
AAA006_2-6	6	2	6	14678.8	14678.8	3.69%	0.15	0.02	0.17	0.35	15	3	0.52	TCHSHT
AAA016_2-6	6	2	6	11728.3	11728.3	0.99%	0.14	0.02	0.16	0.40	15	3	0.56	TCHSHT
AAA026_2-6	6	2	6	14956.5	14956.5	0.00%	0.09	0.02	0.11	0.48	20	4	0.60	TCHSHT
AAA036_2-6	6	2	6	4986378788.7	4986378788.7	100.00%	0.11	0.02	0.13	0.14	10	2	0.27	TCHSHT
AAA046_2-6	6	2	6	18301.2	18301.2	5.22%	0.11	0.03	0.15	0.44	10	2	0.59	TCHSHT
AAA056_2-6	6	2	6	17465.7	17465.7	2.76%	0.09	0.02	0.11	0.25	10	2	0.36	TCHSHT
AAA066_2-6	6	2	6	17374.1	17374.1	3.36%	0.12	0.02	0.14	0.49	15	3	0.63	TCHSHT
AAA076_2-6	6	2	6	17454.2	17454.2	1.00%	0.10	0.02	0.12	0.29	15	3	0.41	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%	0.09	0.02	0.12	0.14	10	2	0.26	TCHSHT
AAA096_2-6	6	2	6	13527.3	13527.3	2.79%	0.09	0.02	0.11	0.27	20	4	0.38	TCHSHT
AAA0012_2-6	6	2	12	25131.9	25131.9	2.27%	0.18	0.03	0.21	1.13	24	4	1.34	TCHSHT
AAA0112_2-6	6	2	12	483746325.1	483746325.1	99.99%	0.27	0.03	0.30	1.44	24	4	1.74	TCHSHT
AAA0212_2-6	6	2	12	27826.4	27826.4	1.27%	0.20	0.04	0.24	0.63	24	4	0.88	TCHSHT
AAA0412_2-6	6	2	12	28981.9	28981.9	1.45%	0.30	0.04	0.35	2.66	24	4	3.01	TCHSHT
AAA0512_2-6	6	2	12	32736.3	32736.3	3.24%	0.18	0.04	0.23	2.27	30	5	2.50	TCHSHT
AAA0612_2-6	6	2	12	29513.1	29513.1	2.26%	0.19	0.05	0.24	1.19	24	4	1.43	TCHSHT
AAA0712_2-6	6	2	12	27639.7	27639.7	0.68%	0.26	0.05	0.31	0.41	12	2	0.72	TCHSHT
AAA0812_2-6	6	2	12	22716.8	22716.8	0.98%	0.16	0.03	0.19	0.83	24	4	1.02	TCHSHT
AAA0912_2-6	6	2	12	29127.5	29127.5	4.70%	0.22	0.05	0.27	1.41	24	4	1.68	TCHSHT
AAA0018_2-6	6	2	18	34261.6	34261.6	1.86%	0.46	0.06	0.53	3.97	32	4	4.50	TCHSHT
AAA0118_2-6	6	2	18	34991.7	34991.7	2.30%	0.35	0.06	0.41	4.15	32	4	4.56	TCHSHT
AAA0218_2-6	6	2	18	40354.8	40354.8	1.65%	0.31	0.06	0.38	2.59	40	5	2.97	TCHSHT
AAA0418_2-6	6	2	18	37720.4	37720.4	1.35%	0.48	0.05	0.53	3.58	32	4	4.11	TCHSHT
AAA0518_2-6	6	2	18	42863.4	42863.4	0.31%	0.31	0.09	0.41	3.31	40	5	3.72	TCHSHT
AAA0618_2-6	6	2	18	40218.5	40218.5	1.87%	0.37	0.06	0.44	2.99	32	4	3.44	TCHSHT
AAA0718_2-6	6	2	18	39886.7	39886.7	0.66%	0.41	0.08	0.50	2.78	32	4	3.28	TCHSHT
AAA0818_2-6	6	2	18	32535.4	32535.4	1.58%	0.26	0.04	0.30	1.85	32	4	2.15	TCHSHT
AAA0918_2-6	6	2	18	36505.8	36505.8	0.63%	0.26	0.10	0.36	2.19	24	3	2.55	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%	0.15	0.03	0.18	0.26	10	2	0.44	TCHSHT
AAA016_2-12	12	2	6	25835.3	25835.3	1.24%	0.19	0.02	0.21	0.75	15	3	0.96	TCHSHT
AAA026_2-12	12	2	6	27272.4	27272.4	1.28%	0.20	0.02	0.22	0.32	10	2	0.54	TCHSHT
AAA036_2-12	12	2	6	30375.5	30375.5	1.82%	0.14	0.03	0.17	1.22	20	4	1.40	TCHSHT
AAA046_2-12	12	2	6	26000.3	26000.3	0.30%	0.14	0.03	0.17	1.14	30	6	1.31	TCHSHT
AAA056_2-12	12	2	6	30315.9	30315.9	1.49%	0.19	0.03	0.22	0.86	15	3	1.09	TCHSHT
AAA066_2-12	12	2	6	26557.1	26557.1	1.42%	0.15	0.02	0.17	0.41	10	2	0.58	TCHSHT
AAA076_2-12	12	2	6	26431.8	26431.8	1.26%	0.14	0.03	0.16	0.69	20	4	0.85	TCHSHT
AAA086_2-12	12	2	6	24676.2	24676.2	0.38%	0.14	0.03	0.18	1.62	25	5	1.80	TCHSHT
AAA096_2-12	12	2	6	28321.8	28321.8	0.62%	0.17	0.03	0.20	1.22	20	4	1.42	TCHSHT
AAA0012_2-12	12	2	12	42314.2	42314.2	0.54%	0.27	0.03	0.30	2.39	24	4	2.70	TCHSHT
AAA0112_2-12	12	2	12	42444.7	42444.7	0.47%	0.30	0.09	0.40	2.59	18	3	2.99	TCHSHT
AAA0212_2-12	12	2	12	45176.6	45176.6	0.71%	0.57	0.07	0.63	1.88	18	3	2.51	TCHSHT
AAA0312_2-12	12	2	12	53922.5	53922.5	0.63%	0.31	0.05	0.35	3.90	18	3	4.26	TCHSHT
AAA0412_2-12	12	2	12	45685.1	45685.1	0.26%	0.32	0.09	0.42	1.92	24	4	2.34	TCHSHT
AAA0512_2-12	12	2	12	53813.2	53813.2	1.13%	0.25	0.06	0.31	9.00	54	9	9.31	TCHSHT
AAA0612_2-12	12	2	12	46673.6	46673.6	0.48%	0.32	0.08	0.40	3.33	18	3	3.74	TCHSHT
AAA0712_2-12	12	2	12	49726.1	49726.1	0.40%	0.27	0.04	0.31	1.34	12	2	1.65	TCHSHT
AAA0812_2-12	12	2	12	42645.5	42645.5	1.20%	0.23	0.08	0.32	5.13	30	5	5.44	TCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0912_2-12	12	2	12	52858.6	52858.6	2.02%	0.36	0.06	0.42	6.54	24	4	6.97	TCHSHT
AAA0118_2-12	12	2	18	63461.0	63461.0	0.98%	0.54	0.06	0.61	24.18	56	7	24.79	TCHSHT
AAA0218_2-12	12	2	18	67385.3	67385.3	1.98%	0.50	0.07	0.57	38.67	40	5	39.24	TCHSHT
AAA0318_2-12	12	2	18	76905.4	76905.4	1.34%	0.33	0.09	0.42	15.93	40	5	16.36	TCHSHT
AAA0418_2-12	12	2	18	68723.6	68723.6	1.12%	0.44	0.12	0.57	15.21	40	5	15.78	TCHSHT
AAA0518_2-12	12	2	18	75095.6	75095.6	0.93%	0.40	0.10	0.50	19.26	40	5	19.76	TCHSHT
AAA0618_2-12	12	2	18	67982.0	67982.0	1.30%	0.48	0.07	0.56	25.02	40	5	25.58	TCHSHT
AAA0718_2-12	12	2	18	68298.4	68298.4	0.04%	0.30	0.08	0.38	2.76	32	4	3.14	TCHSHT
AAA0818_2-12	12	2	18	66377.2	66377.2	1.06%	0.38	0.09	0.47	23.88	32	4	24.36	TCHSHT
AAA0918_2-12	12	2	18	74583.4	74583.4	1.09%	0.67	0.08	0.76	41.92	48	6	42.68	TCHSHT
AAA006_2-25	25	2	6	49579.1	49579.1	0.69%	0.26	0.04	0.30	1.63	15	3	1.93	TCHSHT
AAA016_2-25	25	2	6	50428.5	50428.5	0.95%	0.25	0.03	0.29	0.88	10	2	1.17	TCHSHT
AAA026_2-25	25	2	6	53905.9	53905.9	0.94%	0.28	0.04	0.32	3.91	15	3	4.24	TCHSHT
AAA036_2-25	25	2	6	55146.1	55146.1	0.51%	0.23	0.03	0.26	1.93	20	4	2.20	TCHSHT
AAA046_2-25	25	2	6	56247.0	56247.0	0.11%	0.25	0.02	0.27	0.78	10	2	1.06	TCHSHT
AAA056_2-25	25	2	6	59579.9	59579.9	1.32%	0.29	0.06	0.35	3.32	20	4	3.67	TCHSHT
AAA066_2-25	25	2	6	47786.3	47786.3	1.01%	0.24	0.03	0.27	0.52	10	2	0.79	TCHSHT
AAA076_2-25	25	2	6	53541.7	53541.7	0.44%	0.28	0.05	0.33	1.27	10	2	1.59	TCHSHT
AAA086_2-25	25	2	6	56941.6	56941.6	0.55%	0.26	0.05	0.31	1.55	10	2	1.86	TCHSHT
AAA096_2-25	25	2	6	62882.4	62882.4	0.41%	0.25	0.05	0.30	1.73	15	3	2.04	TCHSHT
AAA0012_2-25	25	2	12	90865.7	90865.7	0.57%	0.47	0.06	0.53	15.44	24	4	15.98	TCHSHT
AAA0112_2-25	25	2	12	96306.6	96306.6	0.51%	0.38	0.10	0.48	17.43	30	5	17.91	TCHSHT
AAA0212_2-25	25	2	12	93588.2	93588.2	1.02%	0.53	0.13	0.66	26.25	24	4	26.92	TCHSHT
AAA0312_2-25	25	2	12	96761.5	96761.5	0.49%	0.47	0.09	0.56	30.56	30	5	31.11	TCHSHT
AAA0412_2-25	25	2	12	96684.9	96684.9	1.00%	0.53	0.06	0.59	14.07	24	4	14.68	TCHSHT
AAA0512_2-25	25	2	12	109220.3	109220.3	0.93%	0.53	0.08	0.61	22.24	24	4	22.86	TCHSHT
AAA0612_2-25	25	2	12	92572.9	92572.9	0.60%	0.43	0.08	0.52	8.79	24	4	9.31	TCHSHT
AAA0712_2-25	25	2	12	97606.4	97606.4	0.74%	0.40	0.11	0.51	25.06	30	5	25.58	TCHSHT
AAA0812_2-25	25	2	12	101243.3	101243.3	0.76%	0.53	0.08	0.61	24.32	30	5	24.93	TCHSHT
AAA0912_2-25	25	2	12	106456.4	106456.4	0.82%	0.57	0.07	0.65	20.23	30	5	20.88	TCHSHT
AAA0018_2-25	25	2	18	130894.9	130894.9	0.37%	0.65	0.12	0.78	35.97	40	5	36.75	TCHSHT
AAA0118_2-25	25	2	18	134850.7	134850.7	0.59%	0.75	0.14	0.90	59.19	40	5	60.09	TCHSHT
AAA0218_2-25	25	2	18	132654.6	132654.6	0.61%	0.88	0.19	1.07	65.98	48	6	67.05	TCHSHT
AAA0318_2-25	25	2	18	144835.4	144835.4	0.33%	0.68	0.10	0.78	19.53	24	3	20.33	TCHSHT
AAA0418_2-25	25	2	18	139421.9	139421.9	0.56%	0.96	0.09	1.05	72.92	48	6	73.97	TCHSHT
AAA0518_2-25	25	2	18	151980.2	151980.2	0.64%	0.87	0.16	1.04	76.11	40	5	77.15	TCHSHT
AAA0618_2-25	25	2	18	128971.7	128971.7	0.00%	0.67	0.08	0.75	24.20	40	5	24.95	TCHSHT
AAA0718_2-25	25	2	18	144253.5	144253.5	0.83%	0.83	0.13	0.97	84.92	32	4	85.90	TCHSHT
AAA0818_2-25	25	2	18	141599.3	141599.3	0.49%	0.79	0.14	0.93	105.17	56	7	106.10	TCHSHT
AAA0018_2-25	25	2	18	153501.0	153501.0	1.22%	1.01	0.10	1.12	90.46	32	4	91.58	TCHSHT
AAA006_2-50	50	2	6	97169.9	97169.9	0.10%	0.41	0.09	0.50	2.02	10	2	2.52	TCHSHT
AAA016_2-50	50	2	6	100449.8	100449.8	0.14%	0.41	0.05	0.46	1.66	15	3	2.12	TCHSHT
AAA026_2-50	50	2	6	98867.1	98867.1	0.28%	0.44	0.06	0.50	6.41	15	3	6.92	TCHSHT
AAA036_2-50	50	2	6	106336.6	106336.6	0.21%	0.43	0.07	0.49	10.24	20	4	10.74	TCHSHT
AAA046_2-50	50	2	6	113026.7	113026.7	0.39%	0.45	0.06	0.51	15.05	15	3	15.56	TCHSHT
AAA056_2-50	50	2	6	110329.6	110329.6	0.18%	0.49	0.06	0.55	15.80	15	3	16.35	TCHSHT
AAA066_2-50	50	2	6	99255.0	99255.0	0.27%	0.49	0.06	0.56	2.76	10	2	3.32	TCHSHT
AAA076_2-50	50	2	6	106540.2	106540.2	0.28%	0.51	0.07	0.59	19.02	15	3	19.60	TCHSHT
AAA086_2-50	50	2	6	103199.6	103199.6	0.31%	0.48	0.07	0.56	9.09	20	4	9.65	TCHSHT
AAA096_2-50	50	2	6	107963.7	107963.7	0.08%	0.42	0.06	0.48	2.14	10	2	2.63	TCHSHT
AAA0012_2-50	50	2	12	180221.2	180221.2	0.21%	0.67	0.15	0.83	27.37	30	5	28.20	TCHSHT
AAA0112_2-50	50	2	12	187059.0	187059.0	0.24%	0.77	0.33	1.10	22.24	24	4	23.35	TCHSHT
AAA0212_2-50	50	2	12	181245.8	181245.8	0.22%	0.73	0.19	0.92	25.19	24	4	26.11	TCHSHT
AAA0312_2-50	50	2	12	192858.9	192858.9	0.20%	0.71	0.12	0.83	30.01	24	4	30.85	TCHSHT
AAA0412_2-50	50	2	12	201261.5	201261.5	0.41%	1.01	0.11	1.12	59.78	24	4	60.90	TCHSHT
AAA0512_2-50	50	2	12	198020.3	198020.3	0.18%	0.83	0.11	0.94	28.23	24	4	29.17	TCHSHT
AAA0612_2-50	50	2	12	177325.8	177325.8	0.08%	1.01	0.15	1.16	8.27	18	3	9.43	TCHSHT
AAA0712_2-50	50	2	12	190944.6	190944.6	0.46%	1.03	0.15	1.18	89.77	30	5	90.95	TCHSHT
AAA0812_2-50	50	2	12	183302.8	183302.8	0.16%	0.77	0.13	0.90	21.35	18	3	22.25	TCHSHT
AAA0912_2-50	50	2	12	195701.4	195701.4	0.41%	0.91	0.12	1.03	80.32	30	5	81.35	TCHSHT
AAA0018_2-50	50	2	18	261883.9	261883.9	0.03%	1.16	0.18	1.34	35.31	40	5	36.67	TCHSHT
AAA0118_2-50	50	2	18	270334.5	270334.5	0.13%	1.07	0.20	1.27	55.32	32	4	56.60	TCHSHT
AAA0218_2-50	50	2	18	261289.1	261289.1	0.25%	1.15	0.21	1.36	70.87	32	4	72.23	TCHSHT
AAA0318_2-50	50	2	18	282422.6	282422.6	0.15%	1.24	0.29	1.53	63.31	32	4	64.84	TCHSHT
AAA0418_2-50	50	2	18	292757.2	292757.2	0.36%	1.65	0.33	1.99	180.23	40	5	182.23	TCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0518_2-50	50	2	18	287877.9	287877.9	0.20%	1.09	0.14	1.24	102.58	40	5	103.82	TCHSHT
AAA0618_2-50	50	2	18	259556.0	259556.0	0.15%	1.44	0.15	1.60	82.46	40	5	84.07	TCHSHT
AAA0718_2-50	50	2	18	274259.1	274259.1	0.25%	1.21	0.23	1.45	59.64	24	3	61.09	TCHSHT
AAA0818_2-50	50	2	18	265891.4	265891.4	0.15%	1.28	0.13	1.41	68.84	32	4	70.25	TCHSHT
AAA0918_2-50	50	2	18	284115.3	284115.3	0.23%	1.63	0.23	1.86	157.30	40	5	159.17	TCHSHT
AAA006_4-6	6	4	6	9863.8	9863.8	2.28%	0.12	0.05	0.17	0.36	10	2	0.53	TCHSHT
AAA016_4-6	6	4	6	12516.4	12516.4	2.05%	0.16	0.06	0.22	1.34	20	4	1.56	TCHSHT
AAA026_4-6	6	4	6	12294.8	12294.8	1.84%	0.16	0.04	0.20	0.40	15	3	0.61	TCHSHT
AAA036_4-6	6	4	6	13094.9	13094.9	3.66%	0.12	0.03	0.15	0.31	10	2	0.47	TCHSHT
AAA046_4-6	6	4	6	11050.2	11050.2	3.26%	0.15	0.05	0.20	0.68	20	4	0.88	TCHSHT
AAA056_4-6	6	4	6	16144.0	16144.0	4.69%	0.13	0.06	0.19	0.30	10	2	0.49	TCHSHT
AAA066_4-6	6	4	6	12598.7	12598.7	2.47%	0.17	0.04	0.21	0.47	15	3	0.68	TCHSHT
AAA076_4-6	6	4	6	13765.9	13765.9	0.00%	0.10	0.05	0.15	0.23	15	3	0.38	TCHSHT
AAA086_4-6	6	4	6	10252.7	10252.7	3.06%	0.12	0.05	0.17	0.24	15	3	0.42	TCHSHT
AAA096_4-6	6	4	6	14770.1	14770.1	0.00%	0.13	0.04	0.17	0.19	10	2	0.36	TCHSHT
AAA0012_4-6	6	4	12	17824.5	17824.5	0.00%	0.26	0.09	0.35	1.40	30	5	1.75	TCHSHT
AAA0112_4-6	6	4	12	25843.3	25843.3	2.53%	0.39	0.09	0.48	5.00	24	4	5.48	TCHSHT
AAA0212_4-6	6	4	12	23264.0	23264.0	0.92%	0.37	0.08	0.46	5.85	36	6	6.30	TCHSHT
AAA0312_4-6	6	4	12	25570.3	25570.3	0.06%	0.24	0.08	0.32	0.68	18	3	1.00	TCHSHT
AAA0412_4-6	6	4	12	24071.2	24071.2	2.51%	0.25	0.08	0.33	1.86	18	3	2.19	TCHSHT
AAA0512_4-6	6	4	12	31123.3	31123.3	2.79%	0.26	0.09	0.36	1.49	18	3	1.85	TCHSHT
AAA0612_4-6	6	4	12	21834.0	21834.0	1.23%	0.26	0.07	0.34	0.77	18	3	1.11	TCHSHT
AAA0712_4-6	6	4	12	24523.7	24523.7	0.29%	0.21	0.10	0.31	1.58	24	4	1.89	TCHSHT
AAA0812_4-6	6	4	12	21130.5	21130.5	0.00%	0.23	0.08	0.31	2.16	24	4	2.47	TCHSHT
AAA0912_4-6	6	4	12	26372.4	26372.4	1.43%	0.30	0.09	0.39	0.85	24	4	1.24	TCHSHT
AAA0018_4-6	6	4	18	27419.8	27419.8	0.16%	0.52	0.15	0.68	4.06	40	5	4.74	TCHSHT
AAA0118_4-6	6	4	18	33350.9	33350.9	0.09%	0.66	0.18	0.84	5.25	32	4	6.09	TCHSHT
AAA0218_4-6	6	4	18	33650.5	33650.5	1.41%	0.54	0.17	0.72	3.60	24	3	4.32	TCHSHT
AAA0318_4-6	6	4	18	39199.5	39199.5	0.69%	0.93	0.11	1.04	5.93	40	5	6.97	TCHSHT
AAA0418_4-6	6	4	18	35431.6	35431.6	1.86%	0.64	0.13	0.77	8.74	32	4	9.52	TCHSHT
AAA0518_4-6	6	4	18	43016.3	43016.3	0.51%	0.47	0.17	0.64	3.51	40	5	4.15	TCHSHT
AAA0618_4-6	6	4	18	33334.2	33334.2	0.00%	0.53	0.21	0.74	1.76	24	3	2.50	TCHSHT
AAA0718_4-6	6	4	18	37328.2	37328.2	1.08%	0.37	0.14	0.51	4.85	40	5	5.36	TCHSHT
AAA0818_4-6	6	4	18	28213.7	28213.7	0.99%	0.41	0.13	0.54	1.70	24	3	2.24	TCHSHT
AAA0918_4-6	6	4	18	38459.0	38459.0	0.55%	0.56	0.14	0.71	4.53	40	5	5.24	TCHSHT
AAA006_4-12	12	4	6	20488.7	20488.7	0.29%	0.18	0.04	0.22	1.32	20	4	1.54	TCHSHT
AAA016_4-12	12	4	6	23762.3	23762.3	0.01%	0.29	0.07	0.35	6.14	20	4	6.49	TCHSHT
AAA026_4-12	12	4	6	19095.7	19095.7	1.45%	0.18	0.08	0.26	0.86	15	3	1.12	TCHSHT
AAA036_4-12	12	4	6	20834.3	20834.3	0.54%	0.22	0.06	0.28	2.62	25	5	2.90	TCHSHT
AAA046_4-12	12	4	6	23275.8	23275.8	0.95%	0.22	0.05	0.27	0.55	10	2	0.82	TCHSHT
AAA056_4-12	12	4	6	24486.3	24486.3	1.30%	0.24	0.08	0.32	1.30	15	3	1.62	TCHSHT
AAA066_4-12	12	4	6	21569.3	21569.3	1.76%	0.22	0.06	0.28	0.68	15	3	0.96	TCHSHT
AAA076_4-12	12	4	6	21684.3	21684.3	1.09%	0.23	0.09	0.32	3.03	20	4	3.36	TCHSHT
AAA086_4-12	12	4	6	22927.2	22927.2	1.09%	0.16	0.06	0.22	1.30	15	3	1.52	TCHSHT
AAA096_4-12	12	4	6	22406.1	22406.1	1.25%	0.21	0.05	0.26	1.45	15	3	1.71	TCHSHT
AAA0012_4-12	12	4	12	37293.0	37293.0	1.91%	0.40	0.07	0.47	13.01	24	4	13.48	TCHSHT
AAA0112_4-12	12	4	12	41827.0	41827.0	1.07%	0.60	0.13	0.73	39.10	42	7	39.83	TCHSHT
AAA0212_4-12	12	4	12	37605.1	37605.1	0.58%	0.35	0.13	0.48	4.34	24	4	4.82	TCHSHT
AAA0312_4-12	12	4	12	41231.6	41231.6	1.19%	0.38	0.15	0.53	9.41	30	5	9.94	TCHSHT
AAA0412_4-12	12	4	12	43112.8	43112.8	1.39%	0.43	0.12	0.55	7.33	30	5	7.89	TCHSHT
AAA0512_4-12	12	4	12	46699.6	46699.6	2.17%	0.44	0.10	0.54	18.56	24	4	19.10	TCHSHT
AAA0612_4-12	12	4	12	40451.6	40451.6	1.08%	0.34	0.08	0.42	3.85	12	2	4.28	TCHSHT
AAA0712_4-12	12	4	12	43265.3	43265.3	1.45%	0.50	0.15	0.65	35.42	36	6	36.07	TCHSHT
AAA0812_4-12	12	4	12	41907.1	41907.1	0.20%	0.30	0.06	0.35	2.80	18	3	3.15	TCHSHT
AAA0912_4-12	12	4	12	45450.0	45450.0	1.74%	0.42	0.17	0.59	24.40	30	5	25.00	TCHSHT
AAA0018_4-12	12	4	18	54749.8	54749.8	0.59%	0.56	0.22	0.78	19.87	40	5	20.65	TCHSHT
AAA0118_4-12	12	4	18	61262.0	61262.0	1.35%	0.90	0.51	1.42	43.16	40	5	44.58	TCHSHT
AAA0218_4-12	12	4	18	54212.2	54212.2	0.75%	0.40	0.21	0.61	8.96	32	4	9.57	TCHSHT
AAA0318_4-12	12	4	18	62831.1	62831.1	1.51%	0.92	0.15	1.06	35.99	48	6	37.06	TCHSHT
AAA0418_4-12	12	4	18	63590.6	63590.6	1.44%	0.71	0.21	0.93	42.53	40	5	43.47	TCHSHT
AAA0518_4-12	12	4	18	67437.5	67437.5	1.71%	0.61	0.22	0.83	28.30	32	4	29.13	TCHSHT
AAA0618_4-12	12	4	18	59502.6	59502.6	0.32%	0.66	0.16	0.82	10.96	40	5	11.78	TCHSHT
AAA0718_4-12	12	4	18	66139.8	66139.8	1.21%	0.79	0.31	1.10	91.68	56	7	92.79	TCHSHT
AAA0818_4-12	12	4	18	63949.1	63949.1	0.80%	0.47	0.17	0.65	19.44	32	4	20.09	TCHSHT
AAA0918_4-12	12	4	18	64337.5	64337.5	1.49%	0.69	0.26	0.95	18.17	48	6	19.12	TCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA006_4-25	25	4	6	37911.5	37911.5	0.51%	0.35	0.15	0.50	7.62	15	3	8.12	TCHSHT
AAA016_4-25	25	4	6	46413.9	46413.9	0.59%	0.44	0.10	0.55	3.86	15	3	4.41	TCHSHT
AAA026_4-25	25	4	6	44268.7	44268.7	1.74%	0.58	0.08	0.66	18.75	15	3	19.42	TCHSHT
AAA036_4-25	25	4	6	43464.7	43464.7	0.66%	0.34	0.10	0.44	12.62	20	4	13.07	TCHSHT
AAA046_4-25	25	4	6	44887.8	44887.8	1.51%	0.40	0.14	0.54	19.49	15	3	20.04	TCHSHT
AAA056_4-25	25	4	6	48261.0	48261.0	0.56%	0.37	0.06	0.43	7.87	15	3	8.31	TCHSHT
AAA066_4-25	25	4	6	38986.4	38986.4	1.71%	0.25	0.06	0.30	3.25	15	3	3.56	TCHSHT
AAA076_4-25	25	4	6	43882.2	43882.2	0.47%	0.37	0.09	0.46	14.40	15	3	14.86	TCHSHT
AAA086_4-25	25	4	6	40617.7	40617.7	0.44%	0.39	0.10	0.49	9.01	10	2	9.51	TCHSHT
AAA096_4-25	25	4	6	46431.3	46431.3	0.27%	0.35	0.11	0.47	8.02	15	3	8.48	TCHSHT
AAA0012_4-25	25	4	12	75608.0	75608.0	0.54%	0.64	0.18	0.82	16.02	18	3	16.85	TCHSHT
AAA0112_4-25	25	4	12	84282.5	84282.5	1.10%	0.84	0.16	1.00	63.11	24	4	64.11	TCHSHT
AAA0212_4-25	25	4	12	80078.2	80078.2	1.26%	0.78	0.22	1.00	84.43	24	4	85.44	TCHSHT
AAA0312_4-25	25	4	12	84369.3	84369.3	0.96%	0.69	0.39	1.09	48.52	24	4	49.61	TCHSHT
AAA0412_4-25	25	4	12	85127.8	85127.8	1.22%	0.78	0.27	1.05	53.12	30	5	54.17	TCHSHT
AAA0512_4-25	25	4	12	87978.3	87978.3	0.80%	0.53	0.19	0.72	36.45	24	4	37.17	TCHSHT
AAA0612_4-25	25	4	12	74541.5	74541.5	0.46%	0.56	0.17	0.73	18.23	36	6	18.96	TCHSHT
AAA0712_4-25	25	4	12	84441.4	84441.4	0.65%	0.73	0.25	0.98	46.18	30	5	47.16	TCHSHT
AAA0812_4-25	25	4	12	79444.0	79444.0	0.90%	0.84	0.14	0.99	42.97	24	4	43.96	TCHSHT
AAA0912_4-25	25	4	12	85113.5	85113.5	0.26%	0.59	0.37	0.97	16.54	24	4	17.51	TCHSHT
AAA0018_4-25	25	4	18	109879.8	109879.8	0.65%	1.73	0.30	2.03	82.84	40	5	84.88	TCHSHT
AAA0118_4-25	25	4	18	122593.0	122593.0	1.19%	1.39	0.37	1.77	93.60	32	4	95.38	TCHSHT
AAA0218_4-25	25	4	18	118638.0	118638.0	1.26%	1.33	0.82	2.15	126.21	32	4	128.36	TCHSHT
AAA0318_4-25	25	4	18	122887.5	122887.5	0.97%	1.32	0.37	1.69	90.36	40	5	92.05	TCHSHT
AAA0418_4-25	25	4	18	124869.3	124869.3	0.64%	1.26	0.34	1.60	89.04	48	6	90.64	TCHSHT
AAA0518_4-25	25	4	18	127116.5	127116.5	0.74%	1.45	0.37	1.82	66.78	32	4	68.60	TCHSHT
AAA0618_4-25	25	4	18	111070.8	111070.8	0.24%	0.94	0.34	1.29	69.84	48	6	71.13	TCHSHT
AAA0718_4-25	25	4	18	122972.7	122972.7	0.39%	1.31	0.36	1.67	53.72	40	5	55.39	TCHSHT
AAA0818_4-25	25	4	18	113187.1	113187.1	0.49%	1.35	0.26	1.61	82.60	40	5	84.22	TCHSHT
AAA0918_4-25	25	4	18	125011.9	125011.9	0.29%	0.94	0.39	1.33	39.91	32	4	41.25	TCHSHT
AAA006_4-50	50	4	6	81839.6	81839.6	0.19%	0.67	0.13	0.80	27.96	25	5	28.76	TCHSHT
AAA016_4-50	50	4	6	85024.5	85024.5	0.20%	0.72	0.19	0.92	16.22	20	4	17.14	TCHSHT
AAA026_4-50	50	4	6	87325.9	87325.9	0.32%	0.67	0.18	0.85	38.65	15	3	39.51	TCHSHT
AAA036_4-50	50	4	6	88273.8	88273.8	0.37%	0.61	0.32	0.93	19.36	20	4	20.29	TCHSHT
AAA046_4-50	50	4	6	94634.1	94634.1	0.35%	0.67	0.13	0.81	26.90	20	4	27.71	TCHSHT
AAA056_4-50	50	4	6	89653.5	89653.5	0.25%	0.69	0.13	0.82	17.76	15	3	18.58	TCHSHT
AAA066_4-50	50	4	6	80097.4	80097.4	0.26%	0.51	0.16	0.67	13.35	20	4	14.02	TCHSHT
AAA076_4-50	50	4	6	83905.6	83905.6	0.35%	0.67	0.13	0.81	20.88	20	4	21.69	TCHSHT
AAA086_4-50	50	4	6	83998.0	83998.0	0.25%	0.64	0.20	0.84	32.21	20	4	33.05	TCHSHT
AAA096_4-50	50	4	6	94895.2	94895.2	0.21%	0.62	0.14	0.76	26.58	15	3	27.34	TCHSHT
AAA0012_4-50	50	4	12	160317.2	160317.2	0.36%	1.32	0.28	1.61	69.36	30	5	70.97	TCHSHT
AAA0112_4-50	50	4	12	157914.7	157914.7	0.32%	1.04	0.37	1.42	43.01	24	4	44.43	TCHSHT
AAA0212_4-50	50	4	12	159642.9	159642.9	0.57%	1.33	0.34	1.68	48.75	24	4	50.44	TCHSHT
AAA0312_4-50	50	4	12	167051.2	167051.2	0.44%	1.04	0.42	1.47	89.32	30	5	90.80	TCHSHT
AAA0412_4-50	50	4	12	171751.2	171751.2	0.45%	1.27	0.35	1.62	65.76	24	4	67.39	TCHSHT
AAA0512_4-50	50	4	12	165679.2	165679.2	0.43%	1.32	0.37	1.70	62.02	30	5	63.72	TCHSHT
AAA0612_4-50	50	4	12	150617.9	150617.9	0.14%	0.98	0.22	1.21	40.30	30	5	41.52	TCHSHT
AAA0712_4-50	50	4	12	162915.1	162915.1	0.54%	1.34	0.61	1.96	125.68	42	7	127.65	TCHSHT
AAA0812_4-50	50	4	12	157738.0	157738.0	0.36%	1.20	0.40	1.61	60.66	30	5	62.27	TCHSHT
AAA0912_4-50	50	4	12	172939.8	172939.8	0.22%	0.95	0.14	1.10	59.26	24	4	60.36	TCHSHT
AAA0018_4-50	50	4	18	228659.5	228659.5	0.20%	2.16	0.52	2.69	90.87	48	6	93.57	TCHSHT
AAA0118_4-50	50	4	18	233043.7	233043.7	0.31%	1.92	0.96	2.88	116.18	48	6	119.06	TCHSHT
AAA0218_4-50	50	4	18	238994.9	238994.9	0.42%	2.10	0.55	2.66	144.21	40	5	146.87	TCHSHT
AAA0318_4-50	50	4	18	244064.7	244064.7	0.36%	1.82	0.69	2.52	87.00	32	4	89.53	TCHSHT
AAA0418_4-50	50	4	18	254097.4	254097.4	0.40%	2.29	1.02	3.31	181.32	48	6	184.64	TCHSHT
AAA0518_4-50	50	4	18	244985.5	244985.5	0.39%	1.69	0.65	2.35	100.43	40	5	102.79	TCHSHT
AAA0618_4-50	50	4	18	224391.9	224391.9	0.14%	1.89	0.27	2.18	51.75	40	5	53.94	TCHSHT
AAA0718_4-50	50	4	18	241699.2	241699.2	0.41%	1.89	0.55	2.45	167.46	40	5	169.91	TCHSHT
AAA0818_4-50	50	4	18	228258.8	228258.8	0.21%	1.81	0.48	2.30	86.33	40	5	88.63	TCHSHT
AAA0918_4-50	50	4	18	252144.9	252144.9	0.21%	1.47	0.40	1.88	85.06	40	5	86.94	TCHSHT
AAA006_6-6	6	6	6	9908.8	9908.8	3.09%	0.15	0.05	0.20	0.90	20	4	1.10	TCHSHT
AAA016_6-6	6	6	6	13447.9	13447.9	2.41%	0.23	0.16	0.39	1.39	15	3	1.77	TCHSHT
AAA026_6-6	6	6	6	12213.0	12213.0	0.00%	0.18	0.13	0.32	0.39	15	3	0.71	TCHSHT
AAA036_6-6	6	6	6	14200.9	14200.9	2.03%	0.17	0.07	0.24	0.61	20	4	0.85	TCHSHT
AAA046_6-6	6	6	6	14312.3	14312.3	1.80%	0.19	0.08	0.27	0.51	15	3	0.78	TCHSHT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA056_6-6	6	6	6	16610.3	16610.3	1.40%	0.17	0.06	0.24	0.69	15	3	0.93	TCHSHT
AAA066_6-6	6	6	6	11782.4	11782.4	1.72%	0.12	0.04	0.16	0.74	15	3	0.90	TCHSHT
AAA076_6-6	6	6	6	15493.1	15493.1	0.93%	0.17	0.08	0.25	0.57	15	3	0.82	TCHSHT
AAA086_6-6	6	6	6	14880.1	14880.1	1.98%	0.17	0.16	0.33	0.50	10	2	0.83	TCHSHT
AAA096_6-6	6	6	6	16396.4	16396.4	2.90%	0.18	0.06	0.25	0.60	15	3	0.85	TCHSHT
AAA0012_6-6	6	6	12	20265.5	20265.5	2.00%	0.45	0.15	0.60	2.04	18	3	2.64	TCHSHT
AAA0112_6-6	6	6	12	24428.0	24428.0	0.81%	0.46	0.54	1.00	1.86	18	3	2.87	TCHSHT
AAA0212_6-6	6	6	12	24099.4	24099.4	0.08%	0.41	0.22	0.63	1.29	18	3	1.92	TCHSHT
AAA0312_6-6	6	6	12	27647.8	27647.8	1.51%	0.67	0.21	0.88	1.91	24	4	2.79	TCHSHT
AAA0412_6-6	6	6	12	26916.2	26916.2	0.14%	0.52	0.25	0.78	2.00	30	5	2.78	TCHSHT
AAA0512_6-6	6	6	12	28962.7	28962.7	1.35%	0.33	0.14	0.47	2.67	24	4	3.14	TCHSHT
AAA0612_6-6	6	6	12	22973.4	22973.4	0.56%	0.43	0.11	0.54	1.68	24	4	2.22	TCHSHT
AAA0712_6-6	6	6	12	29122.4	29122.4	1.41%	0.37	0.19	0.56	2.31	18	3	2.87	TCHSHT
AAA0812_6-6	6	6	12	27278.0	27278.0	2.53%	0.47	0.25	0.72	3.40	30	5	4.12	TCHSHT
AAA0912_6-6	6	6	12	30544.9	30544.9	1.64%	0.45	0.19	0.65	1.96	24	4	2.61	TCHSHT
AAA0018_6-6	6	6	18	29270.1	29270.1	0.69%	0.95	0.21	1.17	6.94	32	4	8.11	TCHSHT
AAA0218_6-6	6	6	18	32780.1	32780.1	0.38%	0.86	0.34	1.20	2.81	24	3	4.01	TCHSHT
AAA0318_6-6	6	6	18	38483.8	38483.8	1.05%	0.84	0.44	1.28	3.27	24	3	4.55	TCHSHT
AAA0418_6-6	6	6	18	39196.5	39196.5	0.19%	1.51	0.71	2.21	7.48	40	5	9.69	TCHSHT
AAA0518_6-6	6	6	18	44152.3	44152.3	0.98%	0.87	0.29	1.16	15.32	40	5	16.49	TCHSHT
AAA0618_6-6	6	6	18	33657.5	33657.5	0.18%	0.60	0.25	0.85	5.55	32	4	6.40	TCHSHT
AAA0718_6-6	6	6	18	42215.6	42215.6	0.67%	0.78	0.26	1.04	6.10	40	5	7.14	TCHSHT
AAA0818_6-6	6	6	18	43199.3	43199.3	1.82%	0.99	0.51	1.50	8.65	32	4	10.16	TCHSHT
AAA0918_6-6	6	6	18	46408.8	46408.8	1.11%	1.00	0.47	1.47	14.38	32	4	15.85	TCHSHT
AAA006_6-12	12	6	6	20979.6	20979.6	1.92%	0.26	0.09	0.35	1.57	15	3	1.93	TCHSHT
AAA016_6-12	12	6	6	20892.8	20892.8	0.21%	0.30	0.16	0.46	3.99	20	4	4.45	TCHSHT
AAA026_6-12	12	6	6	19945.0	19945.0	1.95%	0.27	0.08	0.35	3.75	25	5	4.11	TCHSHT
AAA036_6-12	12	6	6	20608.1	20608.1	0.33%	0.25	0.07	0.32	1.24	15	3	1.57	TCHSHT
AAA046_6-12	12	6	6	19060.4	19060.4	1.25%	0.30	0.19	0.48	0.51	15	3	1.00	TCHSHT
AAA056_6-12	12	6	6	20393.1	20393.1	0.89%	0.23	0.07	0.30	1.13	20	4	1.43	TCHSHT
AAA066_6-12	12	6	6	18695.7	18695.7	1.95%	0.24	0.07	0.32	2.15	20	4	2.47	TCHSHT
AAA076_6-12	12	6	6	24176.8	24176.8	0.85%	0.31	0.08	0.39	7.00	20	4	7.39	TCHSHT
AAA086_6-12	12	6	6	21468.9	21468.9	2.46%	0.32	0.11	0.43	3.65	25	5	4.08	TCHSHT
AAA096_6-12	12	6	6	24232.4	24232.4	1.04%	0.28	0.19	0.47	1.58	20	4	2.05	TCHSHT
AAA0012_6-12	12	6	12	38320.3	38320.3	1.08%	0.59	0.19	0.79	5.83	24	4	6.62	TCHSHT
AAA0112_6-12	12	6	12	40274.7	40274.7	0.44%	0.81	0.34	1.16	2.78	18	3	3.94	TCHSHT
AAA0212_6-12	12	6	12	38373.8	38373.8	1.13%	0.68	0.33	1.01	17.62	24	4	18.63	TCHSHT
AAA0312_6-12	12	6	12	40716.7	40716.7	0.38%	0.55	0.54	1.09	8.20	36	6	9.30	TCHSHT
AAA0412_6-12	12	6	12	36613.5	36613.5	0.80%	0.56	0.26	0.82	12.10	30	5	12.93	TCHSHT
AAA0512_6-12	12	6	12	42231.9	42231.9	0.76%	0.69	0.22	0.92	17.07	30	5	17.99	TCHSHT
AAA0612_6-12	12	6	12	35254.5	35254.5	1.27%	0.47	0.18	0.65	3.71	24	4	4.35	TCHSHT
AAA0712_6-12	12	6	12	48131.7	48131.7	2.39%	0.68	0.37	1.05	50.70	30	5	51.76	TCHSHT
AAA0812_6-12	12	6	12	39373.0	39373.0	0.82%	0.64	0.36	1.00	6.62	24	4	7.62	TCHSHT
AAA0912_6-12	12	6	12	44423.2	44423.2	0.90%	0.81	0.36	1.17	5.38	30	5	6.56	TCHSHT
AAA0018_6-12	12	6	18	57192.8	57192.8	1.03%	1.08	0.58	1.66	23.80	40	5	25.47	TCHSHT
AAA0118_6-12	12	6	18	62392.7	62392.7	0.97%	1.24	0.55	1.79	20.12	32	4	21.92	TCHSHT
AAA0218_6-12	12	6	18	56160.1	56160.1	1.07%	1.10	0.96	2.07	20.65	40	5	22.72	TCHSHT
AAA0318_6-12	12	6	18	58499.3	58499.3	1.33%	0.93	0.98	1.91	39.48	40	5	41.39	TCHSHT
AAA0418_6-12	12	6	18	53065.8	53065.8	0.42%	1.14	0.60	1.75	13.48	24	3	15.23	TCHSHT
AAA0518_6-12	12	6	18	63253.4	63253.4	1.02%	0.89	0.37	1.26	18.96	48	6	20.23	TCHSHT
AAA0618_6-12	12	6	18	55102.7	55102.7	1.15%	0.99	0.30	1.29	13.54	32	4	14.83	TCHSHT
AAA0718_6-12	12	6	18	69014.8	69014.8	1.27%	1.39	0.83	2.22	59.95	40	5	62.17	TCHSHT
AAA0818_6-12	12	6	18	58774.1	58774.1	2.02%	1.33	0.64	1.97	61.71	48	6	63.68	TCHSHT
AAA0918_6-12	12	6	18	65990.9	65990.9	0.83%	1.05	0.88	1.94	22.18	40	5	24.11	TCHSHT
AAA006_6-25	25	6	6	40550.4	40550.4	1.95%	0.47	0.17	0.65	23.04	20	4	23.69	TCHSHT
AAA016_6-25	25	6	6	40157.2	40157.2	0.35%	0.45	0.17	0.62	13.63	20	4	14.25	TCHSHT
AAA026_6-25	25	6	6	42133.3	42133.3	0.68%	0.53	0.48	1.01	9.74	25	5	10.75	TCHSHT
AAA036_6-25	25	6	6	41028.2	41028.2	0.02%	0.56	0.28	0.85	3.77	15	3	4.61	TCHSHT
AAA046_6-25	25	6	6	43693.0	43693.0	1.34%	0.72	0.27	0.99	24.44	20	4	25.44	TCHSHT
AAA056_6-25	25	6	6	40705.5	40705.5	0.56%	0.41	0.10	0.52	17.77	20	4	18.29	TCHSHT
AAA066_6-25	25	6	6	39468.6	39468.6	0.58%	0.44	0.28	0.72	45.26	30	6	45.98	TCHSHT
AAA076_6-25	25	6	6	43462.7	43462.7	1.23%	0.44	0.15	0.59	17.18	25	5	17.78	TCHSHT
AAA086_6-25	25	6	6	41067.6	41067.6	0.37%	0.54	0.38	0.92	18.59	20	4	19.51	TCHSHT
AAA096_6-25	25	6	6	42808.9	42808.9	0.65%	0.50	0.11	0.61	11.73	30	6	12.34	TCHSHT
AAA0012_6-25	25	6	12	77836.3	77836.3	1.43%	0.97	0.73	1.70	34.15	30	5	35.86	TCHSHT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0112_6-25	25	6	12	80132.8	80132.8	1.14%	1.04	0.54	1.58	112.10	48	8	113.68	TCHSHT
AAA0212_6-25	25	6	12	80910.9	80910.9	1.21%	0.97	0.58	1.54	54.08	24	4	55.62	TCHSHT
AAA0312_6-25	25	6	12	78851.3	78851.3	1.61%	1.01	0.74	1.75	79.81	30	5	81.57	TCHSHT
AAA0412_6-25	25	6	12	81666.3	81666.3	1.01%	1.20	1.14	2.35	73.94	36	6	76.29	TCHSHT
AAA0512_6-25	25	6	12	77550.8	77550.8	1.14%	0.85	0.55	1.40	48.95	30	5	50.35	TCHSHT
AAA0612_6-25	25	6	12	74976.1	74976.1	0.96%	0.96	0.49	1.46	57.57	36	6	59.03	TCHSHT
AAA0712_6-25	25	6	12	78445.2	78445.2	0.53%	0.88	0.58	1.47	23.28	30	5	24.75	TCHSHT
AAA0812_6-25	25	6	12	76253.9	76253.9	1.20%	1.15	0.47	1.62	57.32	30	5	58.94	TCHSHT
AAA0912_6-25	25	6	12	83086.3	83086.3	0.94%	0.93	0.26	1.20	84.24	42	7	85.44	TCHSHT
AAA0018_6-25	25	6	18	112336.2	112336.2	0.90%	1.89	2.30	4.21	116.36	40	5	120.57	TCHSHT
AAA0118_6-25	25	6	18	118743.9	118743.9	1.27%	2.16	1.71	3.87	125.23	48	6	129.10	TCHSHT
AAA0218_6-25	25	6	18	121148.7	121148.7	0.90%	1.86	0.52	2.38	128.91	48	6	131.29	TCHSHT
AAA0318_6-25	25	6	18	118041.1	118041.1	1.28%	2.82	0.85	3.68	224.43	56	7	228.11	TCHSHT
AAA0418_6-25	25	6	18	121582.2	121582.2	0.96%	1.95	1.21	3.16	169.49	56	7	172.66	TCHSHT
AAA0518_6-25	25	6	18	118450.2	118450.2	0.80%	1.67	1.58	3.26	81.80	40	5	85.07	TCHSHT
AAA0618_6-25	25	6	18	109689.3	109689.3	0.83%	1.78	1.02	2.80	95.34	48	6	98.14	TCHSHT
AAA0718_6-25	25	6	18	115588.7	115588.7	0.59%	1.19	0.39	1.59	57.62	40	5	59.22	TCHSHT
AAA0818_6-25	25	6	18	110102.8	110102.8	1.34%	1.92	0.75	2.68	100.18	40	5	102.86	TCHSHT
AAA0918_6-25	25	6	18	123706.9	123706.9	1.29%	1.80	0.92	2.73	138.86	48	6	141.60	TCHSHT
AAA006_6-50	50	6	6	75095.7	75095.7	0.50%	0.71	0.37	1.08	73.88	25	5	74.97	TCHSHT
AAA016_6-50	50	6	6	77637.9	77637.9	0.58%	0.75	0.44	1.20	78.70	30	6	79.90	TCHSHT
AAA026_6-50	50	6	6	80398.8	80398.8	0.58%	0.93	0.95	1.89	42.03	20	4	43.92	TCHSHT
AAA036_6-50	50	6	6	78582.0	78582.0	0.33%	0.71	0.23	0.94	42.46	20	4	43.40	TCHSHT
AAA046_6-50	50	6	6	81384.4	81384.4	1.03%	0.77	0.91	1.68	47.90	20	4	49.58	TCHSHT
AAA056_6-50	50	6	6	81584.4	81584.4	0.40%	0.88	0.22	1.10	75.19	25	5	76.30	TCHSHT
AAA066_6-50	50	6	6	78367.8	78367.8	0.58%	0.87	0.33	1.20	65.22	25	5	66.60	TCHSHT
AAA076_6-50	50	6	6	82040.9	82040.9	0.45%	0.79	0.17	0.96	39.72	15	3	40.68	TCHSHT
AAA086_6-50	50	6	6	76860.5	76860.5	0.11%	0.73	0.26	1.00	38.15	25	5	39.16	TCHSHT
AAA096_6-50	50	6	6	78325.0	78325.0	0.77%	0.82	0.31	1.14	66.97	20	4	68.11	TCHSHT
AAA0012_6-50	50	6	12	145750.0	145750.0	0.24%	1.23	0.48	1.72	52.38	30	5	54.10	TCHSHT
AAA0112_6-50	50	6	12	148842.1	148842.1	0.39%	1.36	0.43	1.80	54.87	24	4	56.67	TCHSHT
AAA0212_6-50	50	6	12	153523.2	153523.2	0.54%	1.35	2.57	3.92	161.55	42	7	165.48	TCHSHT
AAA0312_6-50	50	6	12	152073.4	152073.4	0.48%	1.82	0.46	2.28	91.96	36	6	94.25	TCHSHT
AAA0412_6-50	50	6	12	159024.1	159024.1	0.57%	1.68	0.59	2.27	72.82	24	4	75.10	TCHSHT
AAA0512_6-50	50	6	12	156589.3	156589.3	0.83%	1.70	0.54	2.25	135.95	42	7	138.21	TCHSHT
AAA0612_6-50	50	6	12	147536.9	147536.9	0.60%	2.24	2.23	4.47	175.34	42	7	179.82	TCHSHT
AAA0712_6-50	50	6	12	156928.7	156928.7	0.37%	1.56	1.10	2.66	99.30	42	7	101.96	TCHSHT
AAA0812_6-50	50	6	12	143709.2	143709.2	0.43%	1.65	2.35	4.00	60.21	24	4	64.22	TCHSHT
AAA0912_6-50	50	6	12	151084.4	151084.4	0.48%	1.47	1.19	2.67	91.08	36	6	93.75	TCHSHT
AAA0018_6-50	50	6	18	215878.5	215878.5	0.31%	2.78	1.32	4.11	114.94	40	5	119.06	TCHSHT
AAA0118_6-50	50	6	18	218228.3	218228.3	0.36%	3.14	1.03	4.18	104.33	32	4	108.52	TCHSHT
AAA0218_6-50	50	6	18	223955.5	223955.5	0.50%	2.97	3.64	6.61	166.18	40	5	172.80	TCHSHT
AAA0318_6-50	50	6	18	225745.9	225745.9	0.38%	2.73	1.05	3.79	201.97	64	8	205.77	TCHSHT
AAA0418_6-50	50	6	18	236268.1	236268.1	0.52%	3.78	1.85	5.65	257.92	64	8	263.57	TCHSHT
AAA0518_6-50	50	6	18	225599.0	225599.0	0.56%	3.21	1.08	4.30	191.31	56	7	195.61	TCHSHT
AAA0618_6-50	50	6	18	219564.8	219564.8	0.71%	4.78	3.88	8.67	177.04	32	4	185.72	TCHSHT
AAA0718_6-50	50	6	18	230347.7	230347.7	0.42%	2.72	1.26	3.99	206.34	64	8	210.34	TCHSHT
AAA0818_6-50	50	6	18	214598.1	214598.1	0.29%	2.93	1.30	4.25	102.96	48	6	107.22	TCHSHT
AAA0918_6-50	50	6	18	224162.7	224162.7	0.40%	3.09	1.43	4.53	150.22	40	5	154.76	TCHSHT
AAB006_2-6	6	2	6	14637.3	14637.3	0.40%	0.12	0.03	0.15	0.34	15	3	0.49	TCHSLT
AAB016_2-6	6	2	6	12115.9	12115.9	1.88%	0.17	0.02	0.19	0.38	15	3	0.57	TCHSLT
AAB026_2-6	6	2	6	15474.8	15474.8	0.00%	0.09	0.02	0.11	0.31	15	3	0.42	TCHSLT
AAB046_2-6	6	2	6	19047.5	19047.5	0.63%	0.11	0.02	0.14	1.17	25	5	1.31	TCHSLT
AAB056_2-6	6	2	6	18050.1	18050.1	4.09%	0.12	0.03	0.15	0.35	10	2	0.50	TCHSLT
AAB066_2-6	6	2	6	17565.7	17565.7	0.00%	0.12	0.03	0.15	0.31	15	3	0.46	TCHSLT
AAB076_2-6	6	2	6	18102.1	18102.1	0.67%	0.12	0.02	0.14	0.35	15	3	0.50	TCHSLT
AAB086_2-6	6	2	6	13673.4	13673.4	1.14%	0.11	0.03	0.13	0.29	15	3	0.43	TCHSLT
AAB096_2-6	6	2	6	14297.2	14297.2	0.74%	0.10	0.02	0.12	0.19	10	2	0.31	TCHSLT
AAB0012_2-6	6	2	12	25912.4	25912.4	1.28%	0.26	0.05	0.31	1.91	36	6	2.23	TCHSLT
AAB0112_2-6	6	2	12	25343.8	25343.8	1.84%	0.33	0.03	0.37	2.14	36	6	2.51	TCHSLT
AAB0212_2-6	6	2	12	28635.0	28635.0	1.37%	0.22	0.04	0.26	0.73	18	3	0.99	TCHSLT
AAB0412_2-6	6	2	12	33671.7	33671.7	3.41%	0.33	0.04	0.37	2.93	36	6	3.31	TCHSLT
AAB0512_2-6	6	2	12	34926.7	34926.7	4.92%	0.25	0.05	0.30	1.80	24	4	2.11	TCHSLT
AAB0612_2-6	6	2	12	30759.0	30759.0	0.60%	0.27	0.04	0.32	1.52	30	5	1.84	TCHSLT
AAB0712_2-6	6	2	12	28434.6	28434.6	1.68%	0.24	0.05	0.29	0.85	18	3	1.14	TCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0812_2-6	6	2	12	23292.2	23292.2	1.96%	0.15	0.04	0.19	0.88	24	4	1.07	TCHSLT
AAB0912_2-6	6	2	12	29314.6	29314.6	1.01%	0.28	0.03	0.32	2.12	30	5	2.44	TCHSLT
AAB0018_2-6	6	2	18	34958.0	34958.0	1.12%	0.55	0.06	0.62	3.48	24	3	4.10	TCHSLT
AAB0118_2-6	6	2	18	36039.5	36039.5	2.44%	0.45	0.06	0.51	4.42	40	5	4.94	TCHSLT
AAB0218_2-6	6	2	18	41281.4	41281.4	1.32%	0.37	0.07	0.44	4.70	32	4	5.15	TCHSLT
AAB0418_2-6	6	2	18	39374.5	39374.5	1.96%	0.49	0.08	0.57	2.46	24	3	3.03	TCHSLT
AAB0518_2-6	6	2	18	44707.8	44707.8	1.71%	0.34	0.11	0.45	4.05	40	5	4.50	TCHSLT
AAB0618_2-6	6	2	18	41798.9	41798.9	1.43%	0.47	0.09	0.56	6.33	48	6	6.89	TCHSLT
AAB0718_2-6	6	2	18	40807.9	40807.9	0.56%	0.43	0.08	0.51	3.63	40	5	4.14	TCHSLT
AAB0818_2-6	6	2	18	32914.5	32914.5	0.64%	0.30	0.05	0.35	2.56	40	5	2.92	TCHSLT
AAB0918_2-6	6	2	18	37585.0	37585.0	0.62%	0.29	0.09	0.38	5.97	48	6	6.35	TCHSLT
AAB006_2-12	12	2	6	23465.3	23465.3	1.59%	0.22	0.04	0.26	0.62	15	3	0.88	TCHSLT
AAB016_2-12	12	2	6	27010.1	27010.1	0.63%	0.16	0.02	0.19	0.73	15	3	0.92	TCHSLT
AAB026_2-12	12	2	6	28146.4	28146.4	0.00%	0.20	0.03	0.23	0.69	20	4	0.93	TCHSLT
AAB036_2-12	12	2	6	30480.5	30480.5	0.24%	0.13	0.03	0.16	1.01	20	4	1.17	TCHSLT
AAB046_2-12	12	2	6	27982.7	27982.7	4.90%	0.17	0.03	0.20	0.60	15	3	0.81	TCHSLT
AAB056_2-12	12	2	6	30755.7	30755.7	0.89%	0.18	0.03	0.21	0.64	10	2	0.85	TCHSLT
AAB066_2-12	12	2	6	27781.0	27781.0	1.57%	0.18	0.04	0.22	0.74	15	3	0.96	TCHSLT
AAB076_2-12	12	2	6	27748.1	27748.1	1.93%	0.14	0.02	0.17	0.49	15	3	0.66	TCHSLT
AAB086_2-12	12	2	6	25817.5	25817.5	0.48%	0.15	0.03	0.18	1.49	25	5	1.68	TCHSLT
AAB096_2-12	12	2	6	29231.1	29231.1	1.35%	0.17	0.02	0.19	0.50	10	2	0.70	TCHSLT
AAB0012_2-12	12	2	12	43713.0	43713.0	0.48%	0.27	0.04	0.32	3.43	24	4	3.75	TCHSLT
AAB0112_2-12	12	2	12	42945.8	42945.8	0.37%	0.30	0.06	0.37	1.62	18	3	1.99	TCHSLT
AAB0212_2-12	12	2	12	46374.8	46374.8	1.53%	0.35	0.07	0.42	5.30	42	7	5.72	TCHSLT
AAB0312_2-12	12	2	12	54978.4	54978.4	1.30%	0.37	0.04	0.41	4.78	36	6	5.20	TCHSLT
AAB0412_2-12	12	2	12	46877.8	46877.8	1.88%	0.54	0.06	0.60	3.85	24	4	4.45	TCHSLT
AAB0512_2-12	12	2	12	55239.1	55239.1	2.24%	0.33	0.06	0.39	5.67	30	5	6.06	TCHSLT
AAB0612_2-12	12	2	12	47806.1	47806.1	0.28%	0.36	0.05	0.41	1.37	18	3	1.78	TCHSLT
AAB0712_2-12	12	2	12	53707.2	53707.2	1.48%	0.33	0.05	0.38	25.29	36	6	25.67	TCHSLT
AAB0812_2-12	12	2	12	42948.7	42948.7	0.69%	0.25	0.08	0.33	3.49	24	4	3.82	TCHSLT
AAB0912_2-12	12	2	12	54301.2	54301.2	1.72%	0.40	0.04	0.44	6.23	18	3	6.68	TCHSLT
AAB0118_2-12	12	2	18	65187.1	65187.1	1.64%	0.72	0.08	0.80	13.73	32	4	14.53	TCHSLT
AAB0218_2-12	12	2	18	68788.0	68788.0	2.48%	0.54	0.09	0.63	38.98	40	5	39.61	TCHSLT
AAB0318_2-12	12	2	18	78228.7	78228.7	1.72%	0.41	0.10	0.51	37.09	40	5	37.60	TCHSLT
AAB0418_2-12	12	2	18	69536.1	69536.1	1.36%	0.55	0.11	0.67	19.29	40	5	19.96	TCHSLT
AAB0518_2-12	12	2	18	76756.6	76756.6	2.00%	0.44	0.11	0.55	35.99	40	5	36.55	TCHSLT
AAB0618_2-12	12	2	18	68989.6	68989.6	0.55%	0.50	0.08	0.58	13.03	32	4	13.61	TCHSLT
AAB0718_2-12	12	2	18	69743.6	69743.6	0.48%	0.34	0.07	0.41	12.99	40	5	13.40	TCHSLT
AAB0818_2-12	12	2	18	67881.7	67881.7	1.64%	0.51	0.09	0.61	43.12	56	7	43.73	TCHSLT
AAB0918_2-12	12	2	18	76505.3	76505.3	2.09%	0.83	0.11	0.93	36.63	40	5	37.57	TCHSLT
AAB006_2-25	25	2	6	50723.5	50723.5	0.51%	0.31	0.05	0.35	2.61	15	3	2.97	TCHSLT
AAB016_2-25	25	2	6	50950.4	50950.4	0.27%	0.24	0.05	0.29	0.54	10	2	0.83	TCHSLT
AAB026_2-25	25	2	6	56288.6	56288.6	0.88%	0.30	0.04	0.34	2.55	15	3	2.89	TCHSLT
AAB036_2-25	25	2	6	56310.0	56310.0	0.47%	0.31	0.05	0.36	0.90	10	2	1.27	TCHSLT
AAB046_2-25	25	2	6	58505.0	58505.0	0.32%	0.28	0.03	0.31	1.93	15	3	2.25	TCHSLT
AAB056_2-25	25	2	6	60920.4	60920.4	1.21%	0.30	0.04	0.34	3.03	15	3	3.38	TCHSLT
AAB066_2-25	25	2	6	48418.1	48418.1	0.47%	0.23	0.04	0.27	1.50	15	3	1.77	TCHSLT
AAB076_2-25	25	2	6	54759.1	54759.1	0.46%	0.30	0.03	0.33	1.77	15	3	2.11	TCHSLT
AAB086_2-25	25	2	6	58494.9	58494.9	0.22%	0.27	0.03	0.31	2.64	20	4	2.94	TCHSLT
AAB096_2-25	25	2	6	65292.7	65292.7	0.81%	0.37	0.08	0.45	10.14	30	6	10.60	TCHSLT
AAB0012_2-25	25	2	12	92691.3	92691.3	0.98%	0.51	0.08	0.59	35.10	36	6	35.69	TCHSLT
AAB0112_2-25	25	2	12	97703.2	97703.2	0.62%	0.44	0.08	0.52	11.53	24	4	12.05	TCHSLT
AAB0212_2-25	25	2	12	96816.9	96816.9	2.25%	0.61	0.15	0.76	56.26	24	4	57.02	TCHSLT
AAB0312_2-25	25	2	12	99451.0	99451.0	1.29%	0.49	0.12	0.61	27.91	30	5	28.53	TCHSLT
AAB0412_2-25	25	2	12	99425.0	99425.0	1.52%	0.55	0.06	0.62	37.28	36	6	37.90	TCHSLT
AAB0512_2-25	25	2	12	111451.3	111451.3	1.07%	0.68	0.06	0.74	39.49	30	5	40.23	TCHSLT
AAB0612_2-25	25	2	12	94942.9	94942.9	1.44%	0.54	0.08	0.62	25.87	36	6	26.50	TCHSLT
AAB0712_2-25	25	2	12	98417.4	98417.4	0.73%	0.52	0.11	0.63	28.40	24	4	29.03	TCHSLT
AAB0812_2-25	25	2	12	103250.0	103250.0	0.93%	0.83	0.09	0.92	24.36	24	4	25.28	TCHSLT
AAB0912_2-25	25	2	12	109344.2	109344.2	1.62%	0.64	0.14	0.77	111.11	42	7	111.89	TCHSLT
AAB0018_2-25	25	2	18	132695.1	132695.1	0.85%	0.78	0.16	0.95	92.39	48	6	93.35	TCHSLT
AAB0118_2-25	25	2	18	135782.2	135782.2	0.40%	0.86	0.14	1.00	42.38	48	6	43.38	TCHSLT
AAB0218_2-25	25	2	18	134567.9	134567.9	0.81%	0.93	0.20	1.14	92.39	40	5	93.54	TCHSLT
AAB0318_2-25	25	2	18	148260.1	148260.1	1.13%	0.74	0.13	0.87	86.42	32	4	87.29	TCHSLT
AAB0418_2-25	25	2	18	141114.1	141114.1	0.54%	1.02	0.11	1.14	27.97	24	3	29.11	TCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0518_2-25	25	2	18	155797.3	155797.3	1.58%	0.93	0.14	1.08	125.62	32	4	126.70	TCHSLT
AAB0618_2-25	25	2	18	130808.5	130808.5	0.35%	0.77	0.09	0.87	35.49	32	4	36.36	TCHSLT
AAB0718_2-25	25	2	18	146202.1	146202.1	0.71%	0.99	0.10	1.09	63.54	32	4	64.63	TCHSLT
AAB0818_2-25	25	2	18	143442.8	143442.8	0.78%	1.20	0.13	1.33	168.42	64	8	169.75	TCHSLT
AAB0918_2-25	25	2	18	156520.5	156520.5	1.33%	1.07	0.09	1.16	138.35	40	5	139.51	TCHSLT
AAB006_2-50	50	2	6	99451.1	99451.1	0.23%	0.52	0.08	0.60	6.79	20	4	7.40	TCHSLT
AAB016_2-50	50	2	6	102419.3	102419.3	0.35%	0.45	0.10	0.55	5.94	20	4	6.48	TCHSLT
AAB026_2-50	50	2	6	101616.8	101616.8	0.12%	0.49	0.07	0.56	3.20	15	3	3.76	TCHSLT
AAB036_2-50	50	2	6	108813.7	108813.7	0.15%	0.52	0.09	0.61	3.99	10	2	4.60	TCHSLT
AAB046_2-50	50	2	6	116349.0	116349.0	0.28%	0.55	0.07	0.62	7.06	15	3	7.68	TCHSLT
AAB056_2-50	50	2	6	114651.9	114651.9	0.61%	0.49	0.05	0.54	14.17	10	2	14.71	TCHSLT
AAB066_2-50	50	2	6	102289.0	102289.0	0.33%	0.49	0.06	0.55	5.48	15	3	6.03	TCHSLT
AAB076_2-50	50	2	6	110751.8	110751.8	0.69%	0.49	0.06	0.54	12.36	20	4	12.90	TCHSLT
AAB086_2-50	50	2	6	104820.9	104820.9	0.11%	0.44	0.06	0.51	6.13	20	4	6.64	TCHSLT
AAB096_2-50	50	2	6	111289.6	111289.6	0.20%	0.45	0.05	0.50	4.78	10	2	5.28	TCHSLT
AAB0012_2-50	50	2	12	183205.7	183205.7	0.44%	0.93	0.16	1.10	37.26	24	4	38.36	TCHSLT
AAB0112_2-50	50	2	12	189062.0	189062.0	0.33%	1.11	0.14	1.25	49.18	30	5	50.43	TCHSLT
AAB0212_2-50	50	2	12	185751.6	185751.6	0.63%	0.90	0.21	1.12	70.57	30	5	71.69	TCHSLT
AAB0312_2-50	50	2	12	195268.3	195268.3	0.33%	0.81	0.12	0.93	36.89	30	5	37.82	TCHSLT
AAB0412_2-50	50	2	12	206718.5	206718.5	0.52%	1.11	0.16	1.27	82.64	24	4	83.91	TCHSLT
AAB0512_2-50	50	2	12	203335.9	203335.9	0.86%	0.88	0.16	1.04	50.21	18	3	51.26	TCHSLT
AAB0612_2-50	50	2	12	179869.4	179869.4	0.27%	1.09	0.15	1.24	27.07	24	4	28.31	TCHSLT
AAB0712_2-50	50	2	12	196714.0	196714.0	0.38%	1.00	0.11	1.11	72.77	24	4	73.88	TCHSLT
AAB0812_2-50	50	2	12	186284.9	186284.9	0.34%	0.70	0.11	0.81	59.22	42	7	60.03	TCHSLT
AAB0912_2-50	50	2	12	200071.2	200071.2	0.44%	1.20	0.13	1.33	54.43	30	5	55.76	TCHSLT
AAB0018_2-50	50	2	18	264234.4	264234.4	0.13%	1.39	0.23	1.63	107.69	48	6	109.32	TCHSLT
AAB0118_2-50	50	2	18	272742.7	272742.7	0.25%	1.43	0.22	1.66	113.04	40	5	114.70	TCHSLT
AAB0218_2-50	50	2	18	265094.5	265094.5	0.25%	1.38	0.13	1.51	126.66	40	5	128.17	TCHSLT
AAB0318_2-50	50	2	18	285387.3	285387.3	0.22%	1.48	0.18	1.67	78.05	32	4	79.72	TCHSLT
AAB0418_2-50	50	2	18	300574.6	300574.6	0.46%	1.80	0.18	1.98	269.23	48	6	271.21	TCHSLT
AAB0518_2-50	50	2	18	292461.0	292461.0	0.38%	1.30	0.14	1.45	122.27	40	5	123.72	TCHSLT
AAB0618_2-50	50	2	18	262406.6	262406.6	0.29%	1.92	0.18	2.11	95.33	32	4	97.44	TCHSLT
AAB0718_2-50	50	2	18	279284.8	279284.8	0.32%	1.56	0.21	1.77	152.72	32	4	154.49	TCHSLT
AAB0818_2-50	50	2	18	268056.2	268056.2	0.17%	1.29	0.18	1.48	97.56	32	4	99.03	TCHSLT
AAB0918_2-50	50	2	18	290486.7	290486.7	0.41%	1.61	0.18	1.79	192.03	48	6	193.83	TCHSLT
AAB006_4-6	6	4	6	10170.4	10170.4	2.26%	0.12	0.04	0.17	0.27	10	2	0.44	TCHSLT
AAB016_4-6	6	4	6	13656.8	13656.8	0.20%	0.20	0.07	0.27	1.64	20	4	1.91	TCHSLT
AAB026_4-6	6	4	6	12992.2	12992.2	0.71%	0.18	0.05	0.23	0.49	15	3	0.72	TCHSLT
AAB036_4-6	6	4	6	13992.7	13992.7	1.02%	0.15	0.04	0.23	1.02	25	5	1.21	TCHSLT
AAB046_4-6	6	4	6	11571.9	11571.9	0.89%	0.20	0.04	0.25	0.54	15	3	0.79	TCHSLT
AAB056_4-6	6	4	6	16689.7	16689.7	1.89%	0.14	0.05	0.19	0.72	15	3	0.92	TCHSLT
AAB066_4-6	6	4	6	13403.2	13403.2	4.52%	0.17	0.05	0.22	0.72	20	4	0.94	TCHSLT
AAB076_4-6	6	4	6	15036.4	15036.4	2.71%	0.14	0.05	0.19	0.82	20	4	1.01	TCHSLT
AAB086_4-6	6	4	6	10817.9	10817.9	2.20%	0.13	0.06	0.19	0.30	15	3	0.49	TCHSLT
AAB096_4-6	6	4	6	15261.8	15261.8	0.71%	0.14	0.04	0.19	0.31	15	3	0.50	TCHSLT
AAB0012_4-6	6	4	12	18598.9	18598.9	0.88%	0.30	0.08	0.39	1.26	18	3	1.65	TCHSLT
AAB0112_4-6	6	4	12	27069.2	27069.2	0.94%	0.46	0.13	0.59	4.50	24	4	5.09	TCHSLT
AAB0212_4-6	6	4	12	24863.8	24863.8	0.69%	0.41	0.10	0.51	1.16	12	2	1.67	TCHSLT
AAB0312_4-6	6	4	12	27519.8	27519.8	0.45%	0.32	0.10	0.43	2.15	36	6	2.58	TCHSLT
AAB0412_4-6	6	4	12	26472.5	26472.5	2.34%	0.32	0.08	0.40	8.18	30	5	8.59	TCHSLT
AAB0512_4-6	6	4	12	32653.0	32653.0	2.63%	0.34	0.09	0.43	1.16	18	3	1.59	TCHSLT
AAB0612_4-6	6	4	12	22903.3	22903.3	0.71%	0.30	0.13	0.43	1.28	18	3	1.72	TCHSLT
AAB0712_4-6	6	4	12	26021.3	26021.3	1.89%	0.29	0.12	0.41	0.89	18	3	1.30	TCHSLT
AAB0812_4-6	6	4	12	23745.1	23745.1	2.32%	0.34	0.10	0.44	2.11	30	5	2.54	TCHSLT
AAB0912_4-6	6	4	12	27477.3	27477.3	0.46%	0.30	0.08	0.38	0.92	24	4	1.31	TCHSLT
AAB0018_4-6	6	4	18	28384.8	28384.8	0.02%	0.83	0.14	0.97	6.10	48	6	7.07	TCHSLT
AAB0118_4-6	6	4	18	36205.0	36205.0	1.69%	0.88	0.20	1.08	12.83	40	5	13.91	TCHSLT
AAB0218_4-6	6	4	18	35823.9	35823.9	1.07%	0.78	0.20	0.98	4.61	24	3	5.59	TCHSLT
AAB0318_4-6	6	4	18	41488.1	41488.1	0.25%	0.59	0.13	0.72	9.59	32	4	10.32	TCHSLT
AAB0418_4-6	6	4	18	37354.0	37354.0	1.08%	0.74	0.21	0.95	7.51	32	4	8.46	TCHSLT
AAB0518_4-6	6	4	18	45602.3	45602.3	1.54%	0.63	0.18	0.82	6.47	32	4	7.29	TCHSLT
AAB0618_4-6	6	4	18	36562.8	36562.8	0.97%	0.60	0.16	0.76	5.05	32	4	5.81	TCHSLT
AAB0718_4-6	6	4	18	38864.0	38864.0	0.37%	0.42	0.17	0.59	6.50	40	5	7.09	TCHSLT
AAB0818_4-6	6	4	18	29184.5	29184.5	0.18%	0.52	0.19	0.71	1.82	32	4	2.54	TCHSLT
AAB0918_4-6	6	4	18	39484.1	39484.1	0.18%	0.59	0.12	0.71	3.27	32	4	3.98	TCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB006_4-12	12	4	6	21117.7	21117.7	0.00%	0.25	0.06	0.31	1.21	15	3	1.52	TCHSLT
AAB016_4-12	12	4	6	25122.0	25122.0	0.81%	0.29	0.05	0.35	6.53	25	5	6.88	TCHSLT
AAB026_4-12	12	4	6	19327.8	19327.8	0.12%	0.16	0.07	0.23	1.08	20	4	1.31	TCHSLT
AAB036_4-12	12	4	6	22088.7	22088.7	1.63%	0.24	0.06	0.31	2.58	15	3	2.89	TCHSLT
AAB046_4-12	12	4	6	24327.7	24327.7	1.42%	0.26	0.05	0.31	2.30	20	4	2.61	TCHSLT
AAB056_4-12	12	4	6	25925.0	25925.0	1.95%	0.23	0.07	0.30	0.87	10	2	1.17	TCHSLT
AAB066_4-12	12	4	6	22544.3	22544.3	1.91%	0.26	0.06	0.32	1.19	10	2	1.51	TCHSLT
AAB076_4-12	12	4	6	23572.8	23572.8	3.92%	0.27	0.05	0.32	17.41	15	3	17.73	TCHSLT
AAB086_4-12	12	4	6	23797.3	23797.3	1.88%	0.20	0.04	0.24	0.61	10	2	0.86	TCHSLT
AAB096_4-12	12	4	6	23792.7	23792.7	1.25%	0.23	0.06	0.29	1.59	10	2	1.89	TCHSLT
AAB0012_4-12	12	4	12	38532.6	38532.6	2.86%	0.57	0.10	0.67	9.58	18	3	10.25	TCHSLT
AAB0112_4-12	12	4	12	44184.4	44184.4	2.22%	0.86	0.14	1.00	47.02	36	6	48.02	TCHSLT
AAB0212_4-12	12	4	12	38153.2	38153.2	0.22%	0.33	0.13	0.46	4.79	24	4	5.25	TCHSLT
AAB0312_4-12	12	4	12	42977.6	42977.6	2.42%	0.50	0.18	0.68	17.77	30	5	18.45	TCHSLT
AAB0412_4-12	12	4	12	44205.5	44205.5	1.80%	0.46	0.14	0.60	18.69	36	6	19.30	TCHSLT
AAB0512_4-12	12	4	12	48352.1	48352.1	1.68%	0.48	0.18	0.65	29.58	36	6	30.24	TCHSLT
AAB0612_4-12	12	4	12	41584.8	41584.8	0.66%	0.41	0.12	0.53	5.56	24	4	6.09	TCHSLT
AAB0712_4-12	12	4	12	45951.0	45951.0	2.17%	0.50	0.19	0.69	60.42	48	8	61.11	TCHSLT
AAB0812_4-12	12	4	12	42880.1	42880.1	0.23%	0.37	0.08	0.45	4.17	24	4	4.62	TCHSLT
AAB0912_4-12	12	4	12	46938.9	46938.9	1.70%	0.54	0.19	0.72	26.78	30	5	27.51	TCHSLT
AAB0018_4-12	12	4	18	55926.1	55926.1	0.93%	0.94	0.23	1.18	42.99	32	4	44.17	TCHSLT
AAB0118_4-12	12	4	18	63223.5	63223.5	1.41%	1.55	0.39	1.94	95.67	56	7	97.62	TCHSLT
AAB0218_4-12	12	4	18	54800.8	54800.8	0.37%	0.60	0.23	0.83	18.04	48	6	18.87	TCHSLT
AAB0318_4-12	12	4	18	65107.6	65107.6	2.14%	1.24	0.17	1.42	79.86	40	5	81.28	TCHSLT
AAB0418_4-12	12	4	18	65683.0	65683.0	1.95%	0.81	0.15	0.96	53.62	32	4	54.58	TCHSLT
AAB0518_4-12	12	4	18	69720.8	69720.8	2.14%	0.82	0.25	1.07	53.94	40	5	55.02	TCHSLT
AAB0618_4-12	12	4	18	61900.7	61900.7	1.77%	0.80	0.27	1.07	12.69	24	3	13.76	TCHSLT
AAB0718_4-12	12	4	18	70529.8	70529.8	2.57%	1.67	0.30	1.98	120.71	48	6	122.69	TCHSLT
AAB0818_4-12	12	4	18	64751.6	64751.6	0.17%	0.63	0.16	0.80	27.38	40	5	28.18	TCHSLT
AAB0918_4-12	12	4	18	66620.1	66620.1	2.14%	0.76	0.30	1.06	75.37	40	5	76.43	TCHSLT
AAB006_4-25	25	4	6	39075.6	39075.6	0.32%	0.43	0.10	0.54	6.86	10	2	7.40	TCHSLT
AAB016_4-25	25	4	6	47847.9	47847.9	0.46%	0.47	0.10	0.57	16.49	20	4	17.05	TCHSLT
AAB026_4-25	25	4	6	45996.2	45996.2	1.53%	0.55	0.17	0.72	21.38	20	4	22.10	TCHSLT
AAB036_4-25	25	4	6	45872.6	45872.6	1.56%	0.45	0.15	0.61	11.85	20	4	12.45	TCHSLT
AAB046_4-25	25	4	6	46112.7	46112.7	0.62%	0.43	0.09	0.53	21.88	20	4	22.40	TCHSLT
AAB056_4-25	25	4	6	50389.7	50389.7	1.44%	0.45	0.08	0.53	23.67	20	4	24.21	TCHSLT
AAB066_4-25	25	4	6	39718.1	39718.1	0.93%	0.38	0.14	0.52	3.27	15	3	3.79	TCHSLT
AAB076_4-25	25	4	6	45885.5	45885.5	1.46%	0.44	0.10	0.54	20.89	20	4	21.43	TCHSLT
AAB086_4-25	25	4	6	41994.6	41994.6	0.85%	0.49	0.09	0.58	15.67	15	3	16.25	TCHSLT
AAB096_4-25	25	4	6	47692.1	47692.1	0.69%	0.54	0.16	0.71	4.02	20	4	4.73	TCHSLT
AAB0012_4-25	25	4	12	77113.7	77113.7	0.86%	1.29	0.20	1.50	50.55	24	4	52.05	TCHSLT
AAB0112_4-25	25	4	12	86836.5	86836.5	1.79%	1.03	0.30	1.33	71.97	24	4	73.31	TCHSLT
AAB0212_4-25	25	4	12	82812.0	82812.0	1.52%	0.93	0.33	1.27	134.94	36	6	136.21	TCHSLT
AAB0312_4-25	25	4	12	86065.9	86065.9	1.44%	0.98	0.34	1.32	73.97	30	5	75.29	TCHSLT
AAB0412_4-25	25	4	12	86754.4	86754.4	1.19%	0.79	0.47	1.26	76.19	36	6	77.45	TCHSLT
AAB0512_4-25	25	4	12	90017.3	90017.3	1.10%	0.74	0.17	0.92	60.89	30	5	61.80	TCHSLT
AAB0612_4-25	25	4	12	76299.1	76299.1	1.20%	1.13	0.21	1.34	53.47	24	4	54.82	TCHSLT
AAB0712_4-25	25	4	12	86540.5	86540.5	1.37%	0.80	0.30	1.11	65.56	24	4	66.66	TCHSLT
AAB0812_4-25	25	4	12	80862.7	80862.7	0.79%	0.75	0.18	0.94	61.17	30	5	62.11	TCHSLT
AAB0912_4-25	25	4	12	86658.8	86658.8	0.82%	0.72	0.24	0.96	37.26	30	5	38.22	TCHSLT
AAB0018_4-25	25	4	18	111489.6	111489.6	0.88%	1.58	0.31	1.90	100.25	40	5	102.16	TCHSLT
AAB0118_4-25	25	4	18	125263.2	125263.2	1.60%	1.78	0.55	2.34	196.24	48	6	198.58	TCHSLT
AAB0218_4-25	25	4	18	121629.4	121629.4	1.99%	1.88	0.45	2.33	195.46	48	6	197.80	TCHSLT
AAB0318_4-25	25	4	18	124895.3	124895.3	1.18%	1.37	0.47	1.85	162.04	56	7	163.90	TCHSLT
AAB0418_4-25	25	4	18	127386.3	127386.3	1.30%	1.73	0.35	2.09	179.68	56	7	181.78	TCHSLT
AAB0518_4-25	25	4	18	129411.5	129411.5	0.85%	1.33	0.32	1.65	118.89	48	6	120.54	TCHSLT
AAB0618_4-25	25	4	18	112524.7	112524.7	0.79%	1.06	0.39	1.46	80.49	40	5	81.95	TCHSLT
AAB0718_4-25	25	4	18	124920.0	124920.0	0.86%	1.45	0.51	1.97	175.21	64	8	177.17	TCHSLT
AAB0818_4-25	25	4	18	115027.3	115027.3	0.98%	1.76	0.47	2.24	141.90	40	5	144.14	TCHSLT
AAB0918_4-25	25	4	18	127405.7	127405.7	1.21%	1.50	0.42	1.93	120.84	48	6	122.77	TCHSLT
AAB006_4-50	50	4	6	83896.4	83896.4	0.46%	0.65	0.29	0.95	45.04	25	5	46.00	TCHSLT
AAB016_4-50	50	4	6	87421.0	87421.0	0.31%	0.73	0.27	1.01	41.02	20	4	42.03	TCHSLT
AAB026_4-50	50	4	6	89450.3	89450.3	0.56%	0.80	0.45	1.25	51.85	15	3	53.10	TCHSLT
AAB036_4-50	50	4	6	90463.0	90463.0	0.63%	0.62	0.10	0.72	23.73	15	3	24.45	TCHSLT
AAB046_4-50	50	4	6	98217.1	98217.1	0.82%	0.74	0.17	0.91	48.69	15	3	49.60	TCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB056_4-50	50	4	6	92740.4	92740.4	0.77%	0.74	0.11	0.85	65.79	20	4	66.65	TCHSLT
AAB066_4-50	50	4	6	81569.0	81569.0	0.25%	0.59	0.11	0.70	20.61	15	3	21.31	TCHSLT
AAB076_4-50	50	4	6	86199.7	86199.7	0.76%	0.74	0.13	0.87	70.26	25	5	71.14	TCHSLT
AAB086_4-50	50	4	6	86204.9	86204.9	0.47%	0.71	0.14	0.85	28.71	15	3	29.56	TCHSLT
AAB096_4-50	50	4	6	96562.3	96562.3	0.28%	0.83	0.17	1.00	14.84	15	3	15.84	TCHSLT
AAB0012_4-50	50	4	12	163307.2	163307.2	0.49%	1.58	0.47	2.05	91.96	24	4	94.01	TCHSLT
AAB0112_4-50	50	4	12	159810.6	159810.6	0.39%	1.13	0.89	2.03	113.34	30	5	115.38	TCHSLT
AAB0212_4-50	50	4	12	161767.7	161767.7	0.54%	1.67	0.63	2.30	150.51	36	6	152.82	TCHSLT
AAB0312_4-50	50	4	12	169483.3	169483.3	0.58%	1.32	0.36	1.68	117.77	30	5	119.46	TCHSLT
AAB0412_4-50	50	4	12	176033.4	176033.4	0.96%	1.61	0.61	2.22	306.69	72	12	308.92	TCHSLT
AAB0512_4-50	50	4	12	169172.9	169172.9	0.87%	1.66	0.42	2.08	113.52	30	5	115.61	TCHSLT
AAB0612_4-50	50	4	12	152323.2	152323.2	0.42%	1.31	0.27	1.59	49.10	30	5	50.69	TCHSLT
AAB0712_4-50	50	4	12	165921.9	165921.9	0.70%	1.55	0.33	1.88	128.08	30	5	129.98	TCHSLT
AAB0812_4-50	50	4	12	160730.1	160730.1	0.79%	1.28	0.65	1.93	114.70	30	5	116.63	TCHSLT
AAB0912_4-50	50	4	12	174445.1	174445.1	0.31%	1.59	0.62	2.21	57.11	30	5	59.33	TCHSLT
AAB0018_4-50	50	4	18	232030.9	232030.9	0.48%	2.80	0.52	3.33	204.20	48	6	207.53	TCHSLT
AAB0118_4-50	50	4	18	235534.9	235534.9	0.51%	2.42	0.85	3.28	221.79	48	6	225.07	TCHSLT
AAB0218_4-50	50	4	18	242945.0	242945.0	0.63%	2.69	0.49	3.18	273.15	48	6	276.33	TCHSLT
AAB0318_4-50	50	4	18	246828.4	246828.4	0.53%	2.55	0.46	3.01	185.87	40	5	188.88	TCHSLT
AAB0418_4-50	50	4	18	257349.9	257349.9	0.48%	2.54	0.59	3.14	281.51	56	7	284.65	TCHSLT
AAB0518_4-50	50	4	18	248565.3	248565.3	0.62%	2.28	1.30	3.59	265.80	64	8	269.39	TCHSLT
AAB0618_4-50	50	4	18	226020.6	226020.6	0.31%	2.26	0.30	2.57	128.41	48	6	130.98	TCHSLT
AAB0718_4-50	50	4	18	246065.7	246065.7	0.93%	3.37	0.81	4.19	229.73	40	5	233.93	TCHSLT
AAB0818_4-50	50	4	18	231188.1	231188.1	0.63%	2.50	0.94	3.45	201.93	48	6	205.38	TCHSLT
AAB0918_4-50	50	4	18	254397.5	254397.5	0.34%	2.29	0.63	2.93	155.22	40	5	158.16	TCHSLT
AAB006_6-6	6	6	6	10290.5	10290.5	0.00%	0.16	0.07	0.23	0.84	20	4	1.07	TCHSLT
AAB026_6-6	6	6	6	13496.6	13496.6	0.59%	0.20	0.11	0.31	0.68	15	3	0.99	TCHSLT
AAB036_6-6	6	6	6	15280.7	15280.7	2.68%	0.18	0.07	0.26	0.94	30	6	1.20	TCHSLT
AAB046_6-6	6	6	6	15139.2	15139.2	2.51%	0.25	0.07	0.32	0.67	20	4	0.99	TCHSLT
AAB056_6-6	6	6	6	18131.1	18131.1	0.27%	0.20	0.06	0.27	0.48	10	2	0.75	TCHSLT
AAB066_6-6	6	6	6	12440.1	12440.1	0.52%	0.16	0.05	0.21	0.46	10	2	0.67	TCHSLT
AAB076_6-6	6	6	6	17100.0	17100.0	2.80%	0.19	0.08	0.27	3.06	25	5	3.33	TCHSLT
AAB086_6-6	6	6	6	16722.0	16722.0	2.41%	0.24	0.09	0.34	0.92	15	3	1.26	TCHSLT
AAB096_6-6	6	6	6	18447.5	18447.5	2.75%	0.24	0.10	0.34	0.90	10	2	1.24	TCHSLT
AAB0012_6-6	6	6	12	21483.6	21483.6	1.21%	0.50	0.11	0.62	1.96	24	4	2.58	TCHSLT
AAB0212_6-6	6	6	12	26163.6	26163.6	0.23%	0.57	0.30	0.88	2.75	18	3	3.63	TCHSLT
AAB0312_6-6	6	6	12	29466.3	29466.3	1.53%	0.56	0.20	0.76	2.28	24	4	3.04	TCHSLT
AAB0412_6-6	6	6	12	29461.9	29461.9	0.92%	0.60	0.40	1.00	1.51	12	2	2.51	TCHSLT
AAB0512_6-6	6	6	12	32242.5	32242.5	2.05%	0.43	0.15	0.58	3.70	24	4	4.29	TCHSLT
AAB0612_6-6	6	6	12	25667.3	25667.3	0.34%	0.50	0.13	0.62	2.76	18	3	3.39	TCHSLT
AAB0712_6-6	6	6	12	31087.6	31087.6	1.45%	0.49	0.15	0.64	1.98	18	3	2.62	TCHSLT
AAB0812_6-6	6	6	12	30961.9	30961.9	3.70%	0.55	0.30	0.85	4.47	18	3	5.32	TCHSLT
AAB0912_6-6	6	6	12	34602.9	34602.9	2.12%	0.59	0.25	0.84	2.56	18	3	3.41	TCHSLT
AAB0018_6-6	6	6	18	31491.6	31491.6	1.51%	1.30	0.25	1.55	8.49	32	4	10.04	TCHSLT
AAB0218_6-6	6	6	18	35196.2	35196.2	0.19%	1.04	0.41	1.45	4.24	32	4	5.69	TCHSLT
AAB0318_6-6	6	6	18	41174.3	41174.3	0.27%	1.07	0.52	1.60	4.10	32	4	5.71	TCHSLT
AAB0418_6-6	6	6	18	43206.1	43206.1	0.82%	1.75	0.58	2.33	16.47	40	5	18.81	TCHSLT
AAB0518_6-6	6	6	18	48829.8	48829.8	1.83%	0.94	0.32	1.26	8.82	32	4	10.08	TCHSLT
AAB0618_6-6	6	6	18	36245.4	36245.4	0.71%	0.84	0.30	1.14	6.76	40	5	7.90	TCHSLT
AAB0718_6-6	6	6	18	45591.7	45591.7	0.87%	0.97	0.40	1.37	5.88	32	4	7.25	TCHSLT
AAB0818_6-6	6	6	18	48332.1	48332.1	2.93%	1.41	0.42	1.83	8.83	16	2	10.66	TCHSLT
AAB0918_6-6	6	6	18	51809.1	51809.1	1.37%	1.25	0.42	1.67	23.41	40	5	25.09	TCHSLT
AAB006_6-12	12	6	6	21642.4	21642.4	1.90%	0.29	0.09	0.38	2.84	20	4	3.22	TCHSLT
AAB016_6-12	12	6	6	22212.1	22212.1	0.55%	0.33	0.19	0.52	10.48	20	4	11.00	TCHSLT
AAB026_6-12	12	6	6	21153.6	21153.6	0.44%	0.39	0.11	0.50	5.59	20	4	6.09	TCHSLT
AAB036_6-12	12	6	6	22195.0	22195.0	2.49%	0.31	0.15	0.46	3.24	20	4	3.70	TCHSLT
AAB046_6-12	12	6	6	19942.5	19942.5	1.32%	0.30	0.25	0.55	2.36	20	4	2.91	TCHSLT
AAB056_6-12	12	6	6	21644.4	21644.4	1.45%	0.27	0.08	0.35	6.59	25	5	6.95	TCHSLT
AAB066_6-12	12	6	6	19298.0	19298.0	2.27%	0.25	0.10	0.36	1.03	15	3	1.39	TCHSLT
AAB076_6-12	12	6	6	26179.1	26179.1	3.49%	0.35	0.19	0.54	9.29	20	4	9.83	TCHSLT
AAB086_6-12	12	6	6	22383.3	22383.3	1.38%	0.38	0.18	0.56	5.01	20	4	5.57	TCHSLT
AAB096_6-12	12	6	6	25560.2	25560.2	0.96%	0.40	0.13	0.53	5.04	20	4	5.58	TCHSLT
AAB0012_6-12	12	6	12	39452.4	39452.4	1.08%	0.69	0.31	1.00	20.17	36	6	21.18	TCHSLT
AAB0112_6-12	12	6	12	42396.8	42396.8	1.61%	0.66	0.51	1.17	5.50	24	4	6.68	TCHSLT
AAB0212_6-12	12	6	12	40882.3	40882.3	2.37%	0.70	0.41	1.11	28.95	30	5	30.06	TCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0312_6-12	12	6	12	43239.3	43239.3	1.06%	0.87	0.44	1.31	27.32	36	6	28.64	TCHSLT
AAB0412_6-12	12	6	12	38070.8	38070.8	0.90%	0.67	0.38	1.05	28.64	36	6	29.69	TCHSLT
AAB0512_6-12	12	6	12	44598.2	44598.2	1.70%	0.63	0.25	0.89	17.49	36	6	18.38	TCHSLT
AAB0612_6-12	12	6	12	36578.1	36578.1	1.80%	0.65	0.27	0.91	7.88	30	5	8.80	TCHSLT
AAB0712_6-12	12	6	12	51544.5	51544.5	2.38%	0.85	0.30	1.15	50.59	30	5	51.74	TCHSLT
AAB0812_6-12	12	6	12	42678.7	42678.7	2.08%	0.79	0.40	1.19	32.63	24	4	33.82	TCHSLT
AAB0912_6-12	12	6	12	46450.8	46450.8	2.00%	0.71	0.45	1.17	46.93	36	6	48.10	TCHSLT
AAB0018_6-12	12	6	18	59236.9	59236.9	1.41%	1.57	0.38	1.95	46.02	48	6	47.97	TCHSLT
AAB0118_6-12	12	6	18	64455.2	64455.2	0.86%	1.89	0.60	2.50	39.37	48	6	41.87	TCHSLT
AAB0218_6-12	12	6	18	59235.4	59235.4	1.72%	1.88	1.15	3.04	64.15	40	5	67.19	TCHSLT
AAB0318_6-12	12	6	18	60701.3	60701.3	1.29%	1.20	0.99	2.19	43.11	40	5	45.30	TCHSLT
AAB0418_6-12	12	6	18	54700.7	54700.7	0.89%	1.38	0.66	2.04	40.86	40	5	42.91	TCHSLT
AAB0518_6-12	12	6	18	66718.5	66718.5	2.09%	1.34	0.80	2.15	54.55	40	5	56.70	TCHSLT
AAB0618_6-12	12	6	18	56857.3	56857.3	1.57%	1.18	0.31	1.49	22.44	32	4	23.93	TCHSLT
AAB0718_6-12	12	6	18	73831.3	73831.3	2.28%	1.68	0.85	2.53	112.81	48	6	115.34	TCHSLT
AAB0818_6-12	12	6	18	62161.4	62161.4	2.23%	1.78	0.72	2.50	65.95	40	5	68.46	TCHSLT
AAB0918_6-12	12	6	18	67820.2	67820.2	0.85%	1.38	0.67	2.05	32.76	40	5	34.82	TCHSLT
AAB006_6-25	25	6	6	41935.4	41935.4	1.36%	0.55	0.25	0.80	29.80	20	4	30.60	TCHSLT
AAB016_6-25	25	6	6	41840.7	41840.7	1.68%	0.53	0.28	0.80	38.39	15	3	39.20	TCHSLT
AAB026_6-25	25	6	6	43953.7	43953.7	1.52%	0.63	0.15	0.78	51.93	25	5	52.71	TCHSLT
AAB036_6-25	25	6	6	43134.9	43134.9	1.97%	0.60	0.21	0.81	70.00	25	5	70.81	TCHSLT
AAB046_6-25	25	6	6	45596.2	45596.2	1.46%	0.68	0.22	0.90	63.49	25	5	64.39	TCHSLT
AAB056_6-25	25	6	6	42317.0	42317.0	1.33%	0.58	0.27	0.86	15.13	20	4	15.99	TCHSLT
AAB066_6-25	25	6	6	41079.5	41079.5	1.45%	0.59	0.26	0.85	37.46	25	5	38.31	TCHSLT
AAB076_6-25	25	6	6	44568.5	44568.5	1.24%	0.44	0.10	0.54	19.72	25	5	20.26	TCHSLT
AAB086_6-25	25	6	6	43515.2	43515.2	1.76%	0.57	0.13	0.70	52.50	25	5	53.20	TCHSLT
AAB096_6-25	25	6	6	45105.0	45105.0	3.04%	0.51	0.19	0.70	45.43	20	4	46.14	TCHSLT
AAB0012_6-25	25	6	12	79749.7	79749.7	1.62%	1.29	0.39	1.69	115.06	48	8	116.74	TCHSLT
AAB0112_6-25	25	6	12	82807.6	82807.6	1.87%	1.28	0.76	2.05	69.91	24	4	71.97	TCHSLT
AAB0212_6-25	25	6	12	82906.1	82906.1	1.77%	1.60	0.71	2.31	82.11	30	5	84.42	TCHSLT
AAB0312_6-25	25	6	12	81044.4	81044.4	1.98%	1.42	0.42	1.85	104.87	30	5	106.72	TCHSLT
AAB0412_6-25	25	6	12	85324.1	85324.1	2.97%	1.43	0.58	2.01	113.15	30	5	115.16	TCHSLT
AAB0512_6-25	25	6	12	79279.1	79279.1	1.12%	1.22	0.47	1.69	59.89	30	5	61.59	TCHSLT
AAB0612_6-25	25	6	12	77505.4	77505.4	1.79%	1.35	0.57	1.93	69.02	24	4	70.95	TCHSLT
AAB0712_6-25	25	6	12	80385.8	80385.8	1.56%	1.04	0.38	1.43	31.03	24	4	32.46	TCHSLT
AAB0812_6-25	25	6	12	78987.7	78987.7	1.55%	1.18	0.44	1.62	74.91	36	6	76.54	TCHSLT
AAB0912_6-25	25	6	12	85379.3	85379.3	1.16%	1.14	0.47	1.61	109.66	42	7	111.28	TCHSLT
AAB0018_6-25	25	6	18	116221.0	116221.0	1.87%	2.55	2.56	5.12	279.10	56	7	284.22	TCHSLT
AAB0118_6-25	25	6	18	121226.8	121226.8	1.53%	2.57	2.01	4.59	220.03	56	7	224.62	TCHSLT
AAB0218_6-25	25	6	18	124207.3	124207.3	1.58%	3.11	1.52	4.63	277.61	72	9	282.24	TCHSLT
AAB0318_6-25	25	6	18	120719.4	120719.4	1.70%	2.70	0.83	3.53	362.57	56	7	366.10	TCHSLT
AAB0418_6-25	25	6	18	125356.9	125356.9	1.84%	2.93	1.16	4.09	322.86	64	8	326.96	TCHSLT
AAB0518_6-25	25	6	18	121451.6	121451.6	1.71%	1.93	1.36	3.29	208.85	64	8	212.15	TCHSLT
AAB0618_6-25	25	6	18	112815.2	112815.2	1.48%	2.20	1.17	3.38	223.01	56	7	226.39	TCHSLT
AAB0718_6-25	25	6	18	118070.3	118070.3	1.24%	1.80	0.88	2.68	98.18	40	5	100.87	TCHSLT
AAB0818_6-25	25	6	18	113781.9	113781.9	1.80%	2.00	0.95	2.95	190.19	56	7	193.15	TCHSLT
AAB0918_6-25	25	6	18	126460.3	126460.3	1.48%	2.44	1.29	3.73	138.13	40	5	141.87	TCHSLT
AAB006_6-50	50	6	6	77265.4	77265.4	1.03%	0.98	0.35	1.33	77.95	20	4	79.29	TCHSLT
AAB016_6-50	50	6	6	80437.6	80437.6	0.76%	1.00	0.39	1.39	73.99	20	4	75.39	TCHSLT
AAB026_6-50	50	6	6	83182.7	83182.7	0.73%	1.22	0.38	1.61	106.31	25	5	107.92	TCHSLT
AAB036_6-50	50	6	6	80881.3	80881.3	0.86%	0.96	0.20	1.17	95.93	25	5	97.10	TCHSLT
AAB046_6-50	50	6	6	84451.0	84451.0	1.16%	1.15	0.39	1.54	107.57	25	5	109.11	TCHSLT
AAB056_6-50	50	6	6	84834.9	84834.9	0.91%	1.06	0.35	1.41	82.28	20	4	83.70	TCHSLT
AAB066_6-50	50	6	6	81033.5	81033.5	0.66%	1.57	0.58	2.15	129.47	30	6	131.62	TCHSLT
AAB076_6-50	50	6	6	83500.6	83500.6	0.46%	0.88	0.34	1.22	52.56	25	5	53.78	TCHSLT
AAB086_6-50	50	6	6	79786.5	79786.5	0.54%	0.87	0.39	1.26	73.81	20	4	75.07	TCHSLT
AAB096_6-50	50	6	6	81315.4	81315.4	1.48%	1.02	0.29	1.31	56.74	15	3	58.05	TCHSLT
AAB0012_6-50	50	6	12	149169.8	149169.8	0.95%	2.13	1.21	3.35	176.17	42	7	179.53	TCHSLT
AAB0112_6-50	50	6	12	151564.4	151564.4	0.71%	2.01	0.79	2.81	152.37	36	6	155.18	TCHSLT
AAB0212_6-50	50	6	12	156977.7	156977.7	1.00%	2.06	1.89	3.96	223.38	42	7	227.35	TCHSLT
AAB0312_6-50	50	6	12	155210.3	155210.3	1.00%	2.10	0.85	2.96	254.34	54	9	257.30	TCHSLT
AAB0412_6-50	50	6	12	162944.6	162944.6	1.10%	2.44	1.47	3.92	179.82	42	7	183.75	TCHSLT
AAB0512_6-50	50	6	12	161530.0	161530.0	1.48%	2.72	1.09	3.82	170.77	36	6	174.60	TCHSLT
AAB0612_6-50	50	6	12	153226.0	153226.0	2.08%	2.39	1.64	4.04	332.32	54	9	336.36	TCHSLT
AAB0712_6-50	50	6	12	159054.8	159054.8	0.78%	2.04	1.19	3.23	155.26	36	6	158.51	TCHSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0812_6-50	50	6	12	146556.8	146556.8	0.93%	2.17	1.98	4.15	128.17	36	6	132.33	TCHSLT
AAB0912_6-50	50	6	12	154548.7	154548.7	0.88%	1.95	0.54	2.49	139.00	36	6	141.50	TCHSLT
AAB0018_6-50	50	6	18	219440.0	219440.0	0.83%	3.81	2.15	5.97	206.10	40	5	212.08	TCHSLT
AAB0118_6-50	50	6	18	222362.6	222362.6	0.77%	4.06	2.92	6.98	335.03	72	9	342.02	TCHSLT
AAB0218_6-50	50	6	18	229201.3	229201.3	1.28%	4.16	3.63	7.79	575.75	88	11	583.56	TCHSLT
AAB0318_6-50	50	6	18	229001.0	229001.0	0.70%	4.04	1.14	5.20	391.99	64	8	397.19	TCHSLT
AAB0418_6-50	50	6	18	241180.8	241287.9	1.06%	4.83	2.53	7.37	600.02	70	9	607.40	TCHSLT
AAB0518_6-50	50	6	18	231124.1	231124.1	1.25%	4.38	1.47	5.87	284.20	48	6	290.07	TCHSLT
AAB0618_6-50	50	6	18	224544.4	224995.0	1.27%	5.29	3.02	8.33	600.02	68	9	608.36	TCHSLT
AAB0718_6-50	50	6	18	232670.9	232670.9	0.67%	3.14	2.42	5.57	273.44	56	7	279.02	TCHSLT
AAB0818_6-50	50	6	18	220140.7	220140.7	1.46%	4.00	2.47	6.48	312.94	40	5	319.43	TCHSLT
AAB0918_6-50	50	6	18	227545.6	227545.6	0.86%	4.21	1.99	6.22	402.95	64	8	409.17	TCHSLT
ABA006_2-6	6	2	6	8174.3	8174.3	0.00%	0.09	0.02	0.11	0.43	15	3	0.54	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%	0.09	0.01	0.11	0.37	25	5	0.48	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%	0.08	0.01	0.10	0.17	10	2	0.27	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%	0.09	0.02	0.11	0.27	15	3	0.38	TCLSHT
ABA046_2-6	6	2	6	7928.2	7928.2	0.14%	0.10	0.02	0.11	0.61	20	4	0.73	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%	0.06	0.02	0.08	0.16	15	3	0.24	TCLSHT
ABA066_2-6	6	2	6	8097.5	8097.5	0.54%	0.08	0.02	0.10	0.31	15	3	0.40	TCLSHT
ABA076_2-6	6	2	6	9140.0	9140.0	0.12%	0.09	0.02	0.10	0.40	20	4	0.51	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%	0.09	0.01	0.10	0.05	5	1	0.16	TCLSHT
ABA096_2-6	6	2	6	7104.4	7104.4	0.00%	0.06	0.02	0.08	0.13	15	3	0.21	TCLSHT
ABA0012_2-6	6	2	12	15603.0	15603.0	0.03%	0.22	0.03	0.25	1.41	24	4	1.66	TCLSHT
ABA0112_2-6	6	2	12	13424.2	13424.2	0.03%	0.17	0.02	0.19	0.51	18	3	0.70	TCLSHT
ABA0212_2-6	6	2	12	14724.3	14724.3	0.00%	0.20	0.04	0.24	0.56	12	2	0.80	TCLSHT
ABA0412_2-6	6	2	12	13850.3	13850.3	0.13%	0.30	0.03	0.33	2.20	30	5	2.54	TCLSHT
ABA0512_2-6	6	2	12	17403.2	17403.2	0.02%	0.16	0.03	0.18	0.51	18	3	0.70	TCLSHT
ABA0612_2-6	6	2	12	14950.6	14950.6	0.04%	0.11	0.03	0.14	0.55	18	3	0.69	TCLSHT
ABA0712_2-6	6	2	12	16627.8	16627.8	0.06%	0.21	0.03	0.24	0.60	18	3	0.84	TCLSHT
ABA0812_2-6	6	2	12	14162.9	14162.9	0.03%	0.13	0.03	0.16	0.59	18	3	0.75	TCLSHT
ABA0912_2-6	6	2	12	16127.2	16127.2	0.02%	0.11	0.02	0.13	0.44	18	3	0.57	TCLSHT
ABA0018_2-6	6	2	18	21818.2	21818.2	0.31%	0.46	0.03	0.50	5.34	32	4	5.84	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%	0.32	0.05	0.37	0.84	24	3	1.21	TCLSHT
ABA0218_2-6	6	2	18	22480.4	22480.4	0.05%	0.35	0.04	0.39	1.86	32	4	2.25	TCLSHT
ABA0418_2-6	6	2	18	20185.1	20185.1	0.05%	0.42	0.04	0.47	3.51	32	4	3.98	TCLSHT
ABA0518_2-6	6	2	18	25070.3	25070.3	0.06%	0.17	0.03	0.20	1.50	24	3	1.70	TCLSHT
ABA0618_2-6	6	2	18	22830.4	22830.4	0.11%	0.38	0.03	0.42	2.15	32	4	2.57	TCLSHT
ABA0718_2-6	6	2	18	24375.4	24375.4	0.00%	0.48	0.06	0.54	2.81	32	4	3.35	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%	0.28	0.03	0.31	2.76	40	5	3.08	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%	0.24	0.03	0.28	1.01	24	3	1.29	TCLSHT
ABA006_2-12	12	2	6	12675.6	12675.6	0.00%	0.11	0.03	0.14	0.26	15	3	0.40	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%	0.14	0.02	0.16	0.23	10	2	0.39	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%	0.14	0.02	0.16	0.28	15	3	0.45	TCLSHT
ABA036_2-12	12	2	6	16340.9	16340.9	0.00%	0.12	0.04	0.16	0.34	20	4	0.50	TCLSHT
ABA046_2-12	12	2	6	14200.4	14200.4	0.00%	0.13	0.01	0.14	0.17	10	2	0.31	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%	0.11	0.03	0.14	0.28	10	2	0.42	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%	0.10	0.02	0.13	0.31	15	3	0.44	TCLSHT
ABA076_2-12	12	2	6	15411.5	15411.5	0.05%	0.11	0.02	0.13	0.17	10	2	0.30	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%	0.12	0.02	0.15	0.46	15	3	0.61	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%	0.16	0.02	0.18	0.52	15	3	0.70	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%	0.17	0.03	0.21	0.93	24	4	1.14	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%	0.25	0.05	0.30	0.85	18	3	1.15	TCLSHT
ABA0212_2-12	12	2	12	27213.7	27213.7	0.09%	0.31	0.03	0.34	1.30	18	3	1.64	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%	0.24	0.03	0.28	1.25	24	4	1.53	TCLSHT
ABA0412_2-12	12	2	12	28351.5	28351.5	0.14%	0.26	0.03	0.29	1.94	24	4	2.24	TCLSHT
ABA0512_2-12	12	2	12	32083.1	32083.1	0.01%	0.23	0.03	0.26	1.04	24	4	1.30	TCLSHT
ABA0612_2-12	12	2	12	27236.8	27236.8	0.00%	0.20	0.06	0.27	0.85	18	3	1.12	TCLSHT
ABA0712_2-12	12	2	12	30400.7	30400.7	0.05%	0.19	0.03	0.22	1.11	18	3	1.33	TCLSHT
ABA0812_2-12	12	2	12	26691.1	26691.1	0.06%	0.25	0.03	0.28	0.99	18	3	1.27	TCLSHT
ABA0912_2-12	12	2	12	31075.1	31075.1	0.07%	0.31	0.03	0.34	3.59	24	4	3.94	TCLSHT
ABA0118_2-12	12	2	18	40447.3	40447.3	0.00%	0.83	0.07	0.90	2.90	24	3	3.80	TCLSHT
ABA0218_2-12	12	2	18	41722.8	41722.8	0.07%	0.82	0.07	0.90	7.45	16	2	8.34	TCLSHT
ABA0318_2-12	12	2	18	46264.4	46264.4	0.02%	0.46	0.04	0.50	3.88	24	3	4.38	TCLSHT
ABA0418_2-12	12	2	18	44169.3	44169.3	0.00%	0.37	0.05	0.42	2.66	24	3	3.08	TCLSHT
ABA0518_2-12	12	2	18	47324.8	47324.8	0.01%	0.35	0.07	0.42	3.72	32	4	4.14	TCLSHT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0618_2-12	12	2	18	40625.1	40625.1	0.00%	0.53	0.05	0.58	1.95	24	3	2.54	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%	0.27	0.05	0.32	2.55	32	4	2.87	TCLSHT
ABA0818_2-12	12	2	18	41316.5	41316.5	0.00%	0.52	0.07	0.59	3.02	24	3	3.62	TCLSHT
ABA0918_2-12	12	2	18	47364.8	47364.8	0.26%	0.54	0.06	0.60	10.10	16	2	10.71	TCLSHT
ABA006_2-25	25	2	6	29198.3	29198.3	0.02%	0.14	0.03	0.17	0.30	10	2	0.47	TCLSHT
ABA016_2-25	25	2	6	29917.1	29917.1	0.09%	0.21	0.02	0.23	0.59	10	2	0.82	TCLSHT
ABA026_2-25	25	2	6	28603.7	28603.7	0.09%	0.20	0.04	0.23	0.65	10	2	0.89	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%	0.17	0.05	0.22	0.50	15	3	0.73	TCLSHT
ABA046_2-25	25	2	6	31420.9	31420.9	0.03%	0.28	0.03	0.32	1.11	15	3	1.43	TCLSHT
ABA056_2-25	25	2	6	31510.0	31510.0	0.00%	0.26	0.04	0.29	0.60	10	2	0.89	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%	0.11	0.02	0.14	0.19	10	2	0.33	TCLSHT
ABA076_2-25	25	2	6	31327.3	31327.3	0.03%	0.20	0.04	0.24	0.75	15	3	1.00	TCLSHT
ABA086_2-25	25	2	6	32154.1	32154.1	0.01%	0.21	0.05	0.27	1.22	15	3	1.49	TCLSHT
ABA096_2-25	25	2	6	33239.4	33239.4	0.06%	0.22	0.03	0.25	0.66	10	2	0.91	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%	0.29	0.09	0.38	1.46	18	3	1.84	TCLSHT
ABA0112_2-25	25	2	12	60933.5	60933.5	0.01%	0.34	0.04	0.38	3.81	24	4	4.20	TCLSHT
ABA0212_2-25	25	2	12	56248.7	56248.7	0.03%	0.52	0.05	0.57	2.94	24	4	3.52	TCLSHT
ABA0312_2-25	25	2	12	59208.1	59208.1	0.03%	0.38	0.06	0.44	4.23	24	4	4.68	TCLSHT
ABA0412_2-25	25	2	12	59680.6	59680.6	0.01%	0.45	0.04	0.49	3.28	24	4	3.77	TCLSHT
ABA0512_2-25	25	2	12	65037.1	65037.1	0.10%	0.54	0.06	0.61	8.68	24	4	9.29	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%	0.15	0.04	0.20	0.47	12	2	0.67	TCLSHT
ABA0712_2-25	25	2	12	62779.4	62779.4	0.04%	0.52	0.06	0.58	2.57	12	2	3.15	TCLSHT
ABA0812_2-25	25	2	12	62881.1	62881.1	0.02%	0.51	0.05	0.56	20.29	36	6	20.85	TCLSHT
ABA0912_2-25	25	2	12	63990.8	63990.8	0.02%	0.39	0.05	0.45	3.33	18	3	3.78	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%	0.37	0.07	0.44	1.03	16	2	1.47	TCLSHT
ABA0118_2-25	25	2	18	88583.6	88583.6	0.00%	0.70	0.11	0.81	7.06	24	3	7.87	TCLSHT
ABA0218_2-25	25	2	18	83284.8	83284.8	0.07%	0.96	0.07	1.03	9.20	24	3	10.23	TCLSHT
ABA0318_2-25	25	2	18	91361.4	91361.4	0.03%	0.51	0.06	0.57	11.42	32	4	11.99	TCLSHT
ABA0418_2-25	25	2	18	90616.7	90616.7	0.03%	0.66	0.08	0.74	3.90	16	2	4.64	TCLSHT
ABA0518_2-25	25	2	18	95118.0	95118.0	0.11%	0.92	0.13	1.04	38.02	24	3	39.07	TCLSHT
ABA0618_2-25	25	2	18	83556.7	83556.7	0.02%	0.30	0.07	0.37	2.31	24	3	2.69	TCLSHT
ABA0718_2-25	25	2	18	92163.4	92163.4	0.02%	1.05	0.07	1.12	7.42	16	2	8.54	TCLSHT
ABA0818_2-25	25	2	18	91545.0	91545.0	0.09%	1.18	0.14	1.32	25.73	24	3	27.05	TCLSHT
ABA0918_2-25	25	2	18	93152.4	93152.4	0.02%	0.60	0.08	0.68	8.71	24	3	9.39	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%	0.25	0.04	0.29	0.70	10	2	0.99	TCLSHT
ABA016_2-50	50	2	6	60308.0	60308.0	0.01%	0.27	0.07	0.33	0.82	15	3	1.16	TCLSHT
ABA026_2-50	50	2	6	56150.4	56150.4	0.02%	0.39	0.05	0.45	2.37	15	3	2.82	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%	0.32	0.04	0.35	0.89	15	3	1.24	TCLSHT
ABA046_2-50	50	2	6	60915.0	60915.0	0.05%	0.41	0.05	0.46	2.07	10	2	2.54	TCLSHT
ABA056_2-50	50	2	6	59362.1	59362.1	0.03%	0.30	0.03	0.33	1.36	15	3	1.69	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%	0.33	0.07	0.40	1.22	15	3	1.62	TCLSHT
ABA076_2-50	50	2	6	58961.9	58961.9	0.01%	0.30	0.05	0.35	1.77	10	2	2.13	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%	0.33	0.06	0.38	1.27	15	3	1.66	TCLSHT
ABA096_2-50	50	2	6	60666.9	60666.9	0.00%	0.33	0.03	0.36	0.78	10	2	1.14	TCLSHT
ABA0012_2-50	50	2	12	117314.5	117314.5	0.00%	0.42	0.10	0.52	2.56	24	4	3.09	TCLSHT
ABA0112_2-50	50	2	12	119907.3	119907.3	0.02%	0.51	0.13	0.64	4.35	24	4	4.99	TCLSHT
ABA0212_2-50	50	2	12	114060.9	114060.9	0.00%	0.92	0.09	1.01	5.75	18	3	6.77	TCLSHT
ABA0312_2-50	50	2	12	119956.5	119956.5	0.02%	0.60	0.09	0.69	1.84	12	2	2.53	TCLSHT
ABA0412_2-50	50	2	12	122251.4	122251.4	0.03%	0.86	0.09	0.96	5.32	12	2	6.28	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%	0.42	0.09	0.51	1.47	12	2	1.98	TCLSHT
ABA0612_2-50	50	2	12	113649.2	113649.2	0.01%	0.40	0.15	0.55	1.75	18	3	2.31	TCLSHT
ABA0712_2-50	50	2	12	114728.6	114728.6	0.01%	0.58	0.07	0.65	10.79	12	2	11.44	TCLSHT
ABA0812_2-50	50	2	12	115427.6	115427.6	0.02%	0.82	0.09	0.92	5.84	18	3	6.76	TCLSHT
ABA0912_2-50	50	2	12	122430.5	122430.5	0.01%	0.54	0.07	0.61	4.47	18	3	5.09	TCLSHT
ABA0018_2-50	50	2	18	175781.2	175781.2	0.00%	0.58	0.16	0.74	3.10	16	2	3.84	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%	0.56	0.13	0.70	4.02	24	3	4.71	TCLSHT
ABA0218_2-50	50	2	18	169735.9	169735.9	0.01%	1.33	0.16	1.50	8.75	24	3	10.25	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%	0.70	0.11	0.81	4.58	16	2	5.39	TCLSHT
ABA0418_2-50	50	2	18	182048.8	182048.8	0.07%	1.52	0.43	1.96	109.91	48	6	111.89	TCLSHT
ABA0518_2-50	50	2	18	181079.7	181079.7	0.00%	0.86	0.16	1.02	12.62	24	3	13.65	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%	0.90	0.08	0.98	7.04	32	4	8.02	TCLSHT
ABA0718_2-50	50	2	18	172462.2	172462.2	0.00%	0.79	0.15	0.95	8.32	24	3	9.27	TCLSHT
ABA0818_2-50	50	2	18	173619.2	173619.2	0.02%	1.33	0.11	1.44	10.89	24	3	12.34	TCLSHT
ABA0918_2-50	50	2	18	182991.0	182991.0	0.02%	1.24	0.16	1.40	16.04	24	3	17.44	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%	0.11	0.04	0.15	0.43	20	4	0.58	TCLSHT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%	0.14	0.06	0.20	0.94	20	4	1.14	TCLSHT
ABA026_4-6	6	4	6	7336.3	7336.3	0.03%	0.12	0.03	0.15	0.37	15	3	0.52	TCLSHT
ABA036_4-6	6	4	6	6716.7	6716.7	0.25%	0.13	0.04	0.17	0.47	20	4	0.64	TCLSHT
ABA046_4-6	6	4	6	5570.7	5570.7	0.31%	0.08	0.03	0.11	0.31	15	3	0.42	TCLSHT
ABA056_4-6	6	4	6	7908.4	7908.4	0.01%	0.16	0.05	0.21	1.63	20	4	1.84	TCLSHT
ABA066_4-6	6	4	6	6397.3	6397.3	0.47%	0.13	0.03	0.17	0.23	10	2	0.40	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%	0.09	0.02	0.11	0.13	10	2	0.24	TCLSHT
ABA086_4-6	6	4	6	5858.9	5858.9	0.00%	0.13	0.04	0.17	0.33	15	3	0.50	TCLSHT
ABA096_4-6	6	4	6	8598.5	8598.5	0.54%	0.12	0.02	0.14	0.47	15	3	0.61	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%	0.20	0.04	0.23	0.47	18	3	0.70	TCLSHT
ABA0112_4-6	6	4	12	15297.2	15297.2	0.19%	0.30	0.10	0.41	1.68	18	3	2.10	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%	0.38	0.06	0.43	1.36	24	4	1.80	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%	0.29	0.07	0.36	0.93	18	3	1.29	TCLSHT
ABA0412_4-6	6	4	12	12869.8	12869.8	0.04%	0.34	0.08	0.42	4.10	30	5	4.51	TCLSHT
ABA0512_4-6	6	4	12	15872.1	15872.1	0.35%	0.32	0.07	0.39	3.30	18	3	3.69	TCLSHT
ABA0612_4-6	6	4	12	12744.8	12744.8	0.00%	0.34	0.07	0.41	0.67	18	3	1.09	TCLSHT
ABA0712_4-6	6	4	12	14690.0	14690.0	0.03%	0.28	0.05	0.33	0.96	24	4	1.29	TCLSHT
ABA0812_4-6	6	4	12	12361.3	12361.3	0.00%	0.31	0.07	0.39	1.49	24	4	1.87	TCLSHT
ABA0912_4-6	6	4	12	14845.8	14845.8	0.00%	0.38	0.04	0.43	0.65	18	3	1.08	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%	0.93	0.09	1.03	5.16	48	6	6.19	TCLSHT
ABA0118_4-6	6	4	18	21742.1	21742.1	0.04%	0.76	0.16	0.93	4.14	24	3	5.07	TCLSHT
ABA0218_4-6	6	4	18	21436.3	21436.3	0.02%	0.67	0.09	0.76	3.16	24	3	3.92	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%	0.68	0.09	0.77	2.60	24	3	3.38	TCLSHT
ABA0418_4-6	6	4	18	19960.4	19960.4	0.13%	0.62	0.07	0.69	4.11	32	4	4.81	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.10%	0.68	0.09	0.77	20.03	40	5	20.80	TCLSHT
ABA0618_4-6	6	4	18	19767.0	19767.0	0.00%	0.86	0.14	1.00	3.42	24	3	4.43	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%	0.66	0.05	0.71	2.24	32	4	2.96	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%	0.50	0.06	0.56	1.79	24	3	2.35	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%	0.71	0.07	0.78	1.77	24	3	2.55	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%	0.18	0.03	0.22	0.61	10	2	0.83	TCLSHT
ABA016_4-12	12	4	6	15440.0	15440.0	0.00%	0.27	0.04	0.31	2.04	15	3	2.35	TCLSHT
ABA026_4-12	12	4	6	13157.6	13157.6	0.00%	0.13	0.02	0.16	0.56	15	3	0.72	TCLSHT
ABA036_4-12	12	4	6	12343.4	12343.4	0.02%	0.22	0.05	0.27	1.30	15	3	1.57	TCLSHT
ABA046_4-12	12	4	6	14388.0	14388.0	0.08%	0.18	0.04	0.22	0.60	15	3	0.82	TCLSHT
ABA056_4-12	12	4	6	14190.5	14190.5	0.05%	0.14	0.03	0.17	1.13	10	2	1.31	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%	0.16	0.04	0.20	0.22	10	2	0.42	TCLSHT
ABA076_4-12	12	4	6	12495.8	12495.8	0.12%	0.19	0.04	0.23	0.48	10	2	0.72	TCLSHT
ABA086_4-12	12	4	6	14701.0	14701.0	0.01%	0.15	0.03	0.18	0.71	15	3	0.89	TCLSHT
ABA096_4-12	12	4	6	13305.7	13305.7	0.26%	0.19	0.04	0.23	2.37	15	3	2.60	TCLSHT
ABA0012_4-12	12	4	12	24784.0	24784.0	0.12%	0.36	0.12	0.48	4.99	30	5	5.47	TCLSHT
ABA0112_4-12	12	4	12	28662.5	28662.5	0.19%	0.81	0.08	0.89	9.02	24	4	9.92	TCLSHT
ABA0212_4-12	12	4	12	26529.0	26529.0	0.01%	0.43	0.09	0.51	4.82	30	5	5.33	TCLSHT
ABA0312_4-12	12	4	12	25466.3	25466.3	0.01%	0.37	0.06	0.43	3.42	24	4	3.85	TCLSHT
ABA0412_4-12	12	4	12	27373.1	27373.1	0.02%	0.41	0.06	0.47	3.53	24	4	4.00	TCLSHT
ABA0512_4-12	12	4	12	27965.0	27965.0	0.15%	0.37	0.08	0.45	5.62	24	4	6.08	TCLSHT
ABA0612_4-12	12	4	12	24647.5	24647.5	0.13%	0.19	0.06	0.26	0.77	12	2	1.03	TCLSHT
ABA0712_4-12	12	4	12	26378.1	26378.1	0.09%	0.41	0.08	0.49	5.79	18	3	6.28	TCLSHT
ABA0812_4-12	12	4	12	28141.0	28141.0	0.00%	0.45	0.04	0.50	2.06	24	4	2.56	TCLSHT
ABA0912_4-12	12	4	12	28646.9	28646.9	0.19%	0.51	0.10	0.61	15.69	30	5	16.30	TCLSHT
ABA0018_4-12	12	4	18	38443.7	38443.7	0.21%	0.74	0.11	0.86	34.75	24	3	35.61	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.27%	1.59	0.32	1.91	52.28	32	4	54.19	TCLSHT
ABA0218_4-12	12	4	18	39454.4	39454.4	0.00%	0.55	0.07	0.63	9.72	32	4	10.35	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.01%	0.79	0.08	0.87	8.31	24	3	9.18	TCLSHT
ABA0418_4-12	12	4	18	40777.9	40777.9	0.03%	0.67	0.09	0.77	11.16	32	4	11.93	TCLSHT
ABA0518_4-12	12	4	18	41139.8	41139.8	0.04%	0.53	0.19	0.72	4.68	16	2	5.40	TCLSHT
ABA0618_4-12	12	4	18	37160.0	37160.0	0.00%	0.45	0.06	0.52	2.30	24	3	2.82	TCLSHT
ABA0718_4-12	12	4	18	41278.9	41278.9	0.11%	0.64	0.12	0.77	25.81	40	5	26.58	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%	0.71	0.07	0.78	5.17	24	3	5.95	TCLSHT
ABA0918_4-12	12	4	18	41702.9	41702.9	0.23%	1.13	0.19	1.33	41.41	32	4	42.74	TCLSHT
ABA006_4-25	25	4	6	25598.9	25598.9	0.00%	0.29	0.04	0.34	2.44	20	4	2.78	TCLSHT
ABA016_4-25	25	4	6	29516.4	29516.4	0.06%	0.24	0.04	0.29	1.48	15	3	1.77	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%	0.34	0.04	0.38	3.17	15	3	3.56	TCLSHT
ABA036_4-25	25	4	6	26044.5	26044.5	0.04%	0.27	0.06	0.34	4.69	20	4	5.02	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%	0.18	0.05	0.22	0.53	10	2	0.75	TCLSHT
ABA056_4-25	25	4	6	30191.7	30191.7	0.09%	0.25	0.05	0.31	1.62	15	3	1.93	TCLSHT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA066_4-25	25	4	6	25382.8	25382.8	0.02%	0.23	0.03	0.27	0.85	15	3	1.12	TCLSHT
ABA076_4-25	25	4	6	27079.5	27079.5	0.04%	0.34	0.03	0.38	2.16	10	2	2.54	TCLSHT
ABA086_4-25	25	4	6	26279.4	26279.4	0.06%	0.24	0.05	0.29	0.93	15	3	1.22	TCLSHT
ABA096_4-25	25	4	6	27977.3	27977.3	0.07%	0.33	0.03	0.35	2.90	15	3	3.25	TCLSHT
ABA0012_4-25	25	4	12	53757.2	53757.2	0.04%	0.95	0.15	1.10	14.02	24	4	15.12	TCLSHT
ABA0112_4-25	25	4	12	56377.6	56377.6	0.02%	0.49	0.08	0.57	3.17	18	3	3.74	TCLSHT
ABA0212_4-25	25	4	12	53363.7	53363.7	0.11%	0.55	0.10	0.64	17.78	30	5	18.43	TCLSHT
ABA0312_4-25	25	4	12	54115.3	54115.3	0.00%	0.57	0.36	0.93	6.60	12	2	7.54	TCLSHT
ABA0412_4-25	25	4	12	54969.9	54969.9	0.01%	0.44	0.11	0.55	3.65	18	3	4.20	TCLSHT
ABA0512_4-25	25	4	12	57168.0	57168.0	0.07%	0.38	0.11	0.49	8.61	18	3	9.09	TCLSHT
ABA0612_4-25	25	4	12	50721.7	50721.7	0.02%	0.30	0.08	0.39	1.67	12	2	2.05	TCLSHT
ABA0712_4-25	25	4	12	55616.6	55616.6	0.12%	0.68	0.09	0.77	14.01	12	2	14.78	TCLSHT
ABA0812_4-25	25	4	12	54119.6	54119.6	0.01%	0.51	0.08	0.59	4.22	12	2	4.81	TCLSHT
ABA0912_4-25	25	4	12	54984.7	54984.7	0.13%	0.72	0.11	0.83	23.77	18	3	24.60	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.05%	1.67	0.16	1.83	25.27	24	3	27.10	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%	0.92	0.13	1.05	7.08	24	3	8.14	TCLSHT
ABA0218_4-25	25	4	18	80988.5	80988.5	0.08%	0.87	0.10	0.97	54.81	32	4	55.79	TCLSHT
ABA0318_4-25	25	4	18	80514.6	80514.6	0.06%	1.13	0.09	1.23	20.34	24	3	21.57	TCLSHT
ABA0418_4-25	25	4	18	83335.2	83335.2	0.00%	0.65	0.10	0.76	3.43	24	3	4.19	TCLSHT
ABA0518_4-25	25	4	18	84472.4	84472.4	0.09%	0.84	0.25	1.10	23.09	24	3	24.19	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%	0.70	0.12	0.82	5.85	32	4	6.68	TCLSHT
ABA0718_4-25	25	4	18	82730.2	82730.2	0.12%	1.56	0.19	1.76	33.56	16	2	35.32	TCLSHT
ABA0818_4-25	25	4	18	78520.8	78520.8	0.00%	1.14	0.10	1.25	6.75	16	2	8.00	TCLSHT
ABA0918_4-25	25	4	18	82442.8	82442.8	0.07%	1.33	0.09	1.43	45.44	32	4	46.87	TCLSHT
ABA006_4-50	50	4	6	54643.6	54643.6	0.00%	0.41	0.06	0.47	1.90	20	4	2.37	TCLSHT
ABA016_4-50	50	4	6	55415.2	55415.2	0.02%	0.45	0.06	0.51	1.97	20	4	2.48	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%	0.41	0.08	0.50	1.40	10	2	1.90	TCLSHT
ABA036_4-50	50	4	6	55308.7	55308.7	0.08%	0.49	0.10	0.59	5.32	15	3	5.91	TCLSHT
ABA046_4-50	50	4	6	56931.4	56931.4	0.03%	0.53	0.07	0.60	7.74	10	2	8.34	TCLSHT
ABA056_4-50	50	4	6	57385.4	57385.4	0.01%	0.33	0.07	0.40	1.77	10	2	2.17	TCLSHT
ABA066_4-50	50	4	6	52880.3	52880.3	0.02%	0.52	0.08	0.61	1.83	10	2	2.44	TCLSHT
ABA076_4-50	50	4	6	51697.5	51697.5	0.03%	0.41	0.08	0.50	3.97	15	3	4.48	TCLSHT
ABA086_4-50	50	4	6	52932.3	52932.3	0.02%	0.39	0.08	0.47	2.93	10	2	3.40	TCLSHT
ABA096_4-50	50	4	6	60180.8	60180.8	0.03%	0.43	0.07	0.50	4.03	15	3	4.53	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.02%	1.00	0.11	1.11	23.24	24	4	24.36	TCLSHT
ABA0112_4-50	50	4	12	108467.3	108467.3	0.00%	0.70	0.13	0.84	5.13	24	4	5.98	TCLSHT
ABA0212_4-50	50	4	12	108019.5	108019.5	0.00%	1.00	0.11	1.12	8.44	30	5	9.56	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.02%	1.16	0.10	1.27	8.73	12	2	10.00	TCLSHT
ABA0412_4-50	50	4	12	109700.4	109700.4	0.04%	1.06	0.23	1.30	30.10	18	3	31.40	TCLSHT
ABA0512_4-50	50	4	12	112016.2	112016.2	0.00%	0.57	0.08	0.66	2.11	12	2	2.77	TCLSHT
ABA0612_4-50	50	4	12	104015.9	104015.9	0.00%	0.74	0.10	0.85	2.69	18	3	3.54	TCLSHT
ABA0712_4-50	50	4	12	106654.4	106654.4	0.06%	1.07	0.13	1.21	16.73	12	2	17.95	TCLSHT
ABA0812_4-50	50	4	12	106539.7	106539.7	0.03%	0.55	0.16	0.71	6.14	24	4	6.85	TCLSHT
ABA0912_4-50	50	4	12	114394.3	114394.3	0.01%	0.87	0.11	0.98	8.46	24	4	9.45	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%	1.91	0.24	2.15	21.86	24	3	24.02	TCLSHT
ABA0118_4-50	50	4	18	161812.6	161812.6	0.00%	1.29	0.20	1.50	17.01	32	4	18.51	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%	1.89	0.19	2.09	12.50	16	2	14.60	TCLSHT
ABA0318_4-50	50	4	18	163387.8	163387.8	0.05%	2.02	0.20	2.22	53.12	32	4	55.34	TCLSHT
ABA0418_4-50	50	4	18	166579.9	166579.9	0.05%	2.28	0.32	2.61	77.93	24	3	80.54	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%	1.00	0.19	1.20	9.55	24	3	10.76	TCLSHT
ABA0618_4-50	50	4	18	156359.0	156359.0	0.00%	1.35	0.25	1.60	16.59	24	3	18.20	TCLSHT
ABA0718_4-50	50	4	18	161780.6	161780.6	0.06%	2.07	0.19	2.26	77.55	32	4	79.81	TCLSHT
ABA0818_4-50	50	4	18	157354.6	157354.6	0.00%	0.89	0.23	1.13	6.59	24	3	7.73	TCLSHT
ABA0918_4-50	50	4	18	168526.1	168526.1	0.00%	1.16	0.17	1.34	11.09	16	2	12.43	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%	0.13	0.05	0.18	0.14	10	2	0.32	TCLSHT
ABA016_6-6	6	6	6	7298.8	7298.8	0.00%	0.24	0.13	0.37	1.30	20	4	1.68	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%	0.12	0.09	0.21	0.31	15	3	0.53	TCLSHT
ABA036_6-6	6	6	6	7413.1	7413.1	0.00%	0.14	0.09	0.23	0.39	15	3	0.62	TCLSHT
ABA046_6-6	6	6	6	8165.5	8165.5	0.13%	0.21	0.19	0.40	0.55	10	2	0.95	TCLSHT
ABA056_6-6	6	6	6	8039.1	8039.1	0.02%	0.16	0.06	0.22	0.84	20	4	1.06	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%	0.13	0.05	0.17	0.77	25	5	0.95	TCLSHT
ABA076_6-6	6	6	6	7774.7	7774.7	0.00%	0.17	0.10	0.27	0.47	15	3	0.74	TCLSHT
ABA086_6-6	6	6	6	6714.9	6714.9	0.00%	0.17	0.14	0.31	0.52	15	3	0.83	TCLSHT
ABA096_6-6	6	6	6	7551.8	7551.8	0.00%	0.21	0.08	0.28	0.77	20	4	1.05	TCLSHT
ABA0012_6-6	6	6	12	12141.4	12141.4	0.04%	0.24	0.09	0.33	0.55	18	3	0.88	TCLSHT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0112_6-6	6	6	12	14299.5	14299.5	0.04%	0.49	0.23	0.72	1.78	18	3	2.51	TCLSHT
ABA0212_6-6	6	6	12	14336.7	14336.7	0.05%	0.63	0.19	0.83	1.96	30	5	2.79	TCLSHT
ABA0312_6-6	6	6	12	14852.0	14852.0	0.10%	0.47	0.13	0.60	1.30	18	3	1.91	TCLSHT
ABA0412_6-6	6	6	12	15055.7	15055.7	0.07%	0.55	0.21	0.76	2.06	18	3	2.82	TCLSHT
ABA0512_6-6	6	6	12	14752.5	14752.5	0.10%	0.27	0.12	0.40	1.59	18	3	1.99	TCLSHT
ABA0612_6-6	6	6	12	12767.0	12767.0	0.00%	0.40	0.06	0.47	2.88	18	3	3.34	TCLSHT
ABA0712_6-6	6	6	12	15302.5	15302.5	0.07%	0.72	0.21	0.93	1.23	18	3	2.16	TCLSHT
ABA0812_6-6	6	6	12	12633.6	12633.6	0.13%	0.55	0.19	0.74	1.45	24	4	2.19	TCLSHT
ABA0912_6-6	6	6	12	14371.3	14371.3	0.23%	0.51	0.20	0.71	3.02	24	4	3.73	TCLSHT
ABA0018_6-6	6	6	18	17952.6	17952.6	0.01%	0.55	0.16	0.71	0.96	24	3	1.67	TCLSHT
ABA0218_6-6	6	6	18	20075.8	20075.8	0.01%	1.20	0.33	1.53	2.39	16	2	3.92	TCLSHT
ABA0318_6-6	6	6	18	20680.1	20680.1	0.05%	0.85	0.16	1.01	3.91	32	4	4.92	TCLSHT
ABA0418_6-6	6	6	18	22435.7	22435.7	0.00%	1.39	0.55	1.95	8.27	40	5	10.23	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%	0.57	0.32	0.89	5.14	32	4	6.03	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%	0.86	0.10	0.97	2.63	24	3	3.60	TCLSHT
ABA0718_6-6	6	6	18	22014.5	22014.5	0.02%	1.00	0.24	1.25	2.80	24	3	4.05	TCLSHT
ABA0818_6-6	6	6	18	20296.5	20296.5	0.19%	1.62	0.35	1.97	5.95	32	4	7.93	TCLSHT
ABA0918_6-6	6	6	18	21702.5	21702.5	0.00%	1.10	0.29	1.40	8.50	32	4	9.90	TCLSHT
ABA006_6-12	12	6	6	12812.5	12812.5	0.00%	0.21	0.07	0.28	1.16	15	3	1.45	TCLSHT
ABA016_6-12	12	6	6	13123.5	13123.5	0.08%	0.24	0.04	0.28	1.41	15	3	1.69	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%	0.16	0.05	0.21	1.04	20	4	1.26	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%	0.18	0.06	0.25	0.26	10	2	0.51	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%	0.19	0.04	0.24	0.87	20	4	1.11	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%	0.17	0.06	0.23	0.88	20	4	1.10	TCLSHT
ABA066_6-12	12	6	6	11724.7	11724.7	0.19%	0.22	0.14	0.36	0.84	15	3	1.20	TCLSHT
ABA076_6-12	12	6	6	13602.8	13602.8	0.22%	0.24	0.06	0.31	3.72	25	5	4.03	TCLSHT
ABA086_6-12	12	6	6	13469.7	13469.7	0.00%	0.30	0.05	0.36	1.96	20	4	2.32	TCLSHT
ABA096_6-12	12	6	6	14421.5	14421.5	0.12%	0.28	0.08	0.36	3.13	15	3	3.50	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%	0.59	0.17	0.76	2.47	18	3	3.23	TCLSHT
ABA0112_6-12	12	6	12	25698.4	25698.4	0.00%	0.49	0.15	0.64	4.10	18	3	4.74	TCLSHT
ABA0212_6-12	12	6	12	24232.1	24232.1	0.05%	0.43	0.18	0.61	22.24	24	4	22.84	TCLSHT
ABA0312_6-12	12	6	12	26601.8	26601.8	0.05%	0.44	0.25	0.69	2.96	24	4	3.65	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%	0.33	0.12	0.45	2.43	24	4	2.88	TCLSHT
ABA0512_6-12	12	6	12	26371.5	26371.5	0.19%	0.77	0.10	0.87	7.56	24	4	8.44	TCLSHT
ABA0612_6-12	12	6	12	23645.7	23645.7	0.03%	0.64	0.08	0.72	6.22	30	5	6.94	TCLSHT
ABA0712_6-12	12	6	12	28111.9	28111.9	0.03%	0.63	0.14	0.77	23.57	24	4	24.35	TCLSHT
ABA0812_6-12	12	6	12	25974.9	25974.9	0.20%	0.71	0.30	1.02	10.37	18	3	11.39	TCLSHT
ABA0912_6-12	12	6	12	27430.5	27430.5	0.02%	0.62	0.27	0.89	6.91	24	4	7.80	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%	1.28	0.09	1.37	12.02	32	4	13.40	TCLSHT
ABA0118_6-12	12	6	18	41270.3	41270.3	0.07%	1.10	0.12	1.22	15.04	32	4	16.27	TCLSHT
ABA0218_6-12	12	6	18	36881.3	36881.3	0.00%	0.96	0.13	1.09	15.14	24	3	16.23	TCLSHT
ABA0318_6-12	12	6	18	38518.2	38518.2	0.01%	0.89	0.15	1.04	10.81	32	4	11.85	TCLSHT
ABA0418_6-12	12	6	18	37127.4	37127.4	0.00%	0.75	0.08	0.83	5.52	24	3	6.35	TCLSHT
ABA0518_6-12	12	6	18	40634.2	40634.2	0.02%	0.80	0.16	0.97	13.13	32	4	14.10	TCLSHT
ABA0618_6-12	12	6	18	37432.6	37432.6	0.03%	1.54	0.15	1.70	17.61	24	3	19.31	TCLSHT
ABA0718_6-12	12	6	18	41590.9	41590.9	0.20%	1.70	0.14	1.84	35.99	24	3	37.83	TCLSHT
ABA0818_6-12	12	6	18	39535.3	39535.3	0.28%	1.70	0.23	1.93	91.11	40	5	93.04	TCLSHT
ABA0918_6-12	12	6	18	41320.6	41320.6	0.03%	1.15	0.42	1.58	22.81	24	3	24.40	TCLSHT
ABA006_6-25	25	6	6	25664.9	25664.9	0.02%	0.36	0.08	0.44	5.72	10	2	6.16	TCLSHT
ABA016_6-25	25	6	6	25434.6	25434.6	0.12%	0.49	0.06	0.56	9.95	15	3	10.51	TCLSHT
ABA026_6-25	25	6	6	26791.9	26791.9	0.00%	0.26	0.04	0.31	4.12	20	4	4.43	TCLSHT
ABA036_6-25	25	6	6	26825.5	26825.5	0.04%	0.46	0.12	0.58	16.05	15	3	16.63	TCLSHT
ABA046_6-25	25	6	6	28538.6	28538.6	0.10%	0.56	0.15	0.71	13.43	15	3	14.14	TCLSHT
ABA056_6-25	25	6	6	26294.8	26294.8	0.03%	0.53	0.17	0.71	12.77	20	4	13.48	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%	0.25	0.09	0.35	1.61	15	3	1.96	TCLSHT
ABA076_6-25	25	6	6	27981.4	27981.4	0.03%	0.35	0.12	0.48	5.94	25	5	6.42	TCLSHT
ABA086_6-25	25	6	6	26667.2	26667.2	0.00%	0.40	0.08	0.49	4.34	15	3	4.84	TCLSHT
ABA096_6-25	25	6	6	26356.7	26356.7	0.05%	0.36	0.08	0.44	2.97	20	4	3.41	TCLSHT
ABA0012_6-25	25	6	12	52460.6	52460.6	0.10%	1.09	0.12	1.21	25.94	18	3	27.15	TCLSHT
ABA0112_6-25	25	6	12	52641.9	52641.9	0.13%	1.03	0.12	1.15	64.29	30	5	65.45	TCLSHT
ABA0212_6-25	25	6	12	53997.3	53997.3	0.01%	0.63	0.09	0.72	15.56	30	5	16.28	TCLSHT
ABA0312_6-25	25	6	12	52446.7	52446.7	0.16%	1.17	0.20	1.37	29.68	18	3	31.05	TCLSHT
ABA0412_6-25	25	6	12	56028.2	56028.2	0.17%	0.91	0.14	1.05	45.69	18	3	46.75	TCLSHT
ABA0512_6-25	25	6	12	51812.8	51812.8	0.06%	0.75	0.29	1.04	18.88	18	3	19.93	TCLSHT
ABA0612_6-25	25	6	12	50984.3	50984.3	0.00%	0.55	0.09	0.65	3.73	18	3	4.39	TCLSHT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0712_6-25	25	6	12	52745.0	52745.0	0.09%	1.01	0.15	1.17	21.80	24	4	22.97	TCLSHT
ABA0812_6-25	25	6	12	51202.5	51202.5	0.04%	0.90	0.12	1.03	9.49	18	3	10.52	TCLSHT
ABA0912_6-25	25	6	12	53578.4	53578.4	0.00%	0.75	0.14	0.90	10.71	18	3	11.61	TCLSHT
ABA0018_6-25	25	6	18	76422.9	76422.9	0.16%	1.68	0.23	1.91	125.83	32	4	127.74	TCLSHT
ABA0118_6-25	25	6	18	79411.2	79411.2	0.04%	2.08	0.18	2.27	44.23	24	3	46.50	TCLSHT
ABA0218_6-25	25	6	18	81688.0	81688.0	0.04%	2.11	0.18	2.29	47.24	40	5	49.54	TCLSHT
ABA0318_6-25	25	6	18	79831.4	79831.4	0.22%	2.30	0.51	2.82	207.71	40	5	210.53	TCLSHT
ABA0418_6-25	25	6	18	84932.3	84932.3	0.13%	1.76	0.22	1.99	104.68	24	3	106.68	TCLSHT
ABA0518_6-25	25	6	18	80993.7	80993.7	0.06%	1.26	0.26	1.52	55.02	24	3	56.55	TCLSHT
ABA0618_6-25	25	6	18	76313.5	76313.5	0.00%	1.17	0.22	1.40	11.64	32	4	13.04	TCLSHT
ABA0718_6-25	25	6	18	77697.9	77697.9	0.05%	1.69	0.13	1.82	32.12	24	3	33.94	TCLSHT
ABA0818_6-25	25	6	18	75133.4	75133.4	0.04%	1.55	0.18	1.74	31.07	32	4	32.81	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%	1.44	0.18	1.62	25.81	32	4	27.43	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%	0.54	0.11	0.65	8.29	15	3	8.95	TCLSHT
ABA016_6-50	50	6	6	50641.4	50641.4	0.00%	0.54	0.12	0.67	10.10	20	4	10.77	TCLSHT
ABA026_6-50	50	6	6	52187.7	52187.7	0.02%	0.75	0.10	0.85	26.55	15	3	27.40	TCLSHT
ABA036_6-50	50	6	6	51704.3	51704.3	0.04%	0.40	0.09	0.50	6.88	20	4	7.39	TCLSHT
ABA046_6-50	50	6	6	54020.2	54020.2	0.04%	0.70	0.26	0.96	14.46	25	5	15.43	TCLSHT
ABA056_6-50	50	6	6	52781.7	52781.7	0.05%	0.60	0.17	0.77	14.48	15	3	15.25	TCLSHT
ABA066_6-50	50	6	6	51976.5	51976.5	0.04%	0.69	0.14	0.84	26.36	15	3	27.21	TCLSHT
ABA076_6-50	50	6	6	54019.2	54019.2	0.03%	0.55	0.13	0.70	6.07	15	3	6.77	TCLSHT
ABA086_6-50	50	6	6	50875.2	50875.2	0.02%	0.62	0.16	0.78	28.91	20	4	29.70	TCLSHT
ABA096_6-50	50	6	6	50684.2	50684.2	0.02%	0.38	0.13	0.51	3.86	15	3	4.37	TCLSHT
ABA012_6-50	50	6	12	102508.4	102508.4	0.02%	1.50	0.28	1.79	30.20	24	4	31.99	TCLSHT
ABA0112_6-50	50	6	12	101549.5	101549.5	0.03%	1.29	0.21	1.50	19.90	12	2	21.41	TCLSHT
ABA0212_6-50	50	6	12	105146.4	105146.4	0.10%	1.85	0.23	2.09	69.36	18	3	71.46	TCLSHT
ABA0312_6-50	50	6	12	102577.1	102577.1	0.03%	1.42	0.19	1.61	17.24	24	4	18.86	TCLSHT
ABA0412_6-50	50	6	12	109767.5	109767.5	0.06%	1.37	0.31	1.68	26.67	12	2	28.35	TCLSHT
ABA0512_6-50	50	6	12	105402.9	105402.9	0.07%	1.26	0.17	1.44	37.00	18	3	38.44	TCLSHT
ABA0612_6-50	50	6	12	102025.6	102025.6	0.05%	2.01	0.31	2.33	39.18	18	3	41.51	TCLSHT
ABA0712_6-50	50	6	12	107578.2	107578.2	0.04%	1.27	0.17	1.45	26.95	18	3	28.41	TCLSHT
ABA0812_6-50	50	6	12	99897.4	99897.4	0.01%	1.23	0.35	1.59	23.23	18	3	24.82	TCLSHT
ABA0912_6-50	50	6	12	102325.2	102325.2	0.01%	1.31	0.34	1.65	26.65	18	3	28.31	TCLSHT
ABA0018_6-50	50	6	18	152832.8	152832.8	0.03%	3.22	0.51	3.75	61.96	16	2	65.71	TCLSHT
ABA0118_6-50	50	6	18	150963.8	150963.8	0.01%	3.14	0.50	3.65	57.26	32	4	60.92	TCLSHT
ABA0218_6-50	50	6	18	154508.0	154508.0	0.06%	2.34	0.46	2.81	54.94	16	2	57.76	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%	2.28	0.27	2.55	14.19	16	2	16.75	TCLSHT
ABA0418_6-50	50	6	18	164893.4	164893.4	0.07%	2.91	0.79	3.71	140.77	24	3	144.49	TCLSHT
ABA0518_6-50	50	6	18	155411.7	155411.7	0.06%	2.51	0.52	3.05	120.23	24	3	123.29	TCLSHT
ABA0618_6-50	50	6	18	154289.4	154289.4	0.07%	4.05	0.36	4.42	148.22	32	4	152.64	TCLSHT
ABA0718_6-50	50	6	18	159119.7	159119.7	0.02%	2.23	0.22	2.46	67.52	32	4	69.99	TCLSHT
ABA0818_6-50	50	6	18	151058.5	151058.5	0.02%	2.02	0.60	2.62	30.34	24	3	32.97	TCLSHT
ABA0918_6-50	50	6	18	154193.1	154193.1	0.03%	2.35	0.26	2.63	76.81	32	4	79.44	TCLSHT
ABB006_2-6	6	2	6	8233.3	8233.3	0.08%	0.13	0.02	0.15	0.35	15	3	0.50	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%	0.10	0.02	0.12	0.22	15	3	0.34	TCLSLT
ABB026_2-6	6	2	6	7157.4	7157.4	0.00%	0.11	0.01	0.13	0.25	10	2	0.37	TCLSLT
ABB046_2-6	6	2	6	8047.5	8047.5	0.20%	0.12	0.02	0.14	0.33	10	2	0.47	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%	0.08	0.02	0.10	0.11	10	2	0.21	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%	0.11	0.02	0.13	0.18	10	2	0.31	TCLSLT
ABB076_2-6	6	2	6	9232.4	9232.4	0.58%	0.09	0.02	0.11	0.18	10	2	0.29	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%	0.09	0.02	0.11	0.10	10	2	0.21	TCLSLT
ABB096_2-6	6	2	6	7152.1	7152.1	0.00%	0.06	0.02	0.09	0.25	20	4	0.38	TCLSLT
ABB0012_2-6	6	2	12	15719.6	15719.6	0.03%	0.34	0.03	0.36	2.03	30	5	2.40	TCLSLT
ABB0112_2-6	6	2	12	13461.1	13461.1	0.02%	0.20	0.02	0.23	0.55	18	3	0.78	TCLSLT
ABB0212_2-6	6	2	12	14997.5	14997.5	0.31%	0.21	0.03	0.24	1.81	30	5	2.05	TCLSLT
ABB0412_2-6	6	2	12	14162.7	14162.7	0.16%	0.33	0.04	0.37	1.71	24	4	2.08	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%	0.15	0.03	0.18	0.46	18	3	0.64	TCLSLT
ABB0612_2-6	6	2	12	15105.9	15105.9	0.14%	0.18	0.02	0.21	0.48	12	2	0.69	TCLSLT
ABB0712_2-6	6	2	12	16726.5	16726.5	0.08%	0.21	0.03	0.24	0.81	18	3	1.05	TCLSLT
ABB0812_2-6	6	2	12	14186.3	14186.3	0.00%	0.18	0.03	0.21	0.59	18	3	0.79	TCLSLT
ABB0912_2-6	6	2	12	16168.6	16168.6	0.06%	0.15	0.03	0.18	0.49	18	3	0.67	TCLSLT
ABB0018_2-6	6	2	18	22042.6	22042.6	0.43%	0.57	0.04	0.61	4.76	24	3	5.37	TCLSLT
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%	0.34	0.05	0.40	0.90	24	3	1.30	TCLSLT
ABB0218_2-6	6	2	18	22591.6	22591.6	0.00%	0.34	0.03	0.38	1.96	32	4	2.34	TCLSLT
ABB0418_2-6	6	2	18	20388.8	20388.8	0.00%	0.56	0.04	0.60	3.41	32	4	4.01	TCLSLT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0518_2-6	6	2	18	25198.4	25198.4	0.00%	0.24	0.05	0.30	3.19	40	5	3.49	TCLSLT
ABB0618_2-6	6	2	18	22957.3	22957.3	0.06%	0.42	0.04	0.46	2.08	32	4	2.54	TCLSLT
ABB0718_2-6	6	2	18	24521.1	24521.1	0.07%	0.51	0.04	0.56	3.87	32	4	4.42	TCLSLT
ABB0818_2-6	6	2	18	20972.6	20972.6	0.01%	0.34	0.05	0.39	2.04	24	3	2.44	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%	0.24	0.03	0.28	1.15	24	3	1.43	TCLSLT
ABB006_2-12	12	2	6	12756.1	12756.1	0.03%	0.13	0.02	0.15	0.24	10	2	0.39	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%	0.15	0.02	0.18	0.50	20	4	0.68	TCLSLT
ABB026_2-12	12	2	6	14417.9	14417.9	0.24%	0.19	0.02	0.21	0.88	20	4	1.09	TCLSLT
ABB036_2-12	12	2	6	16417.8	16417.8	0.14%	0.13	0.03	0.16	0.27	10	2	0.43	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%	0.16	0.02	0.18	0.45	15	3	0.63	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%	0.15	0.03	0.18	0.71	20	4	0.89	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%	0.12	0.02	0.14	0.49	15	3	0.63	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%	0.09	0.02	0.11	0.44	20	4	0.56	TCLSLT
ABB086_2-12	12	2	6	12982.3	12982.3	0.00%	0.15	0.02	0.18	0.48	10	2	0.66	TCLSLT
ABB096_2-12	12	2	6	16038.5	16038.5	0.04%	0.16	0.02	0.18	0.72	15	3	0.91	TCLSLT
ABB0012_2-12	12	2	12	26283.8	26283.8	0.00%	0.23	0.05	0.28	0.72	18	3	1.00	TCLSLT
ABB0112_2-12	12	2	12	27525.6	27525.6	0.06%	0.33	0.03	0.36	1.08	18	3	1.44	TCLSLT
ABB0212_2-12	12	2	12	27431.4	27431.4	0.15%	0.37	0.04	0.41	5.89	36	6	6.30	TCLSLT
ABB0312_2-12	12	2	12	31879.2	31879.2	0.09%	0.45	0.03	0.48	2.81	36	6	3.30	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%	0.27	0.03	0.30	1.39	24	4	1.69	TCLSLT
ABB0512_2-12	12	2	12	32212.1	32212.1	0.04%	0.29	0.03	0.32	1.40	18	3	1.72	TCLSLT
ABB0612_2-12	12	2	12	27359.1	27359.1	0.05%	0.27	0.04	0.31	0.60	12	2	0.91	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%	0.24	0.03	0.27	1.12	18	3	1.39	TCLSLT
ABB0812_2-12	12	2	12	26750.2	26750.2	0.02%	0.27	0.05	0.33	1.78	24	4	2.11	TCLSLT
ABB0912_2-12	12	2	12	31347.5	31347.5	0.34%	0.42	0.04	0.47	3.63	24	4	4.10	TCLSLT
ABB0118_2-12	12	2	18	40656.8	40656.8	0.09%	0.51	0.06	0.56	4.79	24	3	5.35	TCLSLT
ABB0218_2-12	12	2	18	42006.5	42006.5	0.11%	0.96	0.05	1.02	9.68	32	4	10.70	TCLSLT
ABB0318_2-12	12	2	18	46500.5	46500.5	0.21%	0.48	0.05	0.53	10.47	40	5	11.01	TCLSLT
ABB0418_2-12	12	2	18	44295.9	44295.9	0.04%	0.44	0.05	0.49	5.74	32	4	6.22	TCLSLT
ABB0518_2-12	12	2	18	47422.7	47422.7	0.03%	0.40	0.06	0.47	5.49	32	4	5.96	TCLSLT
ABB0618_2-12	12	2	18	40776.9	40776.9	0.05%	0.41	0.04	0.45	2.43	24	3	2.88	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%	0.30	0.03	0.33	2.21	24	3	2.54	TCLSLT
ABB0818_2-12	12	2	18	41451.7	41451.7	0.00%	0.53	0.06	0.59	5.12	24	3	5.71	TCLSLT
ABB0918_2-12	12	2	18	47575.9	47575.9	0.26%	0.80	0.07	0.87	20.68	32	4	21.55	TCLSLT
ABB006_2-25	25	2	6	29265.1	29265.1	0.16%	0.15	0.04	0.18	0.71	15	3	0.90	TCLSLT
ABB016_2-25	25	2	6	29959.4	29959.4	0.02%	0.26	0.02	0.29	1.85	30	6	2.14	TCLSLT
ABB026_2-25	25	2	6	28774.2	28774.2	0.00%	0.33	0.03	0.36	1.09	20	4	1.45	TCLSLT
ABB036_2-25	25	2	6	30295.8	30295.8	0.07%	0.20	0.03	0.23	1.37	15	3	1.60	TCLSLT
ABB046_2-25	25	2	6	31560.1	31560.1	0.06%	0.23	0.03	0.26	0.67	10	2	0.93	TCLSLT
ABB056_2-25	25	2	6	31759.1	31759.1	0.04%	0.27	0.05	0.32	2.05	20	4	2.38	TCLSLT
ABB066_2-25	25	2	6	27896.2	27896.2	0.00%	0.16	0.04	0.20	0.24	10	2	0.45	TCLSLT
ABB076_2-25	25	2	6	31487.0	31487.0	0.16%	0.30	0.06	0.37	1.36	15	3	1.73	TCLSLT
ABB086_2-25	25	2	6	32370.1	32370.1	0.06%	0.24	0.04	0.29	1.28	15	3	1.57	TCLSLT
ABB096_2-25	25	2	6	33498.2	33498.2	0.09%	0.25	0.05	0.30	1.72	15	3	2.02	TCLSLT
ABB0012_2-25	25	2	12	58331.9	58331.9	0.01%	0.37	0.04	0.42	2.84	18	3	3.26	TCLSLT
ABB0112_2-25	25	2	12	61101.4	61101.4	0.02%	0.50	0.05	0.55	8.12	24	4	8.67	TCLSLT
ABB0212_2-25	25	2	12	56474.5	56474.5	0.07%	0.61	0.10	0.71	2.90	18	3	3.62	TCLSLT
ABB0312_2-25	25	2	12	59382.2	59382.2	0.12%	0.57	0.07	0.63	4.53	12	2	5.17	TCLSLT
ABB0412_2-25	25	2	12	59863.0	59863.0	0.01%	0.61	0.06	0.67	2.72	24	4	3.39	TCLSLT
ABB0512_2-25	25	2	12	65399.9	65399.9	0.18%	0.75	0.04	0.79	10.42	24	4	11.21	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%	0.20	0.04	0.25	0.62	12	2	0.87	TCLSLT
ABB0712_2-25	25	2	12	62954.0	62954.0	0.09%	0.66	0.09	0.75	5.08	18	3	5.83	TCLSLT
ABB0812_2-25	25	2	12	63145.6	63145.6	0.09%	0.85	0.04	0.90	4.42	12	2	5.32	TCLSLT
ABB0912_2-25	25	2	12	64154.6	64154.6	0.07%	0.44	0.04	0.49	3.50	12	2	3.99	TCLSLT
ABB0018_2-25	25	2	18	87097.0	87097.0	0.00%	0.76	0.08	0.85	4.83	24	3	5.68	TCLSLT
ABB0118_2-25	25	2	18	88775.0	88775.0	0.09%	1.11	0.06	1.17	9.83	16	2	11.00	TCLSLT
ABB0218_2-25	25	2	18	83579.3	83579.3	0.09%	0.76	0.11	0.87	8.07	24	3	8.94	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.06%	0.90	0.09	0.99	19.38	24	3	20.37	TCLSLT
ABB0418_2-25	25	2	18	90853.8	90853.8	0.06%	0.75	0.06	0.81	10.05	32	4	10.86	TCLSLT
ABB0518_2-25	25	2	18	95657.0	95657.0	0.23%	1.30	0.15	1.45	81.55	24	3	83.00	TCLSLT
ABB0618_2-25	25	2	18	83620.4	83620.4	0.00%	0.38	0.04	0.43	2.87	24	3	3.30	TCLSLT
ABB0718_2-25	25	2	18	92463.3	92463.3	0.09%	1.23	0.09	1.32	21.02	16	2	22.35	TCLSLT
ABB0818_2-25	25	2	18	91835.3	91835.3	0.09%	1.19	0.08	1.26	46.25	32	4	47.52	TCLSLT
ABB0918_2-25	25	2	18	93414.5	93414.5	0.07%	1.00	0.06	1.06	12.92	16	2	13.98	TCLSLT
ABB006_2-50	50	2	6	58845.1	58845.1	0.00%	0.30	0.04	0.34	0.60	10	2	0.95	TCLSLT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB016_2-50	50	2	6	60378.9	60378.9	0.01%	0.34	0.03	0.37	0.84	10	2	1.21	TCLSLT
ABB026_2-50	50	2	6	56441.4	56441.4	0.02%	0.40	0.06	0.46	2.57	10	2	3.03	TCLSLT
ABB036_2-50	50	2	6	59469.3	59469.3	0.01%	0.34	0.05	0.39	0.73	10	2	1.12	TCLSLT
ABB046_2-50	50	2	6	61236.5	61236.5	0.04%	0.44	0.08	0.51	3.38	10	2	3.89	TCLSLT
ABB056_2-50	50	2	6	59593.3	59593.3	0.07%	0.31	0.05	0.36	1.95	15	3	2.32	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%	0.34	0.07	0.41	1.04	10	2	1.45	TCLSLT
ABB076_2-50	50	2	6	59130.9	59130.9	0.02%	0.35	0.08	0.43	4.93	15	3	5.36	TCLSLT
ABB086_2-50	50	2	6	60205.4	60205.4	0.03%	0.39	0.06	0.45	2.72	15	3	3.18	TCLSLT
ABB096_2-50	50	2	6	60810.4	60810.4	0.01%	0.36	0.04	0.40	1.21	15	3	1.61	TCLSLT
ABB0012_2-50	50	2	12	117401.0	117401.0	0.01%	0.66	0.07	0.73	3.34	18	3	4.07	TCLSLT
ABB0112_2-50	50	2	12	119978.1	119978.1	0.00%	0.63	0.13	0.76	1.63	12	2	2.39	TCLSLT
ABB0212_2-50	50	2	12	114372.2	114372.2	0.04%	0.78	0.11	0.88	10.67	18	3	11.55	TCLSLT
ABB0312_2-50	50	2	12	120127.5	120127.5	0.02%	0.65	0.11	0.76	6.31	18	3	7.07	TCLSLT
ABB0412_2-50	50	2	12	122602.4	122602.4	0.04%	0.80	0.19	0.99	25.31	24	4	26.30	TCLSLT
ABB0512_2-50	50	2	12	119627.2	119627.2	0.00%	0.83	0.13	0.96	7.41	18	3	8.38	TCLSLT
ABB0612_2-50	50	2	12	113762.7	113762.7	0.02%	0.59	0.17	0.76	3.46	18	3	4.22	TCLSLT
ABB0712_2-50	50	2	12	115027.0	115027.0	0.02%	0.66	0.07	0.74	12.55	12	2	13.28	TCLSLT
ABB0812_2-50	50	2	12	115728.3	115728.3	0.05%	1.02	0.11	1.13	14.82	18	3	15.95	TCLSLT
ABB0912_2-50	50	2	12	122646.6	122646.6	0.02%	0.85	0.07	0.92	6.79	24	4	7.71	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%	0.90	0.13	1.03	5.20	32	4	6.23	TCLSLT
ABB0118_2-50	50	2	18	178894.7	178894.7	0.00%	0.99	0.14	1.13	6.82	24	3	7.96	TCLSLT
ABB0218_2-50	50	2	18	170099.4	170099.4	0.04%	1.59	0.20	1.79	44.39	24	3	46.19	TCLSLT
ABB0318_2-50	50	2	18	181249.5	181249.5	0.01%	1.36	0.26	1.62	21.68	32	4	23.29	TCLSLT
ABB0418_2-50	50	2	18	182971.5	182971.5	0.07%	1.62	0.22	1.85	91.66	24	3	93.52	TCLSLT
ABB0518_2-50	50	2	18	181347.2	181347.2	0.01%	0.87	0.13	1.01	23.99	24	3	25.00	TCLSLT
ABB0618_2-50	50	2	18	171902.8	171902.8	0.00%	1.21	0.13	1.35	7.30	24	3	8.65	TCLSLT
ABB0718_2-50	50	2	18	172677.2	172677.2	0.01%	1.20	0.16	1.36	26.23	32	4	27.59	TCLSLT
ABB0818_2-50	50	2	18	173946.6	173946.6	0.02%	1.14	0.13	1.28	17.48	24	3	18.76	TCLSLT
ABB0918_2-50	50	2	18	183314.1	183314.1	0.03%	1.55	0.13	1.69	27.00	16	2	28.69	TCLSLT
ABB006_4-6	6	4	6	6464.9	6464.9	0.11%	0.14	0.04	0.18	0.46	15	3	0.64	TCLSLT
ABB016_4-6	6	4	6	7416.4	7416.4	0.00%	0.19	0.05	0.23	0.80	15	3	1.03	TCLSLT
ABB026_4-6	6	4	6	7464.6	7464.6	0.02%	0.14	0.04	0.18	0.40	15	3	0.58	TCLSLT
ABB036_4-6	6	4	6	6820.0	6820.0	0.00%	0.12	0.03	0.15	0.33	10	2	0.49	TCLSLT
ABB046_4-6	6	4	6	5688.1	5688.1	0.11%	0.11	0.04	0.16	0.40	15	3	0.55	TCLSLT
ABB056_4-6	6	4	6	8045.6	8045.6	0.33%	0.17	0.04	0.22	0.70	10	2	0.91	TCLSLT
ABB066_4-6	6	4	6	6508.5	6508.5	0.07%	0.18	0.04	0.22	0.30	15	3	0.52	TCLSLT
ABB076_4-6	6	4	6	7825.0	7825.0	0.01%	0.12	0.03	0.15	0.30	15	3	0.45	TCLSLT
ABB086_4-6	6	4	6	5917.1	5917.1	0.00%	0.12	0.04	0.15	0.32	20	4	0.47	TCLSLT
ABB096_4-6	6	4	6	8633.6	8633.6	0.26%	0.15	0.03	0.18	0.28	10	2	0.47	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%	0.28	0.06	0.35	0.71	18	3	1.05	TCLSLT
ABB0112_4-6	6	4	12	15536.6	15536.6	0.04%	0.39	0.10	0.48	5.13	36	6	5.62	TCLSLT
ABB0212_4-6	6	4	12	14802.5	14802.5	0.06%	0.36	0.07	0.43	1.33	18	3	1.76	TCLSLT
ABB0312_4-6	6	4	12	14718.6	14718.6	0.00%	0.34	0.09	0.43	0.76	18	3	1.19	TCLSLT
ABB0412_4-6	6	4	12	13227.0	13227.0	0.23%	0.38	0.08	0.47	6.44	24	4	6.91	TCLSLT
ABB0512_4-6	6	4	12	16262.2	16262.2	0.03%	0.46	0.08	0.54	5.21	24	4	5.75	TCLSLT
ABB0612_4-6	6	4	12	12966.7	12966.7	0.09%	0.35	0.07	0.42	0.87	18	3	1.29	TCLSLT
ABB0712_4-6	6	4	12	14884.5	14884.5	0.00%	0.32	0.06	0.38	1.44	24	4	1.52	TCLSLT
ABB0812_4-6	6	4	12	12604.2	12604.2	0.05%	0.33	0.05	0.39	1.01	18	3	1.40	TCLSLT
ABB0912_4-6	6	4	12	15135.1	15135.1	0.12%	0.45	0.05	0.50	0.92	18	3	1.42	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%	0.82	0.10	0.93	6.04	32	4	6.97	TCLSLT
ABB0118_4-6	6	4	18	22158.4	22158.4	0.00%	0.86	0.16	1.03	4.27	24	3	5.30	TCLSLT
ABB0218_4-6	6	4	18	21734.9	21734.9	0.00%	1.05	0.14	1.19	3.58	24	3	4.77	TCLSLT
ABB0318_4-6	6	4	18	22542.6	22542.6	0.00%	0.85	0.11	0.97	6.49	32	4	7.46	TCLSLT
ABB0418_4-6	6	4	18	20284.2	20284.2	0.00%	0.78	0.10	0.88	6.56	40	5	7.44	TCLSLT
ABB0518_4-6	6	4	18	24101.0	24101.0	0.37%	1.05	0.09	1.14	27.61	32	4	28.75	TCLSLT
ABB0618_4-6	6	4	18	20169.0	20169.0	0.06%	0.79	0.11	0.90	5.28	40	5	6.19	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%	0.69	0.11	0.80	3.76	32	4	4.56	TCLSLT
ABB0818_4-6	6	4	18	18410.0	18410.0	0.02%	0.60	0.09	0.69	2.73	24	3	3.43	TCLSLT
ABB0918_4-6	6	4	18	22403.9	22403.9	0.05%	0.85	0.07	0.92	2.10	24	3	3.02	TCLSLT
ABB006_4-12	12	4	6	13446.0	13446.0	0.00%	0.23	0.04	0.26	1.46	15	3	1.72	TCLSLT
ABB016_4-12	12	4	6	15674.7	15674.7	0.15%	0.30	0.06	0.36	2.85	15	3	3.21	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%	0.24	0.03	0.26	0.73	10	2	0.99	TCLSLT
ABB036_4-12	12	4	6	12514.3	12514.3	0.37%	0.22	0.04	0.26	1.39	15	3	1.64	TCLSLT
ABB046_4-12	12	4	6	14495.3	14495.3	0.08%	0.19	0.03	0.22	1.33	15	3	1.55	TCLSLT
ABB056_4-12	12	4	6	14344.1	14344.1	0.02%	0.19	0.06	0.25	2.51	15	3	2.77	TCLSLT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB066_4-12	12	4	6	12697.2	12697.2	0.00%	0.15	0.05	0.20	0.37	15	3	0.57	TCLSLT
ABB076_4-12	12	4	6	12606.8	12606.8	0.01%	0.21	0.04	0.25	0.90	15	3	1.16	TCLSLT
ABB086_4-12	12	4	6	14773.6	14773.6	0.02%	0.20	0.03	0.23	0.86	15	3	1.09	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%	0.19	0.03	0.22	1.68	15	3	1.91	TCLSLT
ABB0012_4-12	12	4	12	25208.6	25208.6	0.24%	0.53	0.12	0.64	14.51	18	3	15.16	TCLSLT
ABB0112_4-12	12	4	12	29044.4	29044.4	0.43%	0.73	0.15	0.88	29.17	36	6	30.05	TCLSLT
ABB0212_4-12	12	4	12	26767.7	26767.7	0.06%	0.80	0.07	0.87	6.60	24	4	7.48	TCLSLT
ABB0312_4-12	12	4	12	25865.1	25865.1	0.23%	0.55	0.08	0.63	17.52	30	5	18.15	TCLSLT
ABB0412_4-12	12	4	12	27613.2	27613.2	0.05%	0.54	0.07	0.61	5.70	24	4	6.32	TCLSLT
ABB0512_4-12	12	4	12	28265.4	28265.4	0.26%	0.43	0.11	0.54	20.53	24	4	21.07	TCLSLT
ABB0612_4-12	12	4	12	24754.1	24754.1	0.00%	0.22	0.07	0.30	1.54	24	4	1.84	TCLSLT
ABB0712_4-12	12	4	12	26665.9	26665.9	0.07%	0.39	0.09	0.49	5.53	24	4	6.02	TCLSLT
ABB0812_4-12	12	4	12	28393.9	28393.9	0.07%	0.66	0.06	0.73	3.82	24	4	4.55	TCLSLT
ABB0912_4-12	12	4	12	29040.2	29040.2	0.48%	0.62	0.19	0.81	26.82	24	4	27.63	TCLSLT
ABB0018_4-12	12	4	18	38909.7	38909.7	0.27%	1.23	0.14	1.37	47.40	24	3	48.77	TCLSLT
ABB0118_4-12	12	4	18	42645.5	42645.5	0.34%	1.59	0.17	1.77	103.71	40	5	105.48	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.02%	0.96	0.09	1.05	11.90	24	3	12.95	TCLSLT
ABB0318_4-12	12	4	18	40343.3	40343.3	0.50%	1.34	0.15	1.49	47.38	24	3	48.87	TCLSLT
ABB0418_4-12	12	4	18	41075.8	41075.8	0.12%	0.91	0.14	1.05	28.94	40	5	29.99	TCLSLT
ABB0518_4-12	12	4	18	41423.3	41423.3	0.17%	0.77	0.10	0.87	31.14	32	4	32.01	TCLSLT
ABB0618_4-12	12	4	18	37402.2	37402.2	0.02%	0.55	0.07	0.63	6.00	32	4	6.63	TCLSLT
ABB0718_4-12	12	4	18	41696.1	41696.1	0.18%	1.26	0.16	1.42	46.88	40	5	48.31	TCLSLT
ABB0818_4-12	12	4	18	43014.0	43014.0	-0.27%	1.06	0.11	1.17	16.32	24	3	17.49	TCLSLT
ABB0918_4-12	12	4	18	42099.9	42099.9	0.35%	1.15	0.18	1.33	53.96	24	3	55.29	TCLSLT
ABB006_4-25	25	4	6	25707.3	25707.3	0.00%	0.31	0.05	0.36	1.15	10	2	1.51	TCLSLT
ABB016_4-25	25	4	6	29649.4	29649.4	0.08%	0.28	0.06	0.33	1.92	20	4	2.25	TCLSLT
ABB026_4-25	25	4	6	27876.6	27876.6	0.08%	0.39	0.10	0.49	24.25	20	4	24.74	TCLSLT
ABB036_4-25	25	4	6	26311.8	26311.8	0.08%	0.40	0.09	0.49	3.22	10	2	3.71	TCLSLT
ABB046_4-25	25	4	6	26760.7	26760.7	0.01%	0.22	0.08	0.29	1.13	15	3	1.42	TCLSLT
ABB056_4-25	25	4	6	30272.1	30272.1	0.01%	0.34	0.06	0.41	4.98	15	3	5.39	TCLSLT
ABB066_4-25	25	4	6	25472.9	25472.9	0.00%	0.25	0.06	0.31	1.32	15	3	1.63	TCLSLT
ABB076_4-25	25	4	6	27345.4	27345.4	0.09%	0.39	0.05	0.45	4.71	10	2	5.16	TCLSLT
ABB086_4-25	25	4	6	26363.1	26363.1	0.05%	0.28	0.05	0.33	1.74	15	3	2.07	TCLSLT
ABB096_4-25	25	4	6	28093.2	28093.2	0.05%	0.40	0.05	0.45	2.39	15	3	2.84	TCLSLT
ABB0012_4-25	25	4	12	54098.4	54098.4	0.16%	1.04	0.13	1.18	39.30	18	3	40.48	TCLSLT
ABB0112_4-25	25	4	12	56555.0	56555.0	0.03%	0.77	0.10	0.87	10.82	24	4	11.69	TCLSLT
ABB0212_4-25	25	4	12	53635.2	53635.2	0.19%	1.03	0.25	1.29	44.83	24	4	46.12	TCLSLT
ABB0312_4-25	25	4	12	54478.9	54478.9	0.20%	0.68	0.16	0.84	37.16	18	3	38.00	TCLSLT
ABB0412_4-25	25	4	12	55098.5	55098.5	0.00%	0.55	0.08	0.63	2.58	12	2	3.21	TCLSLT
ABB0512_4-25	25	4	12	57290.0	57290.0	0.00%	0.67	0.09	0.76	18.25	18	3	19.01	TCLSLT
ABB0612_4-25	25	4	12	50890.4	50890.4	0.06%	0.58	0.12	0.70	5.07	18	3	5.77	TCLSLT
ABB0712_4-25	25	4	12	55970.5	55970.5	0.20%	0.82	0.09	0.91	39.88	18	3	40.80	TCLSLT
ABB0812_4-25	25	4	12	54406.0	54406.0	0.14%	0.78	0.12	0.91	22.46	12	2	23.36	TCLSLT
ABB0912_4-25	25	4	12	55263.5	55263.5	0.18%	0.99	0.08	1.08	72.71	30	5	73.79	TCLSLT
ABB0018_4-25	25	4	18	78512.8	78512.8	0.11%	1.83	0.26	2.09	101.62	32	4	103.71	TCLSLT
ABB0118_4-25	25	4	18	84176.7	84176.7	0.07%	1.26	0.19	1.46	34.02	24	3	35.49	TCLSLT
ABB0218_4-25	25	4	18	81370.8	81370.8	0.18%	1.85	0.09	1.95	125.40	24	3	127.35	TCLSLT
ABB0318_4-25	25	4	18	81014.5	81014.5	0.20%	1.55	0.18	1.74	65.59	16	2	67.33	TCLSLT
ABB0418_4-25	25	4	18	83484.4	83484.4	0.01%	0.86	0.15	1.01	9.79	24	3	10.81	TCLSLT
ABB0518_4-25	25	4	18	84724.9	84724.9	0.14%	1.28	0.22	1.51	78.19	40	5	79.70	TCLSLT
ABB0618_4-25	25	4	18	77582.2	77582.2	0.00%	1.05	0.12	1.17	9.01	24	3	10.19	TCLSLT
ABB0718_4-25	25	4	18	83256.4	83256.4	0.20%	1.44	0.13	1.58	110.92	32	4	112.50	TCLSLT
ABB0818_4-25	25	4	18	78744.9	78744.9	0.05%	1.47	0.11	1.58	21.95	24	3	23.54	TCLSLT
ABB0918_4-25	25	4	18	82859.6	82859.6	0.20%	1.98	0.14	2.13	110.94	24	3	113.07	TCLSLT
ABB006_4-50	50	4	6	54786.5	54786.5	0.01%	0.59	0.07	0.66	6.59	15	3	7.25	TCLSLT
ABB016_4-50	50	4	6	55560.0	55560.0	0.03%	0.47	0.08	0.56	2.85	10	2	3.41	TCLSLT
ABB026_4-50	50	4	6	56250.4	56250.4	0.04%	0.77	0.07	0.85	5.54	15	3	6.39	TCLSLT
ABB036_4-50	50	4	6	55563.6	55563.6	0.07%	0.57	0.07	0.65	16.95	10	2	17.60	TCLSLT
ABB046_4-50	50	4	6	57288.1	57288.1	0.11%	0.64	0.09	0.73	41.28	15	3	42.00	TCLSLT
ABB056_4-50	50	4	6	57508.3	57508.3	0.00%	0.46	0.11	0.57	4.49	15	3	5.06	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%	0.51	0.11	0.62	1.15	10	2	1.78	TCLSLT
ABB076_4-50	50	4	6	51865.3	51865.3	0.02%	0.75	0.07	0.82	5.81	15	3	6.64	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%	0.50	0.13	0.63	6.89	20	4	7.52	TCLSLT
ABB096_4-50	50	4	6	60295.3	60295.3	0.04%	0.60	0.08	0.68	5.79	15	3	6.47	TCLSLT
ABB0012_4-50	50	4	12	110827.6	110827.6	0.07%	1.48	0.16	1.65	36.29	18	3	37.95	TCLSLT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0112_4-50	50	4	12	108638.1	108638.1	0.04%	1.31	0.14	1.45	28.76	24	4	30.21	TCLSLT
ABB0212_4-50	50	4	12	108292.8	108292.8	0.05%	1.43	0.17	1.60	25.62	24	4	27.23	TCLSLT
ABB0312_4-50	50	4	12	110682.6	110682.6	0.12%	1.41	0.21	1.63	100.46	30	5	102.10	TCLSLT
ABB0412_4-50	50	4	12	110165.2	110165.2	0.08%	1.40	0.16	1.56	27.01	12	2	28.58	TCLSLT
ABB0512_4-50	50	4	12	112151.2	112151.2	0.01%	0.97	0.11	1.09	11.74	12	2	12.83	TCLSLT
ABB0612_4-50	50	4	12	104158.4	104158.4	0.01%	1.28	0.08	1.36	4.68	18	3	6.05	TCLSLT
ABB0712_4-50	50	4	12	107074.9	107074.9	0.12%	1.70	0.13	1.84	38.48	12	2	40.32	TCLSLT
ABB0812_4-50	50	4	12	106683.1	106683.1	0.03%	1.22	0.19	1.41	7.21	12	2	8.62	TCLSLT
ABB0912_4-50	50	4	12	114587.5	114587.5	0.04%	1.21	0.08	1.30	26.20	18	3	27.50	TCLSLT
ABB0018_4-50	50	4	18	160545.1	160545.1	0.12%	2.52	0.24	2.76	34.38	16	2	37.15	TCLSLT
ABB0118_4-50	50	4	18	162045.4	162045.4	0.03%	1.77	0.19	1.97	34.77	32	4	36.74	TCLSLT
ABB0218_4-50	50	4	18	163370.1	163370.1	0.03%	2.57	0.20	2.77	67.33	24	3	70.11	TCLSLT
ABB0318_4-50	50	4	18	163951.8	163951.8	0.10%	2.93	0.27	3.22	211.96	32	4	215.18	TCLSLT
ABB0418_4-50	50	4	18	167288.0	167288.0	0.11%	2.60	0.35	2.96	175.89	24	3	178.86	TCLSLT
ABB0518_4-50	50	4	18	168386.0	168386.0	0.04%	2.31	0.28	2.60	56.67	24	3	59.28	TCLSLT
ABB0618_4-50	50	4	18	156591.8	156591.8	0.04%	1.62	0.16	1.79	30.65	16	2	32.44	TCLSLT
ABB0718_4-50	50	4	18	162363.2	162363.2	0.10%	3.07	0.16	3.24	122.82	24	3	126.07	TCLSLT
ABB0818_4-50	50	4	18	157551.6	157551.6	0.02%	1.88	0.24	2.12	19.49	16	2	21.62	TCLSLT
ABB0918_4-50	50	4	18	168757.7	168757.7	0.04%	2.77	0.16	2.93	44.84	16	2	47.78	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%	0.14	0.04	0.18	0.30	15	3	0.48	TCLSLT
ABB026_6-6	6	6	6	7102.0	7102.0	0.00%	0.16	0.06	0.22	0.45	15	3	0.67	TCLSLT
ABB036_6-6	6	6	6	7660.9	7660.9	0.29%	0.15	0.09	0.24	0.68	15	3	0.93	TCLSLT
ABB046_6-6	6	6	6	8274.0	8274.0	0.12%	0.24	0.06	0.31	0.60	15	3	0.90	TCLSLT
ABB056_6-6	6	6	6	8203.3	8203.3	0.00%	0.21	0.07	0.28	0.86	20	4	1.15	TCLSLT
ABB066_6-6	6	6	6	6872.6	6872.6	0.06%	0.16	0.06	0.22	0.46	10	2	0.69	TCLSLT
ABB076_6-6	6	6	6	7942.5	7942.5	0.00%	0.22	0.07	0.29	0.52	15	3	0.81	TCLSLT
ABB086_6-6	6	6	6	6982.7	6982.7	0.71%	0.21	0.10	0.31	1.31	20	4	1.62	TCLSLT
ABB096_6-6	6	6	6	7803.0	7803.0	0.20%	0.27	0.11	0.38	0.96	15	3	1.34	TCLSLT
ABB0012_6-6	6	6	12	12392.7	12392.7	0.00%	0.40	0.07	0.48	0.83	18	3	1.31	TCLSLT
ABB0212_6-6	6	6	12	14582.1	14582.1	0.00%	0.65	0.23	0.89	2.74	30	5	3.63	TCLSLT
ABB0312_6-6	6	6	12	15087.9	15087.9	0.06%	0.47	0.21	0.68	1.24	18	3	1.93	TCLSLT
ABB0412_6-6	6	6	12	15476.7	15476.7	0.17%	0.78	0.27	1.05	3.89	24	4	4.94	TCLSLT
ABB0512_6-6	6	6	12	15020.3	15020.3	0.01%	0.36	0.16	0.52	1.26	18	3	1.79	TCLSLT
ABB0612_6-6	6	6	12	13133.9	13133.9	0.00%	0.81	0.11	0.92	3.12	18	3	4.04	TCLSLT
ABB0712_6-6	6	6	12	15521.8	15521.8	0.07%	0.53	0.26	0.79	1.39	18	3	2.18	TCLSLT
ABB0812_6-6	6	6	12	13080.8	13080.8	0.50%	0.78	0.27	1.05	3.70	18	3	4.75	TCLSLT
ABB0912_6-6	6	6	12	14803.8	14803.8	0.21%	0.79	0.19	0.98	2.58	12	2	3.56	TCLSLT
ABB0018_6-6	6	6	18	18384.6	18384.6	0.00%	0.98	0.22	1.20	1.82	24	3	3.02	TCLSLT
ABB0218_6-6	6	6	18	20318.1	20318.1	0.00%	1.37	0.28	1.65	2.17	24	3	3.82	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%	1.27	0.29	1.57	3.69	32	4	5.26	TCLSLT
ABB0418_6-6	6	6	18	23161.2	23161.2	0.06%	2.14	0.44	2.59	12.15	32	4	14.73	TCLSLT
ABB0518_6-6	6	6	18	22881.4	22881.4	0.01%	1.22	0.34	1.56	6.21	32	4	7.78	TCLSLT
ABB0618_6-6	6	6	18	20655.6	20655.6	0.00%	1.21	0.16	1.37	5.32	24	3	6.69	TCLSLT
ABB0718_6-6	6	6	18	22427.0	22427.0	0.03%	1.24	0.26	1.50	5.95	40	5	7.45	TCLSLT
ABB0818_6-6	6	6	18	20815.6	20815.6	0.13%	1.70	0.37	2.07	6.25	40	5	8.32	TCLSLT
ABB0918_6-6	6	6	18	22345.7	22345.7	0.00%	2.12	0.28	2.40	35.19	40	5	37.59	TCLSLT
ABB006_6-12	12	6	6	12926.7	12926.7	0.00%	0.28	0.08	0.37	0.91	10	2	1.28	TCLSLT
ABB016_6-12	12	6	6	13331.5	13331.5	0.01%	0.31	0.09	0.40	2.80	20	4	3.20	TCLSLT
ABB026_6-12	12	6	6	12238.9	12238.9	0.00%	0.26	0.07	0.34	1.81	20	4	2.15	TCLSLT
ABB036_6-12	12	6	6	13147.8	13147.8	0.00%	0.21	0.09	0.30	0.98	15	3	1.28	TCLSLT
ABB046_6-12	12	6	6	12862.7	12862.7	0.00%	0.22	0.06	0.28	0.72	10	2	1.00	TCLSLT
ABB056_6-12	12	6	6	12470.5	12470.5	0.08%	0.20	0.06	0.26	0.54	10	2	0.79	TCLSLT
ABB066_6-12	12	6	6	11861.4	11861.4	0.13%	0.29	0.11	0.40	1.36	15	3	1.75	TCLSLT
ABB076_6-12	12	6	6	13879.6	13879.6	0.15%	0.31	0.06	0.37	4.11	15	3	4.47	TCLSLT
ABB086_6-12	12	6	6	13708.0	13708.0	0.00%	0.36	0.15	0.51	2.68	20	4	3.19	TCLSLT
ABB096_6-12	12	6	6	14614.6	14614.6	0.04%	0.30	0.08	0.38	5.25	20	4	5.63	TCLSLT
ABB0012_6-12	12	6	12	24496.2	24496.2	0.05%	0.70	0.19	0.89	7.60	24	4	8.49	TCLSLT
ABB0112_6-12	12	6	12	26041.0	26041.0	0.10%	0.92	0.22	1.14	7.69	18	3	8.83	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%	0.71	0.19	0.90	18.12	24	4	19.02	TCLSLT
ABB0312_6-12	12	6	12	26932.0	26932.0	0.05%	0.53	0.34	0.87	6.97	24	4	7.85	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%	0.52	0.12	0.65	8.51	18	3	9.16	TCLSLT
ABB0512_6-12	12	6	12	26665.2	26665.2	0.07%	0.58	0.24	0.82	11.64	24	4	12.46	TCLSLT
ABB0612_6-12	12	6	12	23924.9	23924.9	0.10%	0.71	0.09	0.81	6.63	24	4	7.44	TCLSLT
ABB0712_6-12	12	6	12	28604.3	28604.3	0.33%	0.91	0.13	1.05	60.21	30	5	61.26	TCLSLT
ABB0812_6-12	12	6	12	26482.1	26482.1	0.29%	0.96	0.29	1.26	12.83	18	3	14.08	TCLSLT

Continua na Próxima Página

Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0912_6-12	12	6	12	27760.0	27760.0	0.13%	0.99	0.34	1.34	14.96	18	3	16.30	TCLSLT
ABB0018_6-12	12	6	18	36870.9	36870.9	0.00%	1.45	0.08	1.53	17.70	32	4	19.24	TCLSLT
ABB0118_6-12	12	6	18	41727.2	41727.2	0.13%	1.82	0.31	2.14	34.16	24	3	36.30	TCLSLT
ABB0218_6-12	12	6	18	37574.9	37574.9	0.30%	1.14	0.19	1.33	92.35	32	4	93.69	TCLSLT
ABB0318_6-12	12	6	18	38948.7	38948.7	0.06%	1.26	0.31	1.58	21.23	40	5	22.81	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%	1.25	0.24	1.49	8.24	24	3	9.74	TCLSLT
ABB0518_6-12	12	6	18	41020.8	41020.8	0.09%	1.06	0.20	1.26	38.44	32	4	39.70	TCLSLT
ABB0618_6-12	12	6	18	37896.8	37896.8	0.15%	2.24	0.15	2.39	58.22	32	4	60.62	TCLSLT
ABB0718_6-12	12	6	18	42279.3	42279.3	0.38%	1.79	0.36	2.16	114.96	48	6	117.12	TCLSLT
ABB0818_6-12	12	6	18	40385.8	40385.8	0.71%	3.05	0.37	3.43	157.26	32	4	160.69	TCLSLT
ABB0918_6-12	12	6	18	41900.4	41900.4	0.38%	1.79	0.51	2.31	86.77	40	5	89.09	TCLSLT
ABB006_6-25	25	6	6	25938.3	25938.3	0.10%	0.55	0.07	0.62	52.95	25	5	53.58	TCLSLT
ABB016_6-25	25	6	6	25645.7	25645.7	0.18%	0.55	0.05	0.61	21.77	10	2	22.38	TCLSLT
ABB026_6-25	25	6	6	26951.1	26951.1	0.03%	0.40	0.11	0.51	6.25	15	3	6.75	TCLSLT
ABB036_6-25	25	6	6	27212.8	27212.8	0.26%	0.63	0.06	0.69	34.42	20	4	35.12	TCLSLT
ABB046_6-25	25	6	6	28820.1	28820.1	0.21%	0.60	0.17	0.77	34.31	15	3	35.09	TCLSLT
ABB056_6-25	25	6	6	26522.2	26522.2	0.05%	0.46	0.13	0.59	20.88	25	5	21.47	TCLSLT
ABB066_6-25	25	6	6	25486.5	25486.5	0.03%	0.37	0.15	0.52	2.65	20	4	3.17	TCLSLT
ABB076_6-25	25	6	6	28154.3	28154.3	0.07%	0.62	0.09	0.72	4.04	20	4	4.76	TCLSLT
ABB086_6-25	25	6	6	26880.7	26880.7	0.03%	0.52	0.09	0.62	18.54	15	3	19.16	TCLSLT
ABB096_6-25	25	6	6	26598.0	26598.0	0.10%	0.56	0.10	0.66	17.30	20	4	17.97	TCLSLT
ABB0012_6-25	25	6	12	52860.7	52860.7	0.28%	1.38	0.16	1.55	79.07	24	4	80.62	TCLSLT
ABB0112_6-25	25	6	12	53119.6	53119.6	0.34%	1.54	0.24	1.79	108.93	24	4	110.72	TCLSLT
ABB0212_6-25	25	6	12	54298.6	54298.6	0.13%	1.06	0.14	1.20	24.29	18	3	25.50	TCLSLT
ABB0312_6-25	25	6	12	53229.4	53229.4	0.61%	1.76	0.25	2.02	172.70	24	4	174.73	TCLSLT
ABB0412_6-25	25	6	12	56441.2	56441.2	0.23%	1.46	0.34	1.80	112.32	24	4	114.13	TCLSLT
ABB0512_6-25	25	6	12	52160.8	52160.8	0.22%	1.26	0.39	1.66	72.89	24	4	74.55	TCLSLT
ABB0612_6-25	25	6	12	51231.1	51231.1	0.02%	1.02	0.14	1.16	17.52	24	4	18.69	TCLSLT
ABB0712_6-25	25	6	12	53172.1	53172.1	0.26%	1.63	0.20	1.83	77.97	18	3	79.80	TCLSLT
ABB0812_6-25	25	6	12	51562.6	51562.6	0.13%	1.33	0.33	1.66	44.03	24	4	45.69	TCLSLT
ABB0912_6-25	25	6	12	54004.3	54004.3	0.13%	1.24	0.26	1.51	51.74	18	3	53.25	TCLSLT
ABB0018_6-25	25	6	18	77063.3	77063.3	0.24%	3.29	0.62	3.91	111.29	16	2	115.20	TCLSLT
ABB0118_6-25	25	6	18	80008.5	80008.5	0.26%	2.75	0.45	3.21	195.88	24	3	199.09	TCLSLT
ABB0218_6-25	25	6	18	82230.6	82239.5	0.23%	2.95	0.21	3.16	215.35	32	4	218.51	TCLSLT
ABB0318_6-25	25	6	18	80943.6	80955.8	0.62%	3.46	0.62	4.09	470.04	48	6	474.13	TCLSLT
ABB0418_6-25	25	6	18	85566.5	85566.5	0.24%	3.90	0.49	4.39	205.45	24	3	209.85	TCLSLT
ABB0518_6-25	25	6	18	81486.1	81486.1	0.19%	2.27	0.36	2.64	220.82	32	4	223.47	TCLSLT
ABB0618_6-25	25	6	18	76578.9	76578.9	0.04%	1.66	0.23	1.89	51.79	32	4	53.68	TCLSLT
ABB0718_6-25	25	6	18	78321.7	78321.7	0.24%	2.15	0.18	2.33	176.91	24	3	179.24	TCLSLT
ABB0818_6-25	25	6	18	75620.8	75620.8	0.15%	1.82	0.30	2.12	104.04	24	3	106.17	TCLSLT
ABB0918_6-25	25	6	18	81829.6	81829.6	0.14%	2.49	0.20	2.69	134.79	24	3	137.49	TCLSLT
ABB006_6-50	50	6	6	50834.7	50834.7	0.07%	1.01	0.19	1.21	31.77	15	3	32.99	TCLSLT
ABB016_6-50	50	6	6	50949.8	50949.8	0.05%	0.70	0.21	0.92	22.58	10	2	23.49	TCLSLT
ABB026_6-50	50	6	6	52535.6	52535.6	0.12%	0.98	0.12	1.11	73.53	25	5	74.65	TCLSLT
ABB036_6-50	50	6	6	51904.1	51904.1	0.02%	0.83	0.12	0.96	26.90	20	4	27.86	TCLSLT
ABB046_6-50	50	6	6	54394.5	54394.5	0.15%	1.09	0.17	1.27	104.08	25	5	105.35	TCLSLT
ABB056_6-50	50	6	6	53114.3	53114.3	0.13%	0.81	0.33	1.14	38.51	15	3	39.65	TCLSLT
ABB066_6-50	50	6	6	52450.6	52450.6	0.19%	0.95	0.13	1.09	30.56	10	2	31.65	TCLSLT
ABB076_6-50	50	6	6	54128.8	54128.8	0.00%	0.61	0.19	0.80	5.60	15	3	6.41	TCLSLT
ABB086_6-50	50	6	6	51236.8	51236.8	0.08%	0.79	0.12	0.91	32.65	25	5	33.75	TCLSLT
ABB096_6-50	50	6	6	50883.9	50883.9	0.02%	0.61	0.13	0.74	14.41	10	2	15.16	TCLSLT
ABB0012_6-50	50	6	12	102825.8	102825.8	0.09%	2.25	0.20	2.46	79.49	18	3	81.95	TCLSLT
ABB0112_6-50	50	6	12	101968.5	101968.5	0.13%	2.55	0.37	2.93	59.04	12	2	61.97	TCLSLT
ABB0212_6-50	50	6	12	105793.4	105793.4	0.21%	2.16	0.28	2.45	172.72	24	4	175.18	TCLSLT
ABB0312_6-50	50	6	12	103014.7	103014.7	0.11%	2.23	0.34	2.58	67.90	18	3	70.49	TCLSLT
ABB0412_6-50	50	6	12	110362.6	110362.6	0.16%	3.13	0.48	3.62	155.85	24	4	159.47	TCLSLT
ABB0512_6-50	50	6	12	105924.1	105924.1	0.11%	1.92	0.91	2.83	84.17	24	4	87.01	TCLSLT
ABB0612_6-50	50	6	12	103007.7	103007.7	0.29%	3.34	0.27	3.62	201.90	24	4	205.52	TCLSLT
ABB0712_6-50	50	6	12	107883.4	107883.4	0.09%	1.84	0.22	2.06	74.02	18	3	76.08	TCLSLT
ABB0812_6-50	50	6	12	100301.3	100301.3	0.11%	2.53	0.22	2.75	66.48	18	3	69.24	TCLSLT
ABB0912_6-50	50	6	12	102776.5	102776.5	0.10%	2.22	0.65	2.87	71.65	18	3	74.52	TCLSLT
ABB0018_6-50	50	6	18	153511.0	153511.0	0.13%	5.11	0.66	5.78	202.46	24	3	208.26	TCLSLT
ABB0118_6-50	50	6	18	151604.5	151604.5	0.11%	5.75	0.50	6.26	163.64	24	3	169.91	TCLSLT
ABB0218_6-50	50	6	18	155277.3	155277.3	0.16%	4.40	0.27	4.67	262.17	32	4	266.85	TCLSLT
ABB0318_6-50	50	6	18	154824.3	154824.3	0.12%	3.84	0.99	4.84	192.79	24	3	197.64	TCLSLT

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Tabela I - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0418_6-50	50	6	18	165807.0	165839.3	0.21%	6.62	0.51	7.14	554.96	56	7	562.12	TCLSLT
ABB0518_6-50	50	6	18	156183.7	156183.7	0.20%	4.86	0.78	5.65	369.76	40	5	375.42	TCLSLT
ABB0618_6-50	50	6	18	155479.0	155479.0	0.22%	7.57	0.36	7.94	302.31	32	4	310.26	TCLSLT
ABB0718_6-50	50	6	18	159451.0	159451.0	0.05%	4.19	0.61	4.81	114.49	24	3	119.31	TCLSLT
ABB0818_6-50	50	6	18	151716.5	151716.5	0.13%	4.30	0.40	4.71	251.22	32	4	255.94	TCLSLT
ABB0918_6-50	50	6	18	154657.3	154657.3	0.09%	3.27	0.32	3.60	203.37	24	3	206.98	TCLSLT

Tabela II: Resultados por instância ($m/r/n$) - $HCG_{pd}THFO_{din}$

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6	13492.3	13492.3	0.00%	0.09	0.02	0.11	0.30	15	3	0.41	NCHSHT
NAA016_2-6	6	2	6	10970.8	10970.8	1.17%	0.11	0.02	0.13	0.16	10	2	0.29	NCHSHT
NAA026_2-6	6	2	6	14513.2	14513.2	1.63%	0.08	0.02	0.11	0.22	15	3	0.33	NCHSHT
NAA036_2-6	6	2	6	14675.0	14675.0	0.57%	0.11	0.03	0.14	0.26	15	3	0.40	NCHSHT
NAA046_2-6	6	2	6	15674.7	15674.7	1.83%	0.10	0.02	0.13	0.44	15	3	0.57	NCHSHT
NAA056_2-6	6	2	6	16142.8	16142.8	0.00%	0.10	0.02	0.11	0.03	5	1	0.14	NCHSHT
NAA066_2-6	6	2	6	15326.3	15326.3	0.00%	0.15	0.03	0.18	0.19	10	2	0.37	NCHSHT
NAA076_2-6	6	2	6	16170.5	16170.5	0.33%	0.11	0.02	0.13	0.19	10	2	0.31	NCHSHT
NAA086_2-6	6	2	6	12980.2	12980.2	2.63%	0.11	0.03	0.14	0.27	15	3	0.41	NCHSHT
NAA096_2-6	6	2	6	12694.6	12694.6	0.00%	0.11	0.02	0.13	0.31	15	3	0.44	NCHSHT
NAA0012_2-6	6	2	12	24112.6	24112.6	1.39%	0.19	0.08	0.27	1.69	40	7	1.96	NCHSHT
NAA0112_2-6	6	2	12	23545.2	23545.2	2.69%	0.19	0.04	0.23	3.56	52	9	3.79	NCHSHT
NAA0212_2-6	6	2	12	26657.7	26657.7	1.60%	0.20	0.03	0.24	1.04	34	6	1.28	NCHSHT
NAA0312_2-6	6	2	12	26283.6	26283.6	1.87%	0.16	0.04	0.20	1.38	34	6	1.58	NCHSHT
NAA0412_2-6	6	2	12	25735.9	25735.9	1.06%	0.22	0.04	0.27	2.29	40	7	2.56	NCHSHT
NAA0512_2-6	6	2	12	30090.1	30090.1	1.00%	0.17	0.04	0.22	2.54	45	8	2.76	NCHSHT
NAA0612_2-6	6	2	12	27135.1	27135.1	0.55%	0.16	0.05	0.22	1.92	52	9	2.14	NCHSHT
NAA0712_2-6	6	2	12	26533.3	26533.3	0.33%	0.19	0.03	0.23	1.16	34	6	1.38	NCHSHT
NAA0812_2-6	6	2	12	21729.2	21729.2	0.44%	0.14	0.05	0.19	0.93	34	6	1.12	NCHSHT
NAA0912_2-6	6	2	12	26216.4	26216.4	0.00%	0.14	0.04	0.19	2.03	51	9	2.22	NCHSHT
NAA0018_2-6	6	2	18	32298.9	32298.9	0.04%	0.33	0.06	0.40	5.35	60	8	5.75	NCHSHT
NAA0118_2-6	6	2	18	33168.8	33168.8	0.66%	0.37	0.04	0.42	5.59	44	6	6.01	NCHSHT
NAA0218_2-6	6	2	18	38800.5	38800.5	0.60%	0.24	0.05	0.29	1.86	30	4	2.15	NCHSHT
NAA0318_2-6	6	2	18	39283.8	39283.8	0.61%	0.33	0.05	0.38	2.92	44	6	3.31	NCHSHT
NAA0418_2-6	6	2	18	36392.9	36392.9	1.96%	0.37	0.07	0.44	8.90	60	8	9.34	NCHSHT
NAA0518_2-6	6	2	18	41712.4	41712.4	0.80%	0.27	0.06	0.32	4.95	74	10	5.27	NCHSHT
NAA0618_2-6	6	2	18	38048.6	38048.6	0.17%	0.26	0.08	0.34	2.53	46	6	2.88	NCHSHT
NAA0718_2-6	6	2	18	38204.8	38204.8	0.22%	0.28	0.05	0.34	3.31	52	7	3.65	NCHSHT
NAA0818_2-6	6	2	18	31486.0	31486.0	0.74%	0.22	0.04	0.26	2.61	68	9	2.87	NCHSHT
NAA0918_2-6	6	2	18	35230.0	35230.0	0.21%	0.19	0.08	0.27	2.34	38	5	2.61	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%	0.15	0.03	0.17	0.16	10	2	0.34	NCHSHT
NAA016_2-12	12	2	6	24795.8	24795.8	4.55%	0.14	0.03	0.18	0.69	15	3	0.87	NCHSHT
NAA026_2-12	12	2	6	25321.1	25321.1	2.35%	0.15	0.03	0.18	0.40	10	2	0.58	NCHSHT
NAA036_2-12	12	2	6	28961.2	28961.2	0.00%	0.13	0.03	0.15	0.25	10	2	0.41	NCHSHT
NAA046_2-12	12	2	6	24860.2	24860.2	0.25%	0.15	0.03	0.17	0.49	15	3	0.67	NCHSHT
NAA056_2-12	12	2	6	28598.2	28598.2	0.29%	0.15	0.03	0.18	0.41	10	2	0.59	NCHSHT
NAA066_2-12	12	2	6	25080.1	25080.1	0.85%	0.14	0.03	0.17	0.38	10	2	0.56	NCHSHT
NAA076_2-12	12	2	6	25279.3	25279.3	1.11%	0.11	0.03	0.14	0.51	15	3	0.66	NCHSHT
NAA086_2-12	12	2	6	22924.5	22924.5	0.17%	0.12	0.02	0.15	0.60	20	4	0.75	NCHSHT
NAA096_2-12	12	2	6	26778.7	26778.7	1.03%	0.12	0.04	0.16	1.17	20	4	1.33	NCHSHT
NAA0012_2-12	12	2	12	40427.9	40427.9	0.09%	0.21	0.05	0.25	2.87	40	7	3.12	NCHSHT
NAA0112_2-12	12	2	12	41319.6	41319.6	0.09%	0.21	0.05	0.26	3.36	58	10	3.62	NCHSHT
NAA0212_2-12	12	2	12	43262.8	43262.8	0.58%	0.25	0.06	0.32	4.10	57	10	4.42	NCHSHT
NAA0312_2-12	12	2	12	52618.5	52618.5	0.36%	0.26	0.05	0.30	1.78	23	4	2.09	NCHSHT
NAA0412_2-12	12	2	12	45043.0	45043.0	0.37%	0.22	0.04	0.27	3.17	40	7	3.44	NCHSHT
NAA0512_2-12	12	2	12	51892.1	51892.1	0.95%	0.29	0.05	0.34	11.13	34	6	11.47	NCHSHT
NAA0612_2-12	12	2	12	45304.2	45304.2	0.93%	0.35	0.13	0.47	4.84	46	8	5.32	NCHSHT
NAA0712_2-12	12	2	12	46763.3	46763.3	0.21%	0.38	0.04	0.43	2.55	39	7	2.98	NCHSHT
NAA0812_2-12	12	2	12	41818.7	41818.7	0.70%	0.22	0.07	0.29	2.44	34	6	2.73	NCHSHT
NAA0912_2-12	12	2	12	49705.3	49705.3	0.20%	0.34	0.04	0.38	9.81	57	10	10.19	NCHSHT
NAA0018_2-12	12	2	18	59845.6	59845.6	0.21%	0.45	0.09	0.54	9.34	58	8	9.88	NCHSHT
NAA0118_2-12	12	2	18	61694.9	61694.9	0.58%	0.35	0.07	0.42	16.07	52	7	16.50	NCHSHT
NAA0218_2-12	12	2	18	64850.6	64850.6	0.52%	0.49	0.07	0.56	18.32	68	9	18.88	NCHSHT
NAA0318_2-12	12	2	18	74857.6	74857.6	0.29%	0.31	0.09	0.40	12.64	60	8	13.04	NCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_2-12	12	2	18	67446.2	67446.2	0.66%	0.45	0.05	0.50	12.25	60	8	12.75	NCHSHT
NAA0518_2-12	12	2	18	73481.6	73481.6	0.04%	0.41	0.12	0.53	20.51	46	6	21.04	NCHSHT
NAA0618_2-12	12	2	18	65533.0	65533.0	1.00%	0.31	0.07	0.38	11.35	66	9	11.73	NCHSHT
NAA0718_2-12	12	2	18	67357.6	67357.6	0.07%	0.23	0.08	0.31	3.76	44	6	4.07	NCHSHT
NAA0818_2-12	12	2	18	63981.6	63981.6	0.03%	0.26	0.05	0.31	15.99	52	7	16.31	NCHSHT
NAA0918_2-12	12	2	18	72425.7	72425.7	0.56%	0.36	0.11	0.48	22.93	52	7	23.41	NCHSHT
NAA006_2-25	25	2	6	47710.7	47710.7	0.13%	0.22	0.03	0.25	1.00	15	3	1.25	NCHSHT
NAA016_2-25	25	2	6	48940.4	48940.4	0.55%	0.19	0.03	0.22	0.64	10	2	0.86	NCHSHT
NAA026_2-25	25	2	6	50989.0	50989.0	0.42%	0.25	0.03	0.28	1.45	15	3	1.74	NCHSHT
NAA036_2-25	25	2	6	52946.6	52946.6	0.54%	0.21	0.03	0.24	2.05	15	3	2.30	NCHSHT
NAA046_2-25	25	2	6	53551.6	53551.6	0.03%	0.23	0.04	0.27	1.34	10	2	1.61	NCHSHT
NAA056_2-25	25	2	6	56550.7	56550.7	0.28%	0.27	0.05	0.32	3.69	20	4	4.02	NCHSHT
NAA066_2-25	25	2	6	46110.2	46110.2	0.35%	0.20	0.03	0.23	0.98	15	3	1.21	NCHSHT
NAA076_2-25	25	2	6	51567.0	51567.0	0.46%	0.23	0.05	0.27	1.87	10	2	2.14	NCHSHT
NAA086_2-25	25	2	6	53877.4	53877.4	0.05%	0.22	0.02	0.24	0.99	15	3	1.23	NCHSHT
NAA096_2-25	25	2	6	58995.8	58995.8	0.10%	0.23	0.05	0.28	1.07	10	2	1.35	NCHSHT
NAA0012_2-25	25	2	12	88565.5	88565.5	0.13%	0.44	0.08	0.52	26.98	74	13	27.69	NCHSHT
NAA0112_2-25	25	2	12	93943.7	93943.7	0.20%	0.43	0.10	0.53	42.09	73	13	42.62	NCHSHT
NAA0212_2-25	25	2	12	90490.0	90490.0	0.25%	0.38	0.10	0.48	29.01	51	9	29.50	NCHSHT
NAA0312_2-25	25	2	12	94310.1	94310.1	0.11%	0.40	0.08	0.49	13.77	46	8	14.26	NCHSHT
NAA0412_2-25	25	2	12	93287.1	93287.1	0.46%	0.35	0.07	0.43	12.04	34	6	12.47	NCHSHT
NAA0512_2-25	25	2	12	106034.9	106034.9	0.62%	0.50	0.09	0.59	44.36	52	9	44.95	NCHSHT
NAA0612_2-25	25	2	12	89836.7	89836.7	0.08%	0.41	0.05	0.47	9.28	57	10	9.75	NCHSHT
NAA0712_2-25	25	2	12	95902.4	95902.4	0.06%	0.41	0.05	0.47	9.66	34	6	10.13	NCHSHT
NAA0812_2-25	25	2	12	98045.7	98045.7	0.18%	0.52	0.07	0.59	13.86	45	8	14.45	NCHSHT
NAA0912_2-25	25	2	12	103289.8	103289.8	0.24%	0.40	0.07	0.47	21.82	46	8	22.30	NCHSHT
NAA0018_2-25	25	2	18	128947.4	128947.4	0.16%	0.81	0.09	0.90	87.50	84	11	88.40	NCHSHT
NAA0118_2-25	25	2	18	132779.5	132779.5	0.24%	0.52	0.11	0.64	50.33	100	13	50.97	NCHSHT
NAA0218_2-25	25	2	18	130404.7	130404.7	0.50%	0.63	0.16	0.79	83.88	90	12	84.67	NCHSHT
NAA0318_2-25	25	2	18	142301.2	142301.2	0.23%	0.49	0.15	0.64	61.11	52	7	61.75	NCHSHT
NAA0418_2-25	25	2	18	136730.3	136730.3	0.33%	0.66	0.09	0.75	89.40	82	11	90.15	NCHSHT
NAA0518_2-25	25	2	18	148738.0	148738.0	0.36%	0.90	0.16	1.06	77.63	68	9	78.70	NCHSHT
NAA0618_2-25	25	2	18	126961.9	126961.9	0.18%	0.51	0.11	0.62	30.54	60	8	31.16	NCHSHT
NAA0718_2-25	25	2	18	140912.7	140912.7	0.44%	0.65	0.09	0.74	73.34	46	6	74.08	NCHSHT
NAA0818_2-25	25	2	18	139403.3	139403.3	0.31%	0.60	0.13	0.73	84.36	82	11	85.11	NCHSHT
NAA0918_2-25	25	2	18	147987.0	147987.0	0.19%	0.69	0.11	0.81	70.17	98	13	70.98	NCHSHT
NAA006_2-50	50	2	6	94162.4	94162.4	0.17%	0.40	0.05	0.45	3.55	15	3	4.00	NCHSHT
NAA016_2-50	50	2	6	97938.2	97938.2	0.04%	0.37	0.03	0.41	0.79	10	2	1.20	NCHSHT
NAA026_2-50	50	2	6	94534.9	94534.9	0.11%	0.37	0.08	0.45	1.64	10	2	2.10	NCHSHT
NAA036_2-50	50	2	6	102700.3	102700.3	0.21%	0.35	0.07	0.42	1.79	15	3	2.21	NCHSHT
NAA046_2-50	50	2	6	106632.4	106632.4	0.10%	0.43	0.07	0.50	6.23	15	3	6.73	NCHSHT
NAA056_2-50	50	2	6	104507.6	104507.6	0.10%	0.42	0.05	0.47	5.83	15	3	6.31	NCHSHT
NAA066_2-50	50	2	6	94629.5	94629.5	0.21%	0.36	0.06	0.42	2.15	15	3	2.56	NCHSHT
NAA076_2-50	50	2	6	101554.2	101554.2	0.16%	0.41	0.07	0.48	4.16	15	3	4.65	NCHSHT
NAA086_2-50	50	2	6	99680.4	99680.4	0.10%	0.41	0.03	0.44	1.23	10	2	1.68	NCHSHT
NAA096_2-50	50	2	6	102925.7	102925.7	0.09%	0.42	0.08	0.50	2.04	15	3	2.54	NCHSHT
NAA0012_2-50	50	2	12	176391.4	176391.4	0.05%	0.55	0.08	0.64	17.94	34	6	18.58	NCHSHT
NAA0112_2-50	50	2	12	184217.1	184217.1	0.05%	0.53	0.12	0.66	20.05	34	6	20.71	NCHSHT
NAA0212_2-50	50	2	12	176571.8	176571.8	0.22%	0.60	0.14	0.74	109.72	74	13	110.47	NCHSHT
NAA0312_2-50	50	2	12	189719.2	189719.2	0.09%	0.57	0.07	0.64	33.87	46	8	34.51	NCHSHT
NAA0412_2-50	50	2	12	194680.7	194680.7	0.35%	1.03	0.18	1.21	82.59	51	9	83.80	NCHSHT
NAA0512_2-50	50	2	12	192712.7	192712.7	0.09%	0.62	0.14	0.76	87.96	85	15	88.72	NCHSHT
NAA0612_2-50	50	2	12	174136.6	174136.6	0.03%	0.56	0.10	0.67	25.34	62	11	26.01	NCHSHT
NAA0712_2-50	50	2	12	184105.7	184105.7	0.13%	0.67	0.12	0.79	56.81	51	9	57.60	NCHSHT
NAA0812_2-50	50	2	12	179155.2	179155.2	0.00%	0.63	0.14	0.77	26.88	57	10	27.65	NCHSHT
NAA0912_2-50	50	2	12	189805.2	189805.2	0.07%	0.85	0.10	0.95	43.11	51	9	44.07	NCHSHT
NAA0018_2-50	50	2	18	259163.4	259163.4	0.06%	0.73	0.12	0.85	88.42	96	13	89.28	NCHSHT
NAA0118_2-50	50	2	18	267650.1	267650.1	0.01%	0.83	0.15	0.98	46.43	74	10	47.42	NCHSHT
NAA0218_2-50	50	2	18	255665.1	255665.1	0.06%	1.13	0.21	1.34	72.60	82	11	73.94	NCHSHT
NAA0318_2-50	50	2	18	278888.7	278888.7	0.05%	0.74	0.15	0.90	83.89	82	11	84.79	NCHSHT
NAA0418_2-50	50	2	18	283348.2	283348.2	0.27%	1.17	0.20	1.37	221.18	74	10	222.55	NCHSHT
NAA0518_2-50	50	2	18	282668.5	282668.5	0.11%	1.15	0.15	1.30	122.47	76	10	123.77	NCHSHT
NAA0618_2-50	50	2	18	255936.9	255936.9	0.07%	0.88	0.19	1.07	92.09	60	8	93.16	NCHSHT
NAA0718_2-50	50	2	18	268761.8	268761.8	0.09%	0.93	0.20	1.13	103.93	60	8	105.07	NCHSHT
NAA0818_2-50	50	2	18	262937.3	262937.3	0.08%	1.21	0.17	1.39	119.91	74	10	121.30	NCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0918_2-50	50	2	18	277282.8	277282.8	0.14%	1.29	0.19	1.48	89.16	54	7	90.64	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%	0.11	0.04	0.15	0.33	20	4	0.48	NCHSHT
NAA016_4-6	6	4	6	11099.4	11099.4	0.00%	0.20	0.07	0.27	0.57	15	3	0.84	NCHSHT
NAA026_4-6	6	4	6	11626.9	11626.9	0.00%	0.20	0.07	0.27	0.33	15	3	0.61	NCHSHT
NAA036_4-6	6	4	6	12363.4	12363.4	1.74%	0.15	0.04	0.19	0.34	15	3	0.53	NCHSHT
NAA046_4-6	6	4	6	9742.8	9742.8	0.00%	0.12	0.04	0.16	0.40	15	3	0.56	NCHSHT
NAA056_4-6	6	4	6	14887.4	14887.4	0.35%	0.14	0.05	0.19	0.32	15	3	0.51	NCHSHT
NAA066_4-6	6	4	6	12164.4	12164.4	4.32%	0.17	0.05	0.21	0.35	10	2	0.56	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%	0.13	0.04	0.17	0.22	15	3	0.39	NCHSHT
NAA086_4-6	6	4	6	9912.3	9912.3	2.37%	0.15	0.05	0.19	0.29	15	3	0.48	NCHSHT
NAA096_4-6	6	4	6	14288.8	14288.8	0.12%	0.13	0.04	0.17	0.25	15	3	0.42	NCHSHT
NAA0012_4-6	6	4	12	17220.4	17220.4	0.00%	0.22	0.08	0.30	1.54	34	6	1.85	NCHSHT
NAA0112_4-6	6	4	12	23590.7	23590.7	0.47%	0.37	0.12	0.49	5.47	56	10	5.97	NCHSHT
NAA0212_4-6	6	4	12	21933.6	21933.6	0.00%	0.32	0.16	0.49	2.23	40	7	2.71	NCHSHT
NAA0312_4-6	6	4	12	24289.6	24289.6	0.00%	0.23	0.07	0.31	1.83	57	10	2.14	NCHSHT
NAA0412_4-6	6	4	12	22452.4	22452.4	3.05%	0.27	0.07	0.34	1.86	23	4	2.20	NCHSHT
NAA0512_4-6	6	4	12	29278.6	29278.6	1.26%	0.26	0.09	0.35	2.94	45	8	3.30	NCHSHT
NAA0612_4-6	6	4	12	20568.7	20568.7	0.00%	0.25	0.11	0.37	1.22	34	6	1.58	NCHSHT
NAA0712_4-6	6	4	12	23781.6	23781.6	1.19%	0.22	0.08	0.30	2.44	51	9	2.74	NCHSHT
NAA0812_4-6	6	4	12	18933.6	18933.6	0.00%	0.24	0.10	0.34	2.93	45	8	3.27	NCHSHT
NAA0912_4-6	6	4	12	25464.7	25464.7	0.50%	0.25	0.05	0.30	1.77	46	8	2.08	NCHSHT
NAA0018_4-6	6	4	18	26597.2	26597.2	0.05%	0.70	0.11	0.82	8.92	68	9	9.74	NCHSHT
NAA0118_4-6	6	4	18	31982.4	31982.4	0.26%	0.65	0.16	0.81	3.49	38	5	4.30	NCHSHT
NAA0218_4-6	6	4	18	31622.4	31622.4	0.04%	0.53	0.13	0.66	6.07	52	7	6.73	NCHSHT
NAA0318_4-6	6	4	18	36871.5	36871.5	0.39%	0.44	0.11	0.55	3.98	52	7	4.53	NCHSHT
NAA0418_4-6	6	4	18	33974.1	33974.1	2.68%	0.49	0.12	0.62	11.58	52	7	12.20	NCHSHT
NAA0518_4-6	6	4	18	41524.3	41524.3	1.00%	0.39	0.18	0.57	4.01	44	6	4.58	NCHSHT
NAA0618_4-6	6	4	18	32468.0	32468.0	0.98%	0.51	0.17	0.69	5.29	68	9	5.97	NCHSHT
NAA0718_4-6	6	4	18	35366.2	35366.2	0.45%	0.30	0.12	0.42	5.50	60	8	5.92	NCHSHT
NAA0818_4-6	6	4	18	27227.8	27227.8	0.14%	0.34	0.14	0.48	3.26	52	7	3.74	NCHSHT
NAA0918_4-6	6	4	18	37532.5	37532.5	0.67%	0.50	0.11	0.62	4.73	58	8	5.35	NCHSHT
NAA006_4-12	12	4	6	19735.5	19735.5	0.00%	0.17	0.02	0.20	1.26	15	3	1.47	NCHSHT
NAA016_4-12	12	4	6	22893.0	22893.0	0.13%	0.23	0.05	0.29	6.38	20	4	6.66	NCHSHT
NAA026_4-12	12	4	6	18460.3	18460.3	0.06%	0.15	0.05	0.20	0.31	15	3	0.51	NCHSHT
NAA036_4-12	12	4	6	20188.0	20188.0	0.06%	0.17	0.05	0.22	0.73	20	4	0.95	NCHSHT
NAA046_4-12	12	4	6	22830.2	22830.2	1.09%	0.19	0.06	0.25	0.93	15	3	1.18	NCHSHT
NAA056_4-12	12	4	6	24081.1	24081.1	2.02%	0.17	0.04	0.21	1.54	20	4	1.75	NCHSHT
NAA066_4-12	12	4	6	20638.1	20638.1	0.34%	0.14	0.05	0.20	0.43	15	3	0.62	NCHSHT
NAA076_4-12	12	4	6	20971.4	20971.4	1.05%	0.16	0.06	0.22	5.00	15	3	5.21	NCHSHT
NAA086_4-12	12	4	6	22620.1	22620.1	1.28%	0.14	0.03	0.18	0.86	20	4	1.03	NCHSHT
NAA096_4-12	12	4	6	21886.8	21886.8	2.44%	0.18	0.05	0.24	1.90	20	4	2.14	NCHSHT
NAA0012_4-12	12	4	12	35750.6	35750.6	0.16%	0.29	0.09	0.38	8.53	40	7	8.91	NCHSHT
NAA0112_4-12	12	4	12	40654.2	40654.2	0.54%	0.51	0.29	0.80	20.90	52	9	21.70	NCHSHT
NAA0212_4-12	12	4	12	36841.6	36841.6	0.01%	0.27	0.14	0.42	11.91	80	14	12.33	NCHSHT
NAA0312_4-12	12	4	12	40160.1	40160.1	1.11%	0.40	0.08	0.48	20.16	35	6	20.64	NCHSHT
NAA0412_4-12	12	4	12	41856.2	41856.2	0.39%	0.35	0.07	0.42	17.43	69	12	17.85	NCHSHT
NAA0512_4-12	12	4	12	45169.2	45169.2	0.75%	0.40	0.17	0.57	9.95	58	10	10.52	NCHSHT
NAA0612_4-12	12	4	12	38728.3	38728.3	0.00%	0.31	0.09	0.41	7.80	74	13	8.20	NCHSHT
NAA0712_4-12	12	4	12	41422.2	41422.2	0.00%	0.42	0.11	0.53	6.16	34	6	6.69	NCHSHT
NAA0812_4-12	12	4	12	41192.2	41192.2	0.00%	0.22	0.05	0.27	4.28	63	11	4.56	NCHSHT
NAA0912_4-12	12	4	12	43907.0	43907.0	0.87%	0.39	0.12	0.51	52.60	69	12	53.11	NCHSHT
NAA0018_4-12	12	4	18	54015.7	54015.7	0.30%	0.50	0.19	0.69	12.64	52	7	13.33	NCHSHT
NAA0118_4-12	12	4	18	59405.4	59405.4	0.61%	0.84	0.32	1.17	30.22	74	10	31.38	NCHSHT
NAA0218_4-12	12	4	18	53421.1	53421.1	0.04%	0.49	0.13	0.62	6.25	46	6	6.87	NCHSHT
NAA0318_4-12	12	4	18	61082.8	61082.8	0.90%	0.64	0.17	0.81	33.85	60	8	34.67	NCHSHT
NAA0418_4-12	12	4	18	61763.4	61763.4	0.84%	0.60	0.13	0.74	85.16	82	11	85.90	NCHSHT
NAA0518_4-12	12	4	18	66109.3	66109.3	1.61%	0.57	0.18	0.75	44.51	52	7	45.27	NCHSHT
NAA0618_4-12	12	4	18	58557.7	58557.7	0.51%	0.44	0.14	0.59	13.35	66	9	13.94	NCHSHT
NAA0718_4-12	12	4	18	63956.7	63956.7	0.86%	0.64	0.19	0.82	84.78	60	8	85.61	NCHSHT
NAA0818_4-12	12	4	18	62537.7	62537.7	0.00%	0.45	0.09	0.54	13.98	74	10	14.52	NCHSHT
NAA0918_4-12	12	4	18	63094.9	63094.9	1.24%	0.67	0.15	0.82	50.24	82	11	51.06	NCHSHT
NAA006_4-25	25	4	6	37111.4	37111.4	0.28%	0.32	0.09	0.41	4.96	20	4	5.37	NCHSHT
NAA016_4-25	25	4	6	45185.7	45185.7	0.40%	0.38	0.04	0.42	5.97	20	4	6.39	NCHSHT
NAA026_4-25	25	4	6	42627.0	42627.0	0.62%	0.34	0.14	0.48	8.35	20	4	8.83	NCHSHT
NAA036_4-25	25	4	6	42310.5	42310.5	0.72%	0.31	0.08	0.39	4.76	20	4	5.15	NCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_4-25	25	4	6	42985.4	42985.4	0.37%	0.32	0.05	0.38	2.45	15	3	2.82	NCHSHT
NAA056_4-25	25	4	6	47069.3	47069.3	0.30%	0.32	0.11	0.44	7.25	20	4	7.69	NCHSHT
NAA066_4-25	25	4	6	38256.6	38256.6	1.49%	0.26	0.06	0.32	1.49	20	4	1.81	NCHSHT
NAA076_4-25	25	4	6	42980.2	42980.2	0.59%	0.37	0.06	0.43	4.24	15	3	4.67	NCHSHT
NAA086_4-25	25	4	6	39752.9	39752.9	0.58%	0.31	0.08	0.39	4.61	15	3	5.00	NCHSHT
NAA096_4-25	25	4	6	45445.8	45445.8	0.38%	0.30	0.08	0.38	4.71	25	5	5.10	NCHSHT
NAA0012_4-25	25	4	12	74717.7	74717.7	0.30%	0.68	0.22	0.90	61.45	57	10	62.35	NCHSHT
NAA0112_4-25	25	4	12	82741.2	82741.2	0.72%	0.72	0.14	0.87	124.65	86	15	125.52	NCHSHT
NAA0212_4-25	25	4	12	78272.9	78272.9	0.73%	0.71	0.23	0.94	114.40	74	13	115.34	NCHSHT
NAA0312_4-25	25	4	12	82735.5	82735.5	0.08%	0.53	0.43	0.96	43.48	86	15	44.44	NCHSHT
NAA0412_4-25	25	4	12	83376.2	83376.2	0.34%	0.48	0.14	0.63	27.03	57	10	27.66	NCHSHT
NAA0512_4-25	25	4	12	86273.7	86273.7	0.33%	0.48	0.16	0.64	76.09	46	8	76.73	NCHSHT
NAA0612_4-25	25	4	12	73726.7	73726.7	0.51%	0.44	0.12	0.56	12.57	51	9	13.13	NCHSHT
NAA0712_4-25	25	4	12	83235.4	83235.4	0.21%	0.53	0.17	0.71	56.88	52	9	57.59	NCHSHT
NAA0812_4-25	25	4	12	77859.6	77859.6	0.17%	0.59	0.17	0.77	41.54	46	8	42.31	NCHSHT
NAA0912_4-25	25	4	12	84282.6	84282.6	0.21%	0.69	0.10	0.79	15.79	34	6	16.58	NCHSHT
NAA0018_4-25	25	4	18	108691.4	108691.4	0.38%	1.08	0.17	1.26	56.53	52	7	57.79	NCHSHT
NAA0118_4-25	25	4	18	120541.1	120541.1	0.47%	1.06	0.36	1.42	138.10	76	10	139.53	NCHSHT
NAA0218_4-25	25	4	18	117103.8	117103.8	0.93%	1.20	0.32	1.52	130.85	60	8	132.37	NCHSHT
NAA0318_4-25	25	4	18	121284.5	121284.5	0.49%	1.34	0.39	1.74	64.91	60	8	66.66	NCHSHT
NAA0418_4-25	25	4	18	123762.8	123762.8	0.47%	0.86	0.26	1.12	68.22	46	6	69.34	NCHSHT
NAA0518_4-25	25	4	18	125178.2	125178.2	0.36%	1.20	0.35	1.56	89.73	60	8	91.29	NCHSHT
NAA0618_4-25	25	4	18	110399.2	110399.2	0.13%	0.64	0.13	0.78	51.93	60	8	52.71	NCHSHT
NAA0718_4-25	25	4	18	121930.1	121930.1	0.31%	1.17	0.27	1.45	94.65	90	12	96.10	NCHSHT
NAA0818_4-25	25	4	18	112340.2	112340.2	0.37%	1.07	0.11	1.18	69.17	54	7	70.36	NCHSHT
NAA0918_4-25	25	4	18	124175.1	124175.1	0.25%	1.01	0.28	1.29	41.57	58	8	42.86	NCHSHT
NAA006_4-50	50	4	6	80627.5	80627.5	0.14%	0.53	0.11	0.64	16.82	25	5	17.46	NCHSHT
NAA016_4-50	50	4	6	83557.1	83557.1	0.06%	0.44	0.09	0.54	13.85	15	3	14.39	NCHSHT
NAA026_4-50	50	4	6	85825.7	85825.7	0.25%	0.59	0.08	0.67	17.85	15	3	18.52	NCHSHT
NAA036_4-50	50	4	6	86409.2	86409.2	0.09%	0.52	0.09	0.62	11.01	20	4	11.63	NCHSHT
NAA046_4-50	50	4	6	92652.5	92652.5	0.27%	0.54	0.15	0.70	24.69	15	3	25.39	NCHSHT
NAA056_4-50	50	4	6	87699.6	87699.6	0.48%	0.55	0.07	0.62	19.93	25	5	20.55	NCHSHT
NAA066_4-50	50	4	6	78939.6	78939.6	0.11%	0.46	0.09	0.56	4.70	10	2	5.26	NCHSHT
NAA076_4-50	50	4	6	82469.7	82469.7	0.13%	0.54	0.11	0.65	11.19	20	4	11.85	NCHSHT
NAA086_4-50	50	4	6	82346.8	82346.8	0.18%	0.49	0.13	0.62	14.23	25	5	14.86	NCHSHT
NAA096_4-50	50	4	6	93672.1	93672.1	0.13%	0.46	0.10	0.56	5.74	15	3	6.31	NCHSHT
NAA0012_4-50	50	4	12	158418.6	158418.6	0.14%	1.05	0.23	1.28	97.45	52	9	98.74	NCHSHT
NAA0112_4-50	50	4	12	156428.1	156428.1	0.08%	0.86	0.32	1.19	44.71	40	7	45.89	NCHSHT
NAA0212_4-50	50	4	12	157805.3	157805.3	0.32%	1.13	0.29	1.43	121.02	69	12	122.45	NCHSHT
NAA0312_4-50	50	4	12	165036.3	165036.3	0.08%	1.12	0.15	1.28	64.33	57	10	65.61	NCHSHT
NAA0412_4-50	50	4	12	169485.0	169485.0	0.25%	0.96	0.25	1.21	103.89	52	9	105.11	NCHSHT
NAA0512_4-50	50	4	12	163792.1	163792.1	0.19%	0.99	0.19	1.19	94.80	46	8	95.99	NCHSHT
NAA0612_4-50	50	4	12	149609.3	149609.3	0.02%	0.66	0.13	0.79	32.09	57	10	32.88	NCHSHT
NAA0712_4-50	50	4	12	160462.7	160462.7	0.14%	1.02	0.15	1.18	97.48	57	10	98.66	NCHSHT
NAA0812_4-50	50	4	12	156161.9	156161.9	0.17%	0.99	0.20	1.19	40.80	51	9	42.00	NCHSHT
NAA0912_4-50	50	4	12	171632.3	171632.3	0.03%	0.98	0.17	1.16	47.55	68	12	48.71	NCHSHT
NAA0018_4-50	50	4	18	227000.7	227000.7	0.09%	1.44	0.33	1.78	112.66	68	9	114.44	NCHSHT
NAA0118_4-50	50	4	18	231336.9	231336.9	0.10%	1.34	0.36	1.71	54.36	60	8	56.08	NCHSHT
NAA0218_4-50	50	4	18	236444.9	236444.9	0.29%	1.94	0.44	2.38	175.03	74	10	177.41	NCHSHT
NAA0318_4-50	50	4	18	241991.7	241991.7	0.11%	1.45	0.26	1.72	95.55	82	11	97.27	NCHSHT
NAA0418_4-50	50	4	18	251656.2	251656.2	0.24%	2.03	0.71	2.74	211.28	82	11	214.02	NCHSHT
NAA0518_4-50	50	4	18	242803.3	242803.3	0.21%	1.37	0.33	1.70	116.83	60	8	118.54	NCHSHT
NAA0618_4-50	50	4	18	223255.5	223255.5	0.09%	1.30	0.34	1.65	82.90	60	8	84.55	NCHSHT
NAA0718_4-50	50	4	18	239542.4	239542.4	0.26%	1.79	0.27	2.07	174.34	68	9	176.42	NCHSHT
NAA0818_4-50	50	4	18	226915.0	226915.0	0.08%	1.61	0.32	1.94	68.51	52	7	70.45	NCHSHT
NAA0918_4-50	50	4	18	250516.9	250516.9	0.08%	1.40	0.23	1.64	108.36	60	8	110.00	NCHSHT
NAA006_6-6	6	6	6	9241.8	9241.8	1.91%	0.16	0.04	0.20	0.57	15	3	0.77	NCHSHT
NAA016_6-6	6	6	6	12154.6	12154.6	0.28%	0.22	0.15	0.37	0.58	15	3	0.95	NCHSHT
NAA026_6-6	6	6	6	11161.7	11161.7	0.00%	0.18	0.12	0.30	0.37	20	4	0.67	NCHSHT
NAA036_6-6	6	6	6	13623.7	13623.7	0.02%	0.16	0.06	0.23	0.29	15	3	0.52	NCHSHT
NAA046_6-6	6	6	6	13579.2	13579.2	1.67%	0.19	0.07	0.26	0.58	15	3	0.85	NCHSHT
NAA056_6-6	6	6	6	16566.9	16566.9	5.62%	0.16	0.08	0.24	0.99	20	4	1.23	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%	0.13	0.06	0.19	0.45	15	3	0.64	NCHSHT
NAA076_6-6	6	6	6	14371.7	14371.7	1.98%	0.16	0.06	0.22	0.22	10	2	0.45	NCHSHT
NAA086_6-6	6	6	6	13563.7	13563.7	0.82%	0.21	0.08	0.29	0.65	20	4	0.94	NCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_6-6	6	6	6	15788.0	15788.0	4.04%	0.20	0.07	0.27	0.63	20	4	0.90	NCHSHT
NAA0012_6-6	6	6	12	18934.6	18934.6	0.16%	0.40	0.13	0.53	2.49	35	6	3.02	NCHSHT
NAA0112_6-6	6	6	12	22752.4	22752.4	0.17%	0.42	0.25	0.68	3.38	45	8	4.06	NCHSHT
NAA0212_6-6	6	6	12	22994.8	22994.8	0.21%	0.42	0.17	0.60	3.16	40	7	3.76	NCHSHT
NAA0312_6-6	6	6	12	26185.5	26185.5	0.48%	0.49	0.37	0.87	5.79	68	12	6.66	NCHSHT
NAA0412_6-6	6	6	12	25750.5	25750.5	1.05%	0.48	0.25	0.74	3.84	34	6	4.58	NCHSHT
NAA0512_6-6	6	6	12	26770.1	26770.1	0.35%	0.32	0.13	0.45	2.77	40	7	3.22	NCHSHT
NAA0612_6-6	6	6	12	21802.7	21802.7	0.00%	0.39	0.11	0.50	2.37	40	7	2.87	NCHSHT
NAA0712_6-6	6	6	12	27413.3	27413.3	0.74%	0.41	0.14	0.54	10.06	75	13	10.60	NCHSHT
NAA0812_6-6	6	6	12	24974.6	24974.6	1.16%	0.44	0.25	0.69	5.55	63	11	6.25	NCHSHT
NAA0912_6-6	6	6	12	27929.9	27929.9	0.38%	0.42	0.21	0.63	1.81	34	6	2.44	NCHSHT
NAA0018_6-6	6	6	18	28128.8	28128.8	0.65%	0.87	0.18	1.05	14.57	82	11	15.62	NCHSHT
NAA0118_6-6	6	6	18	34766.1	34766.1	0.29%	0.86	0.38	1.24	9.92	68	9	11.16	NCHSHT
NAA0218_6-6	6	6	18	31395.7	31395.7	0.06%	0.74	0.35	1.09	4.72	44	6	5.81	NCHSHT
NAA0318_6-6	6	6	18	36418.8	36418.8	0.52%	0.86	0.40	1.25	7.88	68	9	9.14	NCHSHT
NAA0418_6-6	6	6	18	37124.4	37124.4	0.33%	1.42	0.33	1.76	10.01	60	8	11.77	NCHSHT
NAA0518_6-6	6	6	18	41476.6	41476.6	0.85%	0.79	0.19	0.99	11.15	52	7	12.13	NCHSHT
NAA0618_6-6	6	6	18	32331.2	32331.2	0.27%	0.51	0.14	0.65	8.39	66	9	9.04	NCHSHT
NAA0718_6-6	6	6	18	39834.2	39834.2	0.05%	0.71	0.24	0.96	12.06	90	12	13.02	NCHSHT
NAA0818_6-6	6	6	18	39856.4	39856.4	1.16%	1.00	0.28	1.29	18.54	96	13	19.83	NCHSHT
NAA0918_6-6	6	6	18	42536.9	42536.9	0.20%	0.88	0.36	1.24	8.02	52	7	9.26	NCHSHT
NAA006_6-12	12	6	6	20344.1	20344.1	1.62%	0.26	0.08	0.35	1.10	15	3	1.45	NCHSHT
NAA016_6-12	12	6	6	20727.1	20727.1	2.47%	0.28	0.17	0.45	1.97	10	2	2.41	NCHSHT
NAA026_6-12	12	6	6	19338.6	19338.6	1.96%	0.23	0.11	0.34	0.78	15	3	1.12	NCHSHT
NAA036_6-12	12	6	6	20085.6	20085.6	0.47%	0.21	0.09	0.30	1.77	20	4	2.07	NCHSHT
NAA046_6-12	12	6	6	18596.0	18596.0	0.56%	0.22	0.09	0.31	0.33	10	2	0.64	NCHSHT
NAA056_6-12	12	6	6	20306.7	20306.7	2.07%	0.23	0.09	0.32	2.74	20	4	3.06	NCHSHT
NAA066_6-12	12	6	6	18236.9	18236.9	1.71%	0.21	0.09	0.30	0.84	15	3	1.14	NCHSHT
NAA076_6-12	12	6	6	23373.6	23373.6	1.26%	0.27	0.07	0.35	1.99	20	4	2.34	NCHSHT
NAA086_6-12	12	6	6	20409.6	20409.6	0.67%	0.26	0.05	0.31	1.53	20	4	1.84	NCHSHT
NAA096_6-12	12	6	6	24032.2	24032.2	1.98%	0.29	0.11	0.40	7.20	20	4	7.60	NCHSHT
NAA0012_6-12	12	6	12	37367.0	37367.0	0.31%	0.53	0.15	0.68	12.04	75	13	12.72	NCHSHT
NAA0112_6-12	12	6	12	39398.8	39398.8	0.27%	0.80	0.19	0.99	9.68	74	13	10.67	NCHSHT
NAA0212_6-12	12	6	12	36881.4	36881.4	0.16%	0.51	0.23	0.75	139.70	114	20	140.45	NCHSHT
NAA0312_6-12	12	6	12	39882.5	39882.5	0.49%	0.53	0.17	0.70	14.23	57	10	14.93	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%	0.50	0.15	0.66	4.15	23	4	4.81	NCHSHT
NAA0512_6-12	12	6	12	41516.6	41516.6	1.52%	0.47	0.15	0.62	70.40	47	8	71.03	NCHSHT
NAA0612_6-12	12	6	12	34436.2	34436.2	0.45%	0.48	0.11	0.59	4.80	46	8	5.39	NCHSHT
NAA0712_6-12	12	6	12	45582.6	45582.6	0.62%	0.60	0.25	0.85	44.91	80	14	45.76	NCHSHT
NAA0812_6-12	12	6	12	38110.3	38110.3	0.18%	0.56	0.30	0.86	11.93	63	11	12.79	NCHSHT
NAA0912_6-12	12	6	12	43289.9	43289.9	0.34%	0.52	0.39	0.92	18.89	69	12	19.82	NCHSHT
NAA0018_6-12	12	6	18	56204.0	56204.0	0.88%	1.03	0.29	1.33	34.39	74	10	35.72	NCHSHT
NAA0118_6-12	12	6	18	61046.0	61046.0	0.89%	1.06	0.32	1.39	26.95	74	10	28.34	NCHSHT
NAA0218_6-12	12	6	18	54547.2	54547.2	0.19%	0.92	0.27	1.20	20.42	52	7	21.62	NCHSHT
NAA0318_6-12	12	6	18	56964.7	56964.7	0.39%	0.64	0.49	1.13	18.23	60	8	19.36	NCHSHT
NAA0418_6-12	12	6	18	52291.3	52291.3	0.37%	1.17	0.53	1.70	14.01	54	7	15.72	NCHSHT
NAA0518_6-12	12	6	18	61809.9	61809.9	0.86%	0.82	0.27	1.10	18.96	74	10	20.07	NCHSHT
NAA0618_6-12	12	6	18	53842.5	53842.5	0.02%	0.93	0.17	1.11	9.66	52	7	10.78	NCHSHT
NAA0718_6-12	12	6	18	66630.1	66630.1	1.15%	1.16	0.58	1.74	143.34	104	14	145.09	NCHSHT
NAA0818_6-12	12	6	18	56723.5	56723.5	1.04%	1.09	0.27	1.37	43.59	90	12	44.97	NCHSHT
NAA0918_6-12	12	6	18	64908.3	64908.3	0.85%	1.14	0.49	1.64	45.55	90	12	47.19	NCHSHT
NAA006_6-25	25	6	6	39224.1	39224.1	0.71%	0.46	0.14	0.61	22.35	15	3	22.95	NCHSHT
NAA016_6-25	25	6	6	39639.9	39639.9	0.56%	0.39	0.15	0.54	23.06	30	6	23.60	NCHSHT
NAA026_6-25	25	6	6	41170.8	41170.8	0.24%	0.52	0.16	0.68	9.92	20	4	10.60	NCHSHT
NAA036_6-25	25	6	6	40456.3	40456.3	0.36%	0.54	0.10	0.64	10.67	20	4	11.31	NCHSHT
NAA046_6-25	25	6	6	42298.5	42298.5	0.15%	0.70	0.13	0.83	1.86	15	3	2.69	NCHSHT
NAA056_6-25	25	6	6	40378.5	40378.5	1.17%	0.42	0.12	0.54	20.64	20	4	21.18	NCHSHT
NAA066_6-25	25	6	6	38492.0	38492.0	0.15%	0.38	0.10	0.48	9.12	25	5	9.60	NCHSHT
NAA076_6-25	25	6	6	42461.8	42461.8	0.34%	0.53	0.06	0.60	4.17	20	4	4.77	NCHSHT
NAA086_6-25	25	6	6	40326.8	40326.8	0.73%	0.42	0.19	0.61	9.88	20	4	10.50	NCHSHT
NAA096_6-25	25	6	6	42315.6	42315.6	1.42%	0.65	0.11	0.76	11.20	30	6	11.96	NCHSHT
NAA0012_6-25	25	6	12	76320.0	76320.0	0.64%	0.85	0.28	1.13	95.47	92	16	96.61	NCHSHT
NAA0112_6-25	25	6	12	78967.4	78967.4	1.10%	1.00	0.54	1.55	129.27	63	11	130.83	NCHSHT
NAA0212_6-25	25	6	12	79994.3	79994.3	0.95%	1.11	0.23	1.34	102.38	69	12	103.73	NCHSHT
NAA0312_6-25	25	6	12	77407.8	77407.8	0.83%	0.93	0.24	1.17	132.95	75	13	134.13	NCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_6-25	25	6	12	80594.1	80594.1	0.79%	0.87	0.32	1.19	135.05	69	12	136.25	NCHSHT
NAA0512_6-25	25	6	12	76430.3	76430.3	0.71%	0.77	0.14	0.91	62.69	57	10	63.60	NCHSHT
NAA0612_6-25	25	6	12	73935.8	73935.8	0.70%	0.80	0.24	1.04	84.30	57	10	85.35	NCHSHT
NAA0712_6-25	25	6	12	77742.0	77742.0	0.32%	0.82	0.23	1.06	30.22	63	11	31.28	NCHSHT
NAA0812_6-25	25	6	12	74601.0	74601.0	0.29%	0.85	0.33	1.19	60.13	58	10	61.32	NCHSHT
NAA0912_6-25	25	6	12	82136.2	82136.2	0.97%	1.01	0.28	1.30	153.16	97	17	154.46	NCHSHT
NAA0018_6-25	25	6	18	111024.8	111024.8	0.93%	1.63	1.16	2.79	116.08	60	8	118.87	NCHSHT
NAA0118_6-25	25	6	18	117171.1	117171.1	0.91%	1.49	0.38	1.88	206.75	104	14	208.63	NCHSHT
NAA0218_6-25	25	6	18	119956.3	119956.3	0.71%	1.64	0.47	2.12	125.95	60	8	128.07	NCHSHT
NAA0318_6-25	25	6	18	116208.8	116208.8	0.78%	1.97	0.61	2.58	243.91	92	12	246.49	NCHSHT
NAA0418_6-25	25	6	18	119896.7	119896.7	0.47%	1.56	0.72	2.29	141.07	68	9	143.36	NCHSHT
NAA0518_6-25	25	6	18	117058.1	117058.1	0.46%	1.34	0.37	1.72	79.89	60	8	81.61	NCHSHT
NAA0618_6-25	25	6	18	108426.7	108426.7	0.61%	1.55	0.39	1.94	80.65	46	6	82.59	NCHSHT
NAA0718_6-25	25	6	18	114547.1	114547.1	0.35%	1.26	0.40	1.68	56.72	82	11	58.41	NCHSHT
NAA0818_6-25	25	6	18	108302.1	108302.1	0.92%	1.43	0.63	2.06	157.26	76	10	159.33	NCHSHT
NAA0918_6-25	25	6	18	121933.3	121933.3	0.91%	1.73	0.41	2.14	192.35	76	10	194.49	NCHSHT
NAA006_6-50	50	6	6	74042.9	74042.9	0.16%	0.67	0.29	0.97	14.94	15	3	15.91	NCHSHT
NAA016_6-50	50	6	6	76283.7	76283.7	0.39%	0.66	0.21	0.88	20.73	20	4	21.61	NCHSHT
NAA026_6-50	50	6	6	79033.4	79033.4	0.47%	0.75	0.17	0.94	62.76	20	4	63.70	NCHSHT
NAA036_6-50	50	6	6	77491.7	77491.7	0.01%	0.68	0.13	0.81	18.97	20	4	19.78	NCHSHT
NAA046_6-50	50	6	6	79531.5	79531.5	0.22%	0.90	0.27	1.17	20.49	15	3	21.67	NCHSHT
NAA056_6-50	50	6	6	79945.3	79945.3	0.25%	0.75	0.13	0.87	46.48	20	4	47.36	NCHSHT
NAA066_6-50	50	6	6	76773.7	76773.7	0.35%	0.98	0.42	1.40	32.05	20	4	33.45	NCHSHT
NAA076_6-50	50	6	6	80960.3	80960.3	0.16%	0.61	0.11	0.73	9.60	20	4	10.33	NCHSHT
NAA086_6-50	50	6	6	75696.5	75696.5	0.21%	0.66	0.17	0.83	24.37	25	5	25.20	NCHSHT
NAA096_6-50	50	6	6	76799.7	76799.7	0.16%	0.87	0.24	1.11	11.40	15	3	12.52	NCHSHT
NAA0012_6-50	50	6	12	144442.6	144442.6	0.06%	1.01	0.50	1.52	39.05	40	7	40.58	NCHSHT
NAA0112_6-50	50	6	12	147456.2	147456.2	0.19%	1.31	0.53	1.85	134.68	69	12	136.54	NCHSHT
NAA0212_6-50	50	6	12	151992.1	151992.1	0.24%	1.55	0.59	2.15	122.38	57	10	124.53	NCHSHT
NAA0312_6-50	50	6	12	150832.6	150832.6	0.31%	1.46	0.26	1.73	112.95	52	9	114.68	NCHSHT
NAA0412_6-50	50	6	12	157314.9	157314.9	0.32%	1.44	0.64	2.10	142.36	63	11	144.46	NCHSHT
NAA0512_6-50	50	6	12	153781.5	153781.5	0.45%	1.36	0.41	1.78	169.14	70	12	170.93	NCHSHT
NAA0612_6-50	50	6	12	145998.1	145998.1	0.55%	1.49	0.74	2.23	158.72	63	11	160.95	NCHSHT
NAA0712_6-50	50	6	12	155900.1	155900.1	0.18%	1.43	0.18	1.61	100.10	63	11	101.71	NCHSHT
NAA0812_6-50	50	6	12	142383.3	142383.3	0.16%	1.10	0.48	1.58	115.68	86	15	117.28	NCHSHT
NAA0912_6-50	50	6	12	149461.7	149461.7	0.21%	1.13	0.66	1.80	90.46	46	8	92.26	NCHSHT
NAA0018_6-50	50	6	18	214413.7	214413.7	0.17%	1.98	0.52	2.51	107.32	52	7	109.84	NCHSHT
NAA0118_6-50	50	6	18	216236.6	216236.6	0.14%	2.27	1.03	3.30	132.65	74	10	135.96	NCHSHT
NAA0218_6-50	50	6	18	221983.8	221983.8	0.26%	2.28	2.45	4.74	173.95	76	10	178.70	NCHSHT
NAA0318_6-50	50	6	18	224324.5	224324.5	0.31%	2.56	0.66	3.22	174.06	76	10	177.29	NCHSHT
NAA0418_6-50	50	6	18	234060.5	234060.5	0.25%	2.65	1.70	4.37	194.25	60	8	198.62	NCHSHT
NAA0518_6-50	50	6	18	223547.3	223547.3	0.35%	2.87	1.01	3.88	156.24	60	8	160.13	NCHSHT
NAA0618_6-50	50	6	18	217291.0	217291.0	0.48%	3.14	1.89	5.05	313.13	92	12	318.18	NCHSHT
NAA0718_6-50	50	6	18	228987.4	228987.4	0.22%	2.26	0.63	2.90	168.01	68	9	170.92	NCHSHT
NAA0818_6-50	50	6	18	213023.0	213023.0	0.16%	1.83	0.48	2.32	151.30	82	11	153.63	NCHSHT
NAA0918_6-50	50	6	18	222614.6	222614.6	0.13%	2.26	1.17	3.44	103.20	68	9	106.66	NCHSHT
NAB006_2-6	6	2	6	14649.9	14649.9	4.24%	0.09	0.02	0.11	0.21	10	2	0.32	NCHSLT
NAB016_2-6	6	2	6	11405.1	11405.1	3.81%	0.12	0.02	0.14	0.20	10	2	0.34	NCHSLT
NAB026_2-6	6	2	6	14761.3	14761.3	1.20%	0.09	0.02	0.11	0.51	20	4	0.62	NCHSLT
NAB036_2-6	6	2	6	15128.8	15128.8	1.01%	0.09	0.02	0.12	0.48	30	6	0.60	NCHSLT
NAB046_2-6	6	2	6	16762.9	16762.9	2.10%	0.11	0.02	0.13	0.44	15	3	0.57	NCHSLT
NAB056_2-6	6	2	6	17113.4	17113.4	3.25%	0.10	0.03	0.13	0.28	10	2	0.41	NCHSLT
NAB066_2-6	6	2	6	15888.8	15888.8	0.00%	0.12	0.03	0.15	0.36	15	3	0.51	NCHSLT
NAB076_2-6	6	2	6	16549.2	16549.2	0.52%	0.10	0.02	0.12	0.21	10	2	0.33	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%	0.08	0.02	0.10	0.09	10	2	0.19	NCHSLT
NAB096_2-6	6	2	6	13205.1	13205.1	2.44%	0.09	0.04	0.13	0.12	10	2	0.25	NCHSLT
NAB0012_2-6	6	2	12	24378.5	24378.5	0.39%	0.21	0.03	0.24	2.79	69	12	3.02	NCHSLT
NAB0112_2-6	6	2	12	23789.0	23789.0	1.95%	0.20	0.03	0.23	2.01	40	7	2.24	NCHSLT
NAB0212_2-6	6	2	12	27195.0	27195.0	1.69%	0.18	0.03	0.22	1.48	34	6	1.70	NCHSLT
NAB0312_2-6	6	2	12	27256.2	27256.2	1.55%	0.25	0.04	0.29	1.57	35	6	1.87	NCHSLT
NAB0412_2-6	6	2	12	27119.2	27119.2	0.76%	0.24	0.03	0.27	6.60	68	12	6.87	NCHSLT
NAB0512_2-6	6	2	12	31403.0	31403.0	1.77%	0.19	0.04	0.23	6.00	68	12	6.24	NCHSLT
NAB0612_2-6	6	2	12	28311.3	28311.3	1.05%	0.16	0.04	0.20	2.89	51	9	3.10	NCHSLT
NAB0712_2-6	6	2	12	26981.6	26981.6	0.23%	0.22	0.03	0.25	0.89	23	4	1.14	NCHSLT
NAB0812_2-6	6	2	12	22037.7	22037.7	0.16%	0.15	0.04	0.18	2.00	74	13	2.18	NCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_2-6	6	2	12	27122.8	27122.8	0.49%	0.21	0.04	0.25	2.48	46	8	2.73	NCHSLT
NAB0018_2-6	6	2	18	33525.5	33525.5	1.23%	0.40	0.05	0.45	9.63	82	11	10.09	NCHSLT
NAB0118_2-6	6	2	18	33970.1	33970.1	1.36%	0.33	0.05	0.38	6.08	60	8	6.46	NCHSLT
NAB0218_2-6	6	2	18	39510.6	39510.6	0.36%	0.25	0.07	0.32	2.14	44	6	2.46	NCHSLT
NAB0318_2-6	6	2	18	78260391.7	78260391.7	227.78%	0.31	0.05	0.35	3.10	44	6	3.45	NCHSLT
NAB0418_2-6	6	2	18	36909.1	36909.1	0.61%	0.46	0.05	0.51	3.99	52	7	4.51	NCHSLT
NAB0518_2-6	6	2	18	42565.7	42565.7	0.37%	0.27	0.09	0.36	4.63	68	9	4.99	NCHSLT
NAB0618_2-6	6	2	18	39076.4	39076.4	0.80%	0.29	0.05	0.34	4.18	60	8	4.52	NCHSLT
NAB0718_2-6	6	2	18	39186.7	39186.7	0.95%	0.33	0.07	0.40	3.66	44	6	4.06	NCHSLT
NAB0818_2-6	6	2	18	32125.8	32125.8	1.62%	0.22	0.05	0.27	2.52	58	8	2.80	NCHSLT
NAB0918_2-6	6	2	18	36153.9	36153.9	0.32%	0.21	0.07	0.28	2.51	46	6	2.80	NCHSLT
NAB006_2-12	12	2	6	21907.5	21907.5	0.54%	0.16	0.03	0.18	0.39	10	2	0.58	NCHSLT
NAB016_2-12	12	2	6	24372.8	24372.8	0.26%	0.12	0.03	0.15	0.49	15	3	0.65	NCHSLT
NAB026_2-12	12	2	6	25670.0	25670.0	0.66%	0.18	0.03	0.21	0.79	20	4	1.00	NCHSLT
NAB036_2-12	12	2	6	29599.2	29599.2	0.96%	0.11	0.03	0.14	0.67	15	3	0.81	NCHSLT
NAB046_2-12	12	2	6	25374.6	25374.6	0.64%	0.14	0.02	0.17	0.28	10	2	0.45	NCHSLT
NAB056_2-12	12	2	6	29133.3	29133.3	0.29%	0.15	0.03	0.18	0.72	15	3	0.90	NCHSLT
NAB066_2-12	12	2	6	25555.1	25555.1	0.58%	0.13	0.02	0.16	0.34	15	3	0.50	NCHSLT
NAB076_2-12	12	2	6	25737.7	25737.7	1.15%	0.13	0.02	0.16	0.35	10	2	0.51	NCHSLT
NAB086_2-12	12	2	6	23303.5	23303.5	0.00%	0.13	0.02	0.15	0.16	10	2	0.32	NCHSLT
NAB096_2-12	12	2	6	27632.7	27632.7	1.43%	0.15	0.02	0.18	0.50	10	2	0.68	NCHSLT
NAB0012_2-12	12	2	12	41458.4	41458.4	0.79%	0.25	0.04	0.29	4.36	41	7	4.65	NCHSLT
NAB0112_2-12	12	2	12	41986.1	41986.1	0.91%	0.21	0.05	0.26	3.35	34	6	3.61	NCHSLT
NAB0212_2-12	12	2	12	44378.5	44378.5	0.88%	0.25	0.07	0.32	6.58	51	9	6.90	NCHSLT
NAB0312_2-12	12	2	12	53360.0	53360.0	0.67%	0.29	0.04	0.33	4.24	40	7	4.58	NCHSLT
NAB0412_2-12	12	2	12	45383.7	45383.7	0.65%	0.23	0.06	0.29	4.68	57	10	4.96	NCHSLT
NAB0512_2-12	12	2	12	52640.0	52640.0	0.88%	0.30	0.06	0.35	31.43	80	14	31.78	NCHSLT
NAB0612_2-12	12	2	12	46164.2	46164.2	0.95%	0.45	0.08	0.53	6.40	40	7	6.94	NCHSLT
NAB0712_2-12	12	2	12	47665.0	47665.0	0.25%	0.26	0.04	0.31	3.42	35	6	3.74	NCHSLT
NAB0812_2-12	12	2	12	42043.4	42043.4	0.42%	0.20	0.06	0.26	4.68	40	7	4.95	NCHSLT
NAB0912_2-12	12	2	12	51268.2	51268.2	1.45%	0.33	0.05	0.38	10.11	40	7	10.49	NCHSLT
NAB0018_2-12	12	2	18	61019.7	61019.7	0.35%	0.45	0.05	0.50	15.03	60	8	15.53	NCHSLT
NAB0118_2-12	12	2	18	61949.6	61949.6	0.01%	0.40	0.09	0.49	6.21	38	5	6.71	NCHSLT
NAB0218_2-12	12	2	18	65743.0	65743.0	0.82%	0.44	0.07	0.51	20.68	100	13	21.19	NCHSLT
NAB0318_2-12	12	2	18	76212.3	76212.3	1.20%	0.34	0.06	0.41	17.01	60	8	17.41	NCHSLT
NAB0418_2-12	12	2	18	68060.1	68060.1	0.85%	0.36	0.06	0.43	12.29	60	8	12.71	NCHSLT
NAB0518_2-12	12	2	18	74697.9	74697.9	1.10%	0.41	0.09	0.51	40.66	82	11	41.17	NCHSLT
NAB0618_2-12	12	2	18	66624.3	66624.3	1.05%	0.42	0.10	0.51	24.08	38	5	24.59	NCHSLT
NAB0718_2-12	12	2	18	67794.6	67794.6	0.01%	0.29	0.08	0.37	5.61	52	7	5.98	NCHSLT
NAB0818_2-12	12	2	18	64964.8	64964.8	0.20%	0.26	0.07	0.33	31.92	52	7	32.25	NCHSLT
NAB0918_2-12	12	2	18	73264.0	73264.0	0.80%	0.69	0.10	0.80	29.27	66	9	30.06	NCHSLT
NAB006_2-25	25	2	6	48601.6	48601.6	0.47%	0.23	0.03	0.27	1.00	10	2	1.27	NCHSLT
NAB016_2-25	25	2	6	49254.2	49254.2	0.10%	0.19	0.03	0.22	1.39	20	4	1.62	NCHSLT
NAB026_2-25	25	2	6	52117.9	52117.9	0.12%	0.26	0.04	0.30	2.01	25	5	2.31	NCHSLT
NAB036_2-25	25	2	6	54323.7	54323.7	1.17%	0.22	0.04	0.26	1.94	15	3	2.20	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%	0.27	0.02	0.29	1.37	15	3	1.66	NCHSLT
NAB056_2-25	25	2	6	57763.4	57763.4	0.60%	0.28	0.05	0.33	1.48	15	3	1.81	NCHSLT
NAB066_2-25	25	2	6	46949.7	46949.7	0.88%	0.21	0.03	0.25	0.95	15	3	1.19	NCHSLT
NAB076_2-25	25	2	6	52373.6	52373.6	0.31%	0.25	0.05	0.30	1.39	10	2	1.69	NCHSLT
NAB086_2-25	25	2	6	55594.2	55594.2	1.07%	0.29	0.04	0.33	1.79	15	3	2.12	NCHSLT
NAB096_2-25	25	2	6	60508.2	60508.2	0.16%	0.24	0.03	0.27	1.51	15	3	1.79	NCHSLT
NAB0012_2-25	25	2	12	89461.4	89461.4	0.22%	0.43	0.06	0.49	27.26	34	6	27.75	NCHSLT
NAB0112_2-25	25	2	12	94916.4	94916.4	0.18%	0.45	0.07	0.52	18.93	57	10	19.46	NCHSLT
NAB0212_2-25	25	2	12	91893.8	91893.8	0.54%	0.46	0.08	0.54	48.47	63	11	49.02	NCHSLT
NAB0312_2-25	25	2	12	95773.4	95773.4	0.78%	0.44	0.08	0.52	37.97	63	11	38.49	NCHSLT
NAB0412_2-25	25	2	12	94777.7	94777.7	0.60%	0.47	0.08	0.55	24.36	40	7	24.91	NCHSLT
NAB0512_2-25	25	2	12	107527.8	107527.8	0.76%	0.58	0.08	0.66	120.12	75	13	120.78	NCHSLT
NAB0612_2-25	25	2	12	90862.3	90862.3	0.17%	0.45	0.11	0.56	6.47	35	6	7.04	NCHSLT
NAB0712_2-25	25	2	12	96728.3	96728.3	0.35%	0.47	0.06	0.53	36.97	80	14	37.51	NCHSLT
NAB0812_2-25	25	2	12	99032.4	99032.4	0.21%	0.57	0.06	0.63	35.35	74	13	35.98	NCHSLT
NAB0912_2-25	25	2	12	104507.2	104507.2	0.41%	0.50	0.08	0.58	66.23	62	11	66.81	NCHSLT
NAB0018_2-25	25	2	18	129926.8	129926.8	0.37%	0.63	0.16	0.79	71.62	62	8	72.42	NCHSLT
NAB0118_2-25	25	2	18	133569.4	133569.4	0.29%	0.56	0.13	0.69	49.89	82	11	50.58	NCHSLT
NAB0218_2-25	25	2	18	131498.8	131498.8	0.46%	0.83	0.20	1.04	42.19	38	5	43.23	NCHSLT
NAB0318_2-25	25	2	18	143540.0	143540.0	0.38%	0.56	0.10	0.67	97.66	104	14	98.33	NCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_2-25	25	2	18	138312.7	138312.7	0.60%	0.98	0.17	1.15	56.10	60	8	57.25	NCHSLT
NAB0518_2-25	25	2	18	150942.0	150942.0	1.01%	0.78	0.22	1.00	103.49	68	9	104.50	NCHSLT
NAB0618_2-25	25	2	18	128239.8	128239.8	0.38%	0.62	0.12	0.75	43.76	52	7	44.52	NCHSLT
NAB0718_2-25	25	2	18	142496.2	142496.2	0.56%	0.82	0.11	0.93	192.73	98	13	193.66	NCHSLT
NAB0818_2-25	25	2	18	140273.7	140273.7	0.31%	0.82	0.09	0.92	79.46	68	9	80.37	NCHSLT
NAB0918_2-25	25	2	18	149812.9	149812.9	0.49%	0.91	0.08	0.98	54.30	76	10	55.29	NCHSLT
NAB006_2-50	50	2	6	95675.3	95675.3	0.45%	0.45	0.07	0.53	2.43	15	3	2.96	NCHSLT
NAB016_2-50	50	2	6	99083.7	99083.7	0.16%	0.41	0.08	0.48	2.09	15	3	2.58	NCHSLT
NAB026_2-50	50	2	6	96167.6	96167.6	0.07%	0.48	0.04	0.52	1.90	15	3	2.42	NCHSLT
NAB036_2-50	50	2	6	104332.7	104332.7	0.29%	0.45	0.07	0.52	3.52	15	3	4.04	NCHSLT
NAB046_2-50	50	2	6	109555.1	109555.1	0.34%	0.43	0.08	0.52	17.36	15	3	17.88	NCHSLT
NAB056_2-50	50	2	6	107872.8	107872.8	0.69%	0.43	0.08	0.51	4.54	10	2	5.06	NCHSLT
NAB066_2-50	50	2	6	96703.8	96703.8	0.32%	0.39	0.04	0.44	3.89	10	2	4.33	NCHSLT
NAB076_2-50	50	2	6	103611.3	103611.3	0.28%	0.43	0.06	0.50	15.26	20	4	15.76	NCHSLT
NAB086_2-50	50	2	6	101275.1	101275.1	0.25%	0.42	0.08	0.50	3.96	15	3	4.47	NCHSLT
NAB096_2-50	50	2	6	105188.9	105188.9	0.23%	0.41	0.06	0.47	1.79	10	2	2.26	NCHSLT
NAB0012_2-50	50	2	12	178181.3	178181.3	0.22%	0.60	0.18	0.78	84.35	68	12	85.13	NCHSLT
NAB0112_2-50	50	2	12	185382.0	185382.0	0.02%	0.56	0.06	0.63	16.13	52	9	16.76	NCHSLT
NAB0212_2-50	50	2	12	178460.9	178460.9	0.16%	0.92	0.14	1.06	49.15	40	7	50.22	NCHSLT
NAB0312_2-50	50	2	12	191250.0	191250.0	0.22%	0.65	0.13	0.78	56.99	45	8	57.77	NCHSLT
NAB0412_2-50	50	2	12	197432.7	197432.7	0.38%	0.93	0.19	1.12	111.46	57	10	112.58	NCHSLT
NAB0512_2-50	50	2	12	195329.9	195329.9	0.39%	0.80	0.10	0.91	80.70	40	7	81.61	NCHSLT
NAB0612_2-50	50	2	12	175767.3	175767.3	0.13%	0.69	0.11	0.80	40.31	57	10	41.11	NCHSLT
NAB0712_2-50	50	2	12	187135.3	187135.3	0.36%	1.16	0.13	1.29	85.06	34	6	86.35	NCHSLT
NAB0812_2-50	50	2	12	180979.2	180979.2	0.08%	0.78	0.17	0.95	54.88	57	10	55.83	NCHSLT
NAB0912_2-50	50	2	12	192202.4	192202.4	0.20%	0.84	0.12	0.97	63.11	46	8	64.08	NCHSLT
NAB0018_2-50	50	2	18	260342.4	260342.4	0.03%	0.75	0.14	0.90	57.54	52	7	58.44	NCHSLT
NAB0118_2-50	50	2	18	269112.1	269112.1	0.14%	1.21	0.26	1.47	128.02	68	9	129.50	NCHSLT
NAB0218_2-50	50	2	18	258208.3	258208.3	0.14%	1.01	0.21	1.22	106.38	74	10	107.60	NCHSLT
NAB0318_2-50	50	2	18	280603.6	280603.6	0.13%	1.02	0.20	1.23	81.60	38	5	82.83	NCHSLT
NAB0418_2-50	50	2	18	287498.4	287498.4	0.33%	1.66	0.32	1.98	204.78	46	6	206.76	NCHSLT
NAB0518_2-50	50	2	18	284895.2	284895.2	0.15%	1.01	0.15	1.17	86.90	38	5	88.07	NCHSLT
NAB0618_2-50	50	2	18	257547.5	257547.5	0.11%	1.02	0.18	1.20	107.73	74	10	108.93	NCHSLT
NAB0718_2-50	50	2	18	271294.9	271294.9	0.18%	1.28	0.23	1.52	163.27	52	7	164.78	NCHSLT
NAB0818_2-50	50	2	18	264173.1	264173.1	0.12%	1.03	0.18	1.21	93.01	52	7	94.22	NCHSLT
NAB0918_2-50	50	2	18	280218.7	280218.7	0.21%	1.38	0.26	1.64	148.77	68	9	150.41	NCHSLT
NAB006_4-6	6	4	6	9771.5	9771.5	1.14%	0.12	0.03	0.15	0.31	10	2	0.46	NCHSLT
NAB016_4-6	6	4	6	12101.8	12101.8	0.51%	0.17	0.05	0.22	0.38	10	2	0.61	NCHSLT
NAB026_4-6	6	4	6	12071.6	12071.6	0.33%	0.18	0.04	0.22	0.20	10	2	0.42	NCHSLT
NAB036_4-6	6	4	6	12763.3	12763.3	1.17%	0.14	0.03	0.17	0.40	20	4	0.57	NCHSLT
NAB046_4-6	6	4	6	10860.1	10860.1	0.69%	0.16	0.04	0.21	0.42	10	2	0.63	NCHSLT
NAB056_4-6	6	4	6	15924.0	15924.0	3.41%	0.12	0.03	0.16	0.54	20	4	0.70	NCHSLT
NAB066_4-6	6	4	6	12811.3	12811.3	3.37%	0.15	0.05	0.20	0.33	10	2	0.54	NCHSLT
NAB076_4-6	6	4	6	13950.3	13950.3	0.06%	0.10	0.05	0.15	0.15	10	2	0.31	NCHSLT
NAB086_4-6	6	4	6	9947.1	9947.1	0.00%	0.12	0.04	0.16	0.29	20	4	0.45	NCHSLT
NAB096_4-6	6	4	6	14732.9	14732.9	0.14%	0.13	0.04	0.17	0.24	15	3	0.41	NCHSLT
NAB0012_4-6	6	4	12	17926.2	17926.2	0.26%	0.27	0.09	0.36	1.94	34	6	2.30	NCHSLT
NAB0112_4-6	6	4	12	25098.2	25098.2	0.00%	0.36	0.12	0.48	3.66	34	6	4.14	NCHSLT
NAB0212_4-6	6	4	12	23291.6	23291.6	0.51%	0.32	0.08	0.41	3.89	40	7	4.30	NCHSLT
NAB0312_4-6	6	4	12	25763.0	25763.0	0.61%	0.43	0.07	0.51	1.48	34	6	1.99	NCHSLT
NAB0412_4-6	6	4	12	24197.2	24197.2	2.76%	0.28	0.07	0.35	6.66	46	8	7.02	NCHSLT
NAB0512_4-6	6	4	12	30935.1	30935.1	2.16%	0.31	0.08	0.39	3.49	57	10	3.88	NCHSLT
NAB0612_4-6	6	4	12	21962.0	21962.0	0.17%	0.31	0.09	0.40	3.55	69	12	3.95	NCHSLT
NAB0712_4-6	6	4	12	24999.9	24999.9	1.72%	0.22	0.08	0.30	2.10	40	7	2.40	NCHSLT
NAB0812_4-6	6	4	12	21053.3	21053.3	0.01%	0.26	0.07	0.33	3.94	46	8	4.28	NCHSLT
NAB0912_4-6	6	4	12	26023.8	26023.8	0.44%	0.31	0.07	0.39	1.69	46	8	2.08	NCHSLT
NAB0018_4-6	6	4	18	27562.8	27562.8	0.25%	0.53	0.11	0.64	7.51	74	10	8.15	NCHSLT
NAB0118_4-6	6	4	18	33526.3	33526.3	0.75%	0.85	0.18	1.03	11.55	74	10	12.58	NCHSLT
NAB0218_4-6	6	4	18	33421.9	33421.9	0.32%	0.71	0.13	0.84	6.46	52	7	7.30	NCHSLT
NAB0318_4-6	6	4	18	39032.3	39032.3	0.23%	0.50	0.11	0.61	9.46	60	8	10.08	NCHSLT
NAB0418_4-6	6	4	18	35283.4	35283.4	0.79%	0.66	0.12	0.78	14.84	68	9	15.62	NCHSLT
NAB0518_4-6	6	4	18	43206.4	43206.4	0.40%	0.50	0.16	0.66	6.22	52	7	6.89	NCHSLT
NAB0618_4-6	6	4	18	34297.4	34297.4	0.47%	0.54	0.17	0.72	12.45	82	11	13.17	NCHSLT
NAB0718_4-6	6	4	18	37276.0	37276.0	0.03%	0.65	0.17	0.82	8.37	68	9	9.19	NCHSLT
NAB0818_4-6	6	4	18	28333.6	28333.6	1.01%	0.43	0.18	0.61	4.67	66	9	5.28	NCHSLT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_4-6	6	4	18	38345.2	38345.2	0.51%	0.59	0.10	0.69	4.63	60	8	5.32	NCHSLT
NAB006_4-12	12	4	6	20484.1	20484.1	0.21%	0.18	0.04	0.23	0.95	15	3	1.18	NCHSLT
NAB016_4-12	12	4	6	23869.3	23869.3	0.78%	0.24	0.06	0.30	9.66	20	4	9.97	NCHSLT
NAB026_4-12	12	4	6	18953.3	18953.3	0.85%	0.17	0.06	0.22	0.76	15	3	0.99	NCHSLT
NAB036_4-12	12	4	6	21105.6	21105.6	1.77%	0.20	0.04	0.25	1.41	20	4	1.67	NCHSLT
NAB046_4-12	12	4	6	23013.4	23013.4	0.00%	0.23	0.05	0.29	0.99	20	4	1.27	NCHSLT
NAB056_4-12	12	4	6	24621.7	24621.7	1.76%	0.24	0.05	0.29	1.86	20	4	2.15	NCHSLT
NAB066_4-12	12	4	6	21581.4	21581.4	1.30%	0.19	0.06	0.25	0.78	15	3	1.03	NCHSLT
NAB076_4-12	12	4	6	21636.0	21636.0	0.15%	0.21	0.07	0.28	2.29	15	3	2.57	NCHSLT
NAB086_4-12	12	4	6	22811.2	22811.2	0.63%	0.16	0.05	0.21	0.82	15	3	1.03	NCHSLT
NAB096_4-12	12	4	6	22807.3	22807.3	1.66%	0.20	0.06	0.26	1.98	15	3	2.23	NCHSLT
NAB0012_4-12	12	4	12	36591.5	36591.5	0.00%	0.44	0.07	0.51	25.23	57	10	25.74	NCHSLT
NAB0112_4-12	12	4	12	41832.9	41832.9	1.20%	0.59	0.16	0.75	51.51	52	9	52.26	NCHSLT
NAB0212_4-12	12	4	12	37570.8	37570.8	0.39%	0.37	0.11	0.48	7.79	51	9	8.28	NCHSLT
NAB0312_4-12	12	4	12	41445.5	41445.5	1.16%	0.41	0.18	0.58	11.23	23	4	11.81	NCHSLT
NAB0412_4-12	12	4	12	42544.5	42544.5	0.10%	0.41	0.14	0.55	10.89	40	7	11.44	NCHSLT
NAB0512_4-12	12	4	12	46978.9	46978.9	2.19%	0.48	0.09	0.58	25.36	46	8	25.95	NCHSLT
NAB0612_4-12	12	4	12	40421.3	40421.3	0.77%	0.34	0.15	0.49	11.41	51	9	11.90	NCHSLT
NAB0712_4-12	12	4	12	43263.3	43263.3	1.41%	0.43	0.14	0.57	59.78	63	11	60.35	NCHSLT
NAB0812_4-12	12	4	12	41951.2	41951.2	0.23%	0.34	0.08	0.42	4.54	34	6	4.97	NCHSLT
NAB0912_4-12	12	4	12	45444.8	45444.8	1.45%	0.49	0.31	0.80	62.80	57	10	63.60	NCHSLT
NAB0018_4-12	12	4	18	54897.4	54897.4	0.77%	0.69	0.19	0.88	45.34	60	8	46.22	NCHSLT
NAB0118_4-12	12	4	18	61098.2	61098.2	1.07%	0.94	0.28	1.22	111.34	90	12	112.56	NCHSLT
NAB0218_4-12	12	4	18	54038.1	54038.1	0.30%	0.43	0.12	0.55	8.53	46	6	9.09	NCHSLT
NAB0318_4-12	12	4	18	62765.4	62765.4	1.09%	0.88	0.20	1.09	42.17	60	8	43.27	NCHSLT
NAB0418_4-12	12	4	18	63447.6	63447.6	1.26%	0.73	0.15	0.89	126.45	90	12	127.35	NCHSLT
NAB0518_4-12	12	4	18	67715.7	67715.7	1.58%	0.61	0.23	0.83	58.93	82	11	59.77	NCHSLT
NAB0618_4-12	12	4	18	60226.9	60226.9	1.09%	0.94	0.16	1.10	14.91	60	8	16.01	NCHSLT
NAB0718_4-12	12	4	18	66487.1	66487.1	1.59%	0.92	0.24	1.16	135.07	82	11	136.23	NCHSLT
NAB0818_4-12	12	4	18	63582.3	63582.3	0.16%	0.49	0.16	0.65	57.75	82	11	58.40	NCHSLT
NAB0918_4-12	12	4	18	64343.2	64343.2	1.14%	0.70	0.22	0.92	40.06	68	9	40.98	NCHSLT
NAB006_4-25	25	4	6	37946.8	37946.8	0.47%	0.42	0.11	0.53	4.36	15	3	4.90	NCHSLT
NAB016_4-25	25	4	6	46283.2	46283.2	0.45%	0.45	0.08	0.53	8.96	20	4	9.50	NCHSLT
NAB026_4-25	25	4	6	43933.3	43933.3	0.97%	0.42	0.09	0.51	15.11	25	5	15.63	NCHSLT
NAB036_4-25	25	4	6	43648.6	43648.6	0.83%	0.36	0.07	0.43	6.85	20	4	7.29	NCHSLT
NAB046_4-25	25	4	6	44560.7	44560.7	0.68%	0.33	0.15	0.49	24.01	20	4	24.50	NCHSLT
NAB056_4-25	25	4	6	48697.1	48697.1	1.29%	0.38	0.05	0.43	9.89	20	4	10.32	NCHSLT
NAB066_4-25	25	4	6	38791.6	38791.6	0.90%	0.31	0.06	0.38	2.25	25	5	2.63	NCHSLT
NAB076_4-25	25	4	6	44050.1	44050.1	0.63%	0.34	0.12	0.46	12.03	10	2	12.49	NCHSLT
NAB086_4-25	25	4	6	40539.4	40539.4	0.27%	0.41	0.08	0.49	11.03	30	6	11.52	NCHSLT
NAB096_4-25	25	4	6	46741.6	46741.6	0.90%	0.35	0.10	0.45	22.78	20	4	23.24	NCHSLT
NAB0012_4-25	25	4	12	75680.8	75680.8	0.61%	0.90	0.17	1.07	44.03	35	6	45.11	NCHSLT
NAB0112_4-25	25	4	12	84146.3	84146.3	0.94%	0.70	0.20	0.90	128.46	52	9	129.37	NCHSLT
NAB0212_4-25	25	4	12	80489.0	80489.0	1.63%	0.89	0.21	1.11	147.79	58	10	148.90	NCHSLT
NAB0312_4-25	25	4	12	83950.8	83950.8	0.42%	0.64	0.24	0.89	89.94	64	11	90.83	NCHSLT
NAB0412_4-25	25	4	12	85384.1	85384.1	1.42%	0.64	0.22	0.87	52.92	29	5	53.79	NCHSLT
NAB0512_4-25	25	4	12	87765.6	87765.6	0.56%	0.50	0.18	0.69	145.14	80	14	145.83	NCHSLT
NAB0612_4-25	25	4	12	74503.4	74503.4	0.33%	0.82	0.24	1.06	36.95	69	12	38.01	NCHSLT
NAB0712_4-25	25	4	12	84803.6	84803.6	0.95%	0.74	0.26	1.01	74.10	46	8	75.11	NCHSLT
NAB0812_4-25	25	4	12	79106.3	79106.3	0.45%	0.68	0.14	0.82	56.70	57	10	57.52	NCHSLT
NAB0912_4-25	25	4	12	85089.4	85089.4	0.17%	0.50	0.14	0.64	25.58	51	9	26.22	NCHSLT
NAB0018_4-25	25	4	18	109871.5	109871.5	0.58%	1.45	0.20	1.65	96.73	46	6	98.39	NCHSLT
NAB0118_4-25	25	4	18	122383.4	122383.4	0.99%	1.66	0.39	2.05	246.53	112	15	248.59	NCHSLT
NAB0218_4-25	25	4	18	118734.2	118734.2	1.17%	1.58	0.43	2.01	176.80	46	6	178.81	NCHSLT
NAB0318_4-25	25	4	18	123113.4	123113.4	1.07%	1.34	0.46	1.81	104.59	46	6	106.41	NCHSLT
NAB0418_4-25	25	4	18	125304.3	125304.3	0.84%	1.21	0.31	1.51	112.96	60	8	114.48	NCHSLT
NAB0518_4-25	25	4	18	127314.2	127314.2	0.83%	1.35	0.44	1.80	123.64	68	9	125.45	NCHSLT
NAB0618_4-25	25	4	18	111448.3	111448.3	0.53%	0.89	0.33	1.23	84.34	90	12	85.57	NCHSLT
NAB0718_4-25	25	4	18	123249.3	123249.3	0.53%	1.56	0.47	2.03	159.07	82	11	161.10	NCHSLT
NAB0818_4-25	25	4	18	113447.6	113447.6	0.62%	1.45	0.21	1.66	227.10	112	15	228.77	NCHSLT
NAB0918_4-25	25	4	18	125202.5	125202.5	0.41%	1.02	0.36	1.39	74.14	68	9	75.53	NCHSLT
NAB006_4-50	50	4	6	81913.5	81913.5	0.29%	0.64	0.22	0.87	24.39	20	4	25.26	NCHSLT
NAB016_4-50	50	4	6	85191.0	85191.0	0.28%	0.68	0.26	0.95	11.32	15	3	12.27	NCHSLT
NAB026_4-50	50	4	6	87217.3	87217.3	0.26%	0.62	0.17	0.80	21.39	15	3	22.19	NCHSLT
NAB036_4-50	50	4	6	88141.5	88141.5	0.21%	0.55	0.09	0.64	7.72	15	3	8.36	NCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_4-50	50	4	6	94911.9	94911.9	0.59%	0.89	0.12	1.02	46.20	25	5	47.22	NCHSLT
NAB056_4-50	50	4	6	89651.2	89651.2	0.40%	0.62	0.18	0.81	19.15	20	4	19.96	NCHSLT
NAB066_4-50	50	4	6	80094.9	80094.9	0.23%	0.49	0.20	0.69	12.80	15	3	13.49	NCHSLT
NAB076_4-50	50	4	6	83920.7	83920.7	0.17%	0.68	0.19	0.87	27.52	20	4	28.38	NCHSLT
NAB086_4-50	50	4	6	84363.5	84363.5	0.58%	0.66	0.21	0.87	33.90	20	4	34.78	NCHSLT
NAB096_4-50	50	4	6	94830.4	94830.4	0.26%	0.68	0.09	0.78	8.96	20	4	9.74	NCHSLT
NAB0012_4-50	50	4	12	160316.6	160316.6	0.36%	1.34	0.24	1.59	144.42	52	9	146.01	NCHSLT
NAB0112_4-50	50	4	12	158035.2	158035.2	0.32%	1.06	0.22	1.29	108.48	57	10	109.78	NCHSLT
NAB0212_4-50	50	4	12	159346.3	159346.3	0.33%	1.44	0.41	1.85	196.56	69	12	198.42	NCHSLT
NAB0312_4-50	50	4	12	166694.9	166694.9	0.25%	1.20	0.33	1.54	200.57	80	14	202.11	NCHSLT
NAB0412_4-50	50	4	12	171980.9	171980.9	0.50%	1.20	0.55	1.75	177.44	57	10	179.20	NCHSLT
NAB0512_4-50	50	4	12	165677.9	165677.9	0.43%	1.42	0.33	1.75	217.70	80	14	219.45	NCHSLT
NAB0612_4-50	50	4	12	150692.7	150692.7	0.17%	0.90	0.25	1.16	49.83	29	5	50.99	NCHSLT
NAB0712_4-50	50	4	12	163311.9	163311.9	0.71%	1.61	0.30	1.92	189.41	63	11	191.33	NCHSLT
NAB0812_4-50	50	4	12	157791.2	157791.2	0.32%	1.27	0.43	1.71	127.65	69	12	129.36	NCHSLT
NAB0912_4-50	50	4	12	172984.0	172984.0	0.26%	1.16	0.34	1.51	128.25	57	10	129.76	NCHSLT
NAB0018_4-50	50	4	18	228735.8	228735.8	0.21%	2.04	0.39	2.44	179.96	76	10	182.40	NCHSLT
NAB0118_4-50	50	4	18	233214.8	233214.8	0.30%	2.19	0.33	2.53	231.12	82	11	233.67	NCHSLT
NAB0218_4-50	50	4	18	239061.6	239061.6	0.46%	2.45	0.45	2.90	394.66	98	13	397.56	NCHSLT
NAB0318_4-50	50	4	18	244028.1	244028.1	0.35%	1.95	0.48	2.43	216.61	74	10	219.04	NCHSLT
NAB0418_4-50	50	4	18	254367.6	254367.6	0.44%	2.49	0.72	3.21	201.70	52	7	204.91	NCHSLT
NAB0518_4-50	50	4	18	244963.0	244963.0	0.40%	1.82	0.82	2.64	208.94	60	8	211.59	NCHSLT
NAB0618_4-50	50	4	18	224472.9	224472.9	0.16%	2.21	0.17	2.39	81.28	46	6	83.67	NCHSLT
NAB0718_4-50	50	4	18	241972.8	241972.8	0.45%	2.03	0.58	2.61	166.74	38	5	169.36	NCHSLT
NAB0818_4-50	50	4	18	228567.3	228567.3	0.28%	2.69	0.52	3.22	151.39	60	8	154.61	NCHSLT
NAB0918_4-50	50	4	18	252119.8	252119.8	0.21%	1.66	0.40	2.07	194.09	76	10	196.17	NCHSLT
NAB006_6-6	6	6	6	9877.5	9877.5	1.18%	0.16	0.06	0.23	0.48	15	3	0.71	NCHSLT
NAB016_6-6	6	6	6	13677.7	13677.7	1.60%	0.22	0.12	0.35	1.37	15	3	1.71	NCHSLT
NAB026_6-6	6	6	6	12469.3	12469.3	1.25%	0.18	0.06	0.24	0.32	10	2	0.57	NCHSLT
NAB036_6-6	6	6	6	14093.7	14093.7	0.57%	0.17	0.07	0.24	0.58	20	4	0.82	NCHSLT
NAB046_6-6	6	6	6	14278.7	14278.7	1.23%	0.20	0.06	0.26	0.33	10	2	0.59	NCHSLT
NAB056_6-6	6	6	6	17280.4	17280.4	1.49%	0.19	0.06	0.25	0.88	25	5	1.12	NCHSLT
NAB066_6-6	6	6	6	11865.4	11865.4	0.77%	0.13	0.05	0.18	0.54	15	3	0.73	NCHSLT
NAB076_6-6	6	6	6	15746.2	15746.2	1.14%	0.17	0.08	0.26	0.56	15	3	0.81	NCHSLT
NAB086_6-6	6	6	6	15525.1	15525.1	3.34%	0.21	0.07	0.27	0.42	10	2	0.69	NCHSLT
NAB096_6-6	6	6	6	16630.2	16630.2	0.87%	0.19	0.06	0.26	0.67	15	3	0.93	NCHSLT
NAB0012_6-6	6	6	12	20295.0	20295.0	0.57%	0.46	0.16	0.63	3.26	34	6	3.89	NCHSLT
NAB0112_6-6	6	6	12	25327.6	25327.6	0.22%	0.50	0.26	0.76	7.11	51	9	7.87	NCHSLT
NAB0212_6-6	6	6	12	24361.1	24361.1	0.02%	0.81	0.23	1.05	3.25	51	9	4.30	NCHSLT
NAB0312_6-6	6	6	12	27490.7	27490.7	0.01%	0.52	0.18	0.70	2.95	40	7	3.66	NCHSLT
NAB0412_6-6	6	6	12	27410.7	27410.7	0.37%	0.54	0.25	0.79	3.64	34	6	4.44	NCHSLT
NAB0512_6-6	6	6	12	29806.3	29806.3	0.83%	0.40	0.10	0.50	5.49	51	9	6.00	NCHSLT
NAB0612_6-6	6	6	12	24136.4	24136.4	1.41%	0.44	0.11	0.55	4.73	40	7	5.28	NCHSLT
NAB0712_6-6	6	6	12	29237.0	29237.0	0.51%	0.41	0.16	0.58	5.12	40	7	5.70	NCHSLT
NAB0812_6-6	6	6	12	27723.9	27723.9	2.04%	0.49	0.23	0.72	4.41	34	6	5.14	NCHSLT
NAB0912_6-6	6	6	12	30545.9	30545.9	0.23%	0.55	0.15	0.70	4.84	57	10	5.55	NCHSLT
NAB0018_6-6	6	6	18	29849.8	29849.8	0.91%	1.02	0.23	1.25	9.77	52	7	11.02	NCHSLT
NAB0118_6-6	6	6	18	570537601.9	570537601.9	117.53%	1.25	0.42	1.68	43.40	52	7	45.08	NCHSLT
NAB0218_6-6	6	6	18	33234.3	33234.3	0.59%	0.99	0.37	1.36	5.97	60	8	7.33	NCHSLT
NAB0318_6-6	6	6	18	38911.1	38911.1	0.02%	1.24	0.31	1.55	5.30	38	5	6.85	NCHSLT
NAB0418_6-6	6	6	18	39860.3	39860.3	0.36%	1.43	0.37	1.79	21.95	62	8	23.74	NCHSLT
NAB0518_6-6	6	6	18	45033.0	45033.0	0.65%	0.88	0.24	1.13	15.43	60	8	16.56	NCHSLT
NAB0618_6-6	6	6	18	34404.3	34404.3	0.55%	0.71	0.22	0.93	6.47	52	7	7.40	NCHSLT
NAB0718_6-6	6	6	18	43017.8	43017.8	0.76%	0.84	0.31	1.15	12.13	68	9	13.27	NCHSLT
NAB0818_6-6	6	6	18	43958.0	43958.0	1.57%	1.06	0.31	1.37	12.16	60	8	13.53	NCHSLT
NAB0918_6-6	6	6	18	47244.1	47244.1	0.52%	1.03	0.38	1.42	29.85	52	7	31.27	NCHSLT
NAB006_6-12	12	6	6	21043.7	21043.7	1.83%	0.29	0.07	0.36	1.91	20	4	2.27	NCHSLT
NAB016_6-12	12	6	6	21372.3	21372.3	0.91%	0.26	0.12	0.39	0.96	10	2	1.35	NCHSLT
NAB026_6-12	12	6	6	20167.0	20167.0	1.04%	0.34	0.10	0.44	1.82	15	3	2.26	NCHSLT
NAB036_6-12	12	6	6	21040.1	21040.1	0.97%	0.24	0.14	0.38	0.76	10	2	1.14	NCHSLT
NAB046_6-12	12	6	6	19241.7	19241.7	0.96%	0.29	0.08	0.37	0.77	15	3	1.14	NCHSLT
NAB056_6-12	12	6	6	20631.8	20631.8	0.52%	0.27	0.05	0.33	1.47	20	4	1.80	NCHSLT
NAB066_6-12	12	6	6	18878.7	18878.7	1.88%	0.42	0.13	0.55	1.20	15	3	1.75	NCHSLT
NAB076_6-12	12	6	6	24509.4	24509.4	0.81%	0.29	0.08	0.38	3.84	20	4	4.21	NCHSLT
NAB086_6-12	12	6	6	21642.6	21642.6	2.58%	0.36	0.11	0.47	8.68	25	5	9.16	NCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB096_6-12	12	6	6	24513.7	24513.7	0.41%	0.31	0.13	0.44	4.33	15	3	4.77	NCHSLT
NAB0012_6-12	12	6	12	38641.0	38641.0	1.20%	0.69	0.25	0.94	31.72	63	11	32.66	NCHSLT
NAB0112_6-12	12	6	12	40929.0	40929.0	0.57%	0.61	0.24	0.85	13.40	52	9	14.26	NCHSLT
NAB0212_6-12	12	6	12	39195.9	39195.9	1.84%	0.61	0.33	0.94	75.44	63	11	76.38	NCHSLT
NAB0312_6-12	12	6	12	41271.4	41271.4	0.89%	0.59	0.37	0.96	16.95	63	11	17.91	NCHSLT
NAB0412_6-12	12	6	12	36801.4	36801.4	0.51%	0.59	0.38	0.97	44.20	63	11	45.17	NCHSLT
NAB0512_6-12	12	6	12	42982.5	42982.5	0.94%	0.72	0.20	0.92	75.88	109	19	76.80	NCHSLT
NAB0612_6-12	12	6	12	35222.4	35222.4	0.35%	0.56	0.16	0.72	9.72	57	10	10.45	NCHSLT
NAB0712_6-12	12	6	12	48624.3	48624.3	1.75%	0.72	0.19	0.91	162.82	86	15	163.74	NCHSLT
NAB0812_6-12	12	6	12	40138.6	40138.6	1.03%	0.90	0.30	1.21	66.36	87	15	67.57	NCHSLT
NAB0912_6-12	12	6	12	45015.4	45015.4	1.00%	0.57	0.38	0.96	30.07	75	13	31.04	NCHSLT
NAB0018_6-12	12	6	18	57717.6	57717.6	1.05%	1.21	0.49	1.70	43.64	76	10	45.34	NCHSLT
NAB0118_6-12	12	6	18	63202.9	63202.9	1.18%	1.32	0.56	1.88	35.23	52	7	37.11	NCHSLT
NAB0218_6-12	12	6	18	56855.8	56855.8	1.08%	1.25	0.46	1.71	25.43	46	6	27.14	NCHSLT
NAB0318_6-12	12	6	18	58760.3	58760.3	0.79%	1.44	0.55	2.00	32.48	52	7	34.49	NCHSLT
NAB0418_6-12	12	6	18	53566.8	53566.8	0.79%	1.13	0.61	1.74	33.07	52	7	34.82	NCHSLT
NAB0518_6-12	12	6	18	63961.9	63961.9	1.00%	1.11	0.36	1.47	64.25	112	15	65.72	NCHSLT
NAB0618_6-12	12	6	18	55405.7	55405.7	1.07%	1.00	0.23	1.23	34.08	82	11	35.31	NCHSLT
NAB0718_6-12	12	6	18	70306.6	70306.6	1.50%	1.37	0.57	1.94	201.60	112	15	203.55	NCHSLT
NAB0818_6-12	12	6	18	59606.9	59606.9	1.85%	1.58	0.68	2.26	86.15	60	8	88.42	NCHSLT
NAB0918_6-12	12	6	18	66466.7	66466.7	0.55%	1.32	0.69	2.01	76.99	128	17	79.00	NCHSLT
NAB006_6-25	25	6	6	40374.8	40374.8	0.67%	0.50	0.25	0.75	17.26	25	5	18.01	NCHSLT
NAB016_6-25	25	6	6	40654.3	40654.3	1.02%	0.48	0.28	0.76	40.68	20	4	41.45	NCHSLT
NAB026_6-25	25	6	6	42687.7	42687.7	1.25%	0.54	0.21	0.76	20.43	20	4	21.19	NCHSLT
NAB036_6-25	25	6	6	41686.6	41686.6	1.06%	0.60	0.15	0.75	39.39	20	4	40.15	NCHSLT
NAB046_6-25	25	6	6	44028.5	44028.5	1.20%	0.63	0.12	0.75	53.10	30	6	53.86	NCHSLT
NAB056_6-25	25	6	6	41423.5	41423.5	1.34%	0.45	0.13	0.58	40.33	25	5	40.92	NCHSLT
NAB066_6-25	25	6	6	39884.4	39884.4	0.80%	0.74	0.31	1.05	43.27	25	5	44.33	NCHSLT
NAB076_6-25	25	6	6	43543.0	43543.0	0.61%	0.52	0.09	0.61	12.04	25	5	12.65	NCHSLT
NAB086_6-25	25	6	6	41797.5	41797.5	0.99%	0.55	0.14	0.69	12.85	20	4	13.54	NCHSLT
NAB096_6-25	25	6	6	43336.4	43336.4	1.07%	0.48	0.18	0.66	10.25	20	4	10.91	NCHSLT
NAB0012_6-25	25	6	12	78054.6	78054.6	1.12%	1.07	0.58	1.65	89.43	63	11	91.09	NCHSLT
NAB0112_6-25	25	6	12	81005.2	81005.2	1.53%	1.08	0.48	1.57	186.03	63	11	187.60	NCHSLT
NAB0212_6-25	25	6	12	81349.9	81349.9	1.22%	1.41	0.42	1.83	130.58	57	10	132.41	NCHSLT
NAB0312_6-25	25	6	12	79035.9	79035.9	1.34%	1.12	0.48	1.60	109.77	46	8	111.38	NCHSLT
NAB0412_6-25	25	6	12	82205.5	82205.5	1.12%	1.16	0.99	2.16	233.12	75	13	235.28	NCHSLT
NAB0512_6-25	25	6	12	78103.9	78103.9	1.26%	0.81	0.43	1.25	127.19	63	11	128.45	NCHSLT
NAB0612_6-25	25	6	12	75388.6	75388.6	0.83%	1.14	0.51	1.65	168.26	92	16	169.91	NCHSLT
NAB0712_6-25	25	6	12	78804.4	78804.4	0.59%	1.12	0.40	1.52	49.31	57	10	50.83	NCHSLT
NAB0812_6-25	25	6	12	76916.0	76916.0	1.13%	1.04	0.38	1.42	127.53	63	11	128.95	NCHSLT
NAB0912_6-25	25	6	12	84196.1	84196.1	1.55%	1.16	0.38	1.54	250.26	109	19	251.81	NCHSLT
NAB0018_6-25	25	6	18	113424.2	113424.2	1.15%	1.84	1.99	3.84	351.37	104	14	355.22	NCHSLT
NAB0118_6-25	25	6	18	119220.7	119220.7	1.18%	2.28	1.61	3.90	234.85	84	11	238.75	NCHSLT
NAB0218_6-25	25	6	18	121983.1	121983.1	1.10%	2.28	0.73	3.01	367.28	120	16	370.30	NCHSLT
NAB0318_6-25	25	6	18	118492.1	118492.1	1.30%	2.25	0.80	3.06	292.91	82	11	295.97	NCHSLT
NAB0418_6-25	25	6	18	122314.6	122314.6	1.15%	1.99	0.63	2.63	253.35	76	10	255.98	NCHSLT
NAB0518_6-25	25	6	18	119405.0	119405.0	1.20%	1.89	0.90	2.79	170.63	76	10	173.42	NCHSLT
NAB0618_6-25	25	6	18	110465.7	110465.7	0.90%	1.84	0.77	2.61	129.24	54	7	131.86	NCHSLT
NAB0718_6-25	25	6	18	116493.9	116493.9	0.97%	1.65	0.63	2.28	109.01	74	10	111.30	NCHSLT
NAB0818_6-25	25	6	18	110766.1	110766.1	1.21%	1.78	0.77	2.56	114.07	38	5	116.64	NCHSLT
NAB0918_6-25	25	6	18	124344.5	124344.5	1.23%	2.00	0.58	2.59	251.14	92	12	253.73	NCHSLT
NAB006_6-50	50	6	6	75526.6	75526.6	0.47%	0.79	0.20	0.99	27.26	20	4	28.25	NCHSLT
NAB016_6-50	50	6	6	78533.4	78533.4	0.82%	1.11	0.42	1.54	125.32	30	6	126.86	NCHSLT
NAB026_6-50	50	6	6	81154.5	81154.5	0.82%	0.84	0.63	1.47	64.89	25	5	66.36	NCHSLT
NAB036_6-50	50	6	6	79050.8	79050.8	0.37%	0.97	0.19	1.16	42.66	25	5	43.82	NCHSLT
NAB046_6-50	50	6	6	81912.9	81912.9	0.84%	0.90	0.42	1.32	106.18	25	5	107.51	NCHSLT
NAB056_6-50	50	6	6	82462.8	82462.8	0.59%	0.88	0.20	1.09	83.56	25	5	84.66	NCHSLT
NAB066_6-50	50	6	6	79072.8	79072.8	0.69%	1.10	0.56	1.66	72.22	20	4	73.89	NCHSLT
NAB076_6-50	50	6	6	82550.0	82550.0	0.62%	0.88	0.36	1.24	40.07	20	4	41.31	NCHSLT
NAB086_6-50	50	6	6	77599.3	77599.3	0.34%	0.80	0.27	1.07	39.54	20	4	40.62	NCHSLT
NAB096_6-50	50	6	6	78938.0	78938.0	0.82%	0.79	0.30	1.10	63.55	20	4	64.66	NCHSLT
NAB0012_6-50	50	6	12	146634.9	146634.9	0.48%	1.83	0.89	2.72	176.50	64	11	179.23	NCHSLT
NAB0112_6-50	50	6	12	149794.9	149794.9	0.64%	1.67	0.69	2.37	205.87	81	14	208.24	NCHSLT
NAB0212_6-50	50	6	12	154046.9	154046.9	0.53%	1.85	0.93	2.80	259.52	58	10	262.32	NCHSLT
NAB0312_6-50	50	6	12	152629.6	152629.6	0.51%	1.81	0.61	2.42	157.02	58	10	159.44	NCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_6-50	50	6	12	159749.4	159749.4	0.64%	1.68	1.26	2.95	292.77	87	15	295.73	NCHSLT
NAB0512_6-50	50	6	12	157790.1	157790.1	0.96%	1.82	1.29	3.12	244.72	69	12	247.85	NCHSLT
NAB0612_6-50	50	6	12	148442.0	148442.0	0.65%	2.02	1.57	3.60	402.86	81	14	406.46	NCHSLT
NAB0712_6-50	50	6	12	157304.2	157304.2	0.33%	1.58	0.33	1.92	144.73	63	11	146.65	NCHSLT
NAB0812_6-50	50	6	12	144211.2	144211.2	0.44%	1.69	1.26	2.96	149.24	46	8	152.20	NCHSLT
NAB0912_6-50	50	6	12	151768.4	151768.4	0.46%	1.59	0.73	2.33	325.63	103	18	327.96	NCHSLT
NAB0018_6-50	50	6	18	216856.6	216856.6	0.50%	3.61	2.08	5.71	306.57	84	11	312.28	NCHSLT
NAB0118_6-50	50	6	18	219308.1	219308.1	0.47%	3.29	2.41	5.71	260.09	106	14	265.81	NCHSLT
NAB0218_6-50	50	6	18	225115.9	225115.9	0.69%	3.31	2.41	5.73	222.57	38	5	228.31	NCHSLT
NAB0318_6-50	50	6	18	226691.2	226691.2	0.51%	3.13	0.61	3.75	169.83	30	4	173.59	NCHSLT
NAB0418_6-50	50	6	18	237227.1	237227.1	0.61%	4.09	1.66	5.76	259.71	46	6	265.47	NCHSLT
NAB0518_6-50	50	6	18	226886.8	226886.8	0.73%	4.08	0.75	4.84	368.92	100	13	373.76	NCHSLT
NAB0618_6-50	50	6	18	220331.9	220417.6	0.65%	4.76	1.19	5.96	600.03	83	11	605.99	NCHSLT
NAB0718_6-50	50	6	18	230866.2	230866.2	0.43%	3.09	0.49	3.59	380.36	114	15	383.96	NCHSLT
NAB0818_6-50	50	6	18	215681.6	215681.6	0.46%	3.27	1.99	5.27	138.22	38	5	143.50	NCHSLT
NAB0918_6-50	50	6	18	224901.7	224901.7	0.50%	3.27	1.67	4.94	452.92	98	13	457.87	NCHSLT
NBA006_2-6	6	2	6	8049.4	8049.4	0.12%	0.10	0.02	0.12	0.34	15	3	0.46	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%	0.05	0.01	0.07	0.10	15	3	0.16	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%	0.07	0.02	0.09	0.22	15	3	0.30	NCLSHT
NBA036_2-6	6	2	6	7687.7	7687.7	0.00%	0.07	0.02	0.08	0.45	25	5	0.53	NCLSHT
NBA046_2-6	6	2	6	7759.6	7759.6	0.30%	0.10	0.02	0.12	0.39	20	4	0.51	NCLSHT
NBA056_2-6	6	2	6	9364.1	9364.1	0.24%	0.08	0.02	0.09	0.12	10	2	0.21	NCLSHT
NBA066_2-6	6	2	6	8012.8	8012.8	0.19%	0.07	0.03	0.10	0.25	15	3	0.35	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%	0.07	0.01	0.09	0.13	10	2	0.22	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%	0.08	0.01	0.09	0.15	10	2	0.24	NCLSHT
NBA096_2-6	6	2	6	7096.5	7096.5	0.11%	0.05	0.01	0.06	0.08	10	2	0.14	NCLSHT
NBA0012_2-6	6	2	12	15351.3	15351.3	0.00%	0.24	0.03	0.27	1.83	40	7	2.10	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%	0.16	0.02	0.19	0.86	40	7	1.05	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%	0.12	0.04	0.16	0.63	34	6	0.79	NCLSHT
NBA0312_2-6	6	2	12	14530.8	14530.8	0.11%	0.16	0.03	0.19	1.12	34	6	1.32	NCLSHT
NBA0412_2-6	6	2	12	13482.0	13482.0	0.00%	0.17	0.03	0.20	2.50	46	8	2.70	NCLSHT
NBA0512_2-6	6	2	12	17237.2	17237.2	0.00%	0.10	0.03	0.13	0.63	28	5	0.77	NCLSHT
NBA0612_2-6	6	2	12	14774.7	14774.7	0.03%	0.09	0.02	0.11	0.31	17	3	0.43	NCLSHT
NBA0712_2-6	6	2	12	16542.1	16542.1	0.00%	0.16	0.05	0.21	2.18	45	8	2.39	NCLSHT
NBA0812_2-6	6	2	12	14100.3	14100.3	0.00%	0.14	0.02	0.16	0.63	23	4	0.79	NCLSHT
NBA0912_2-6	6	2	12	16056.8	16056.8	0.00%	0.11	0.04	0.15	0.46	23	4	0.61	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%	0.34	0.04	0.38	4.06	44	6	4.44	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%	0.19	0.04	0.23	0.89	30	4	1.12	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%	0.27	0.03	0.30	1.86	38	5	2.17	NCLSHT
NBA0318_2-6	6	2	18	22926.5	22926.5	0.00%	0.28	0.04	0.33	1.79	38	5	2.12	NCLSHT
NBA0418_2-6	6	2	18	19851.6	19851.6	0.00%	0.36	0.03	0.39	3.06	46	6	3.44	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%	0.16	0.02	0.19	0.70	22	3	0.89	NCLSHT
NBA0618_2-6	6	2	18	22645.6	22645.6	0.11%	0.24	0.04	0.28	2.13	44	6	2.41	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%	0.41	0.04	0.45	3.53	44	6	3.98	NCLSHT
NBA0818_2-6	6	2	18	20728.0	20728.0	0.00%	0.23	0.03	0.27	1.82	44	6	2.09	NCLSHT
NBA0918_2-6	6	2	18	22402.4	22402.4	0.00%	0.13	0.03	0.16	1.47	44	6	1.63	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%	0.08	0.03	0.11	0.16	15	3	0.27	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%	0.09	0.02	0.11	0.17	10	2	0.28	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%	0.12	0.02	0.15	0.40	15	3	0.55	NCLSHT
NBA036_2-12	12	2	6	16299.4	16299.4	0.00%	0.08	0.02	0.10	0.14	10	2	0.24	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%	0.11	0.01	0.12	0.15	10	2	0.27	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%	0.06	0.02	0.09	0.14	10	2	0.22	NCLSHT
NBA066_2-12	12	2	6	13727.3	13727.3	0.00%	0.10	0.02	0.12	0.28	15	3	0.40	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%	0.07	0.01	0.08	0.05	5	1	0.13	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%	0.10	0.02	0.12	0.27	15	3	0.39	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%	0.14	0.02	0.16	0.56	20	4	0.72	NCLSHT
NBA0012_2-12	12	2	12	25999.4	25999.4	0.00%	0.13	0.03	0.17	0.99	39	7	1.16	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%	0.13	0.03	0.16	0.91	34	6	1.07	NCLSHT
NBA0212_2-12	12	2	12	26958.7	26958.7	0.10%	0.28	0.05	0.34	2.35	29	5	2.69	NCLSHT
NBA0312_2-12	12	2	12	31645.2	31645.2	0.00%	0.19	0.03	0.22	1.40	34	6	1.62	NCLSHT
NBA0412_2-12	12	2	12	28149.1	28149.1	0.00%	0.14	0.03	0.17	1.93	45	8	2.10	NCLSHT
NBA0512_2-12	12	2	12	31963.5	31963.5	0.00%	0.14	0.02	0.17	1.20	34	6	1.37	NCLSHT
NBA0612_2-12	12	2	12	27141.8	27141.8	0.03%	0.15	0.05	0.19	1.00	34	6	1.19	NCLSHT
NBA0712_2-12	12	2	12	30159.8	30159.8	0.00%	0.16	0.03	0.19	0.92	40	7	1.11	NCLSHT
NBA0812_2-12	12	2	12	26608.5	26608.5	0.05%	0.23	0.03	0.25	1.37	29	5	1.62	NCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_2-12	12	2	12	30769.9	30769.9	0.04%	0.26	0.05	0.31	10.66	45	8	10.97	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%	0.21	0.04	0.25	0.93	22	3	1.19	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%	0.60	0.04	0.64	2.82	44	6	3.46	NCLSHT
NBA0218_2-12	12	2	18	41237.0	41237.0	0.05%	0.55	0.05	0.60	9.49	52	7	10.09	NCLSHT
NBA0318_2-12	12	2	18	46065.0	46065.0	0.00%	0.30	0.05	0.34	2.09	22	3	2.44	NCLSHT
NBA0418_2-12	12	2	18	44030.3	44030.3	0.00%	0.26	0.04	0.29	4.45	52	7	4.75	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%	0.26	0.04	0.30	1.62	22	3	1.92	NCLSHT
NBA0618_2-12	12	2	18	40454.2	40454.2	0.00%	0.30	0.05	0.34	2.24	38	5	2.59	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%	0.19	0.04	0.23	2.95	52	7	3.17	NCLSHT
NBA0818_2-12	12	2	18	41119.5	41119.5	0.00%	0.44	0.05	0.50	2.75	22	3	3.25	NCLSHT
NBA0918_2-12	12	2	18	46895.1	46895.1	0.04%	0.50	0.04	0.54	8.22	30	4	8.76	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%	0.12	0.04	0.15	0.39	15	3	0.55	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%	0.16	0.02	0.18	0.32	10	2	0.50	NCLSHT
NBA026_2-25	25	2	6	28314.1	28314.1	0.08%	0.19	0.02	0.22	0.43	10	2	0.65	NCLSHT
NBA036_2-25	25	2	6	30091.5	30091.5	0.05%	0.15	0.02	0.18	0.63	15	3	0.81	NCLSHT
NBA046_2-25	25	2	6	31275.1	31275.1	0.02%	0.20	0.03	0.24	0.94	20	4	1.18	NCLSHT
NBA056_2-25	25	2	6	31286.9	31286.9	0.09%	0.17	0.04	0.21	1.19	20	4	1.40	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%	0.11	0.03	0.14	0.32	20	4	0.46	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%	0.20	0.04	0.24	0.58	15	3	0.82	NCLSHT
NBA086_2-25	25	2	6	31928.1	31928.1	0.16%	0.23	0.03	0.26	0.72	10	2	0.99	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%	0.21	0.03	0.24	1.00	20	4	1.24	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%	0.16	0.03	0.19	0.74	17	3	0.94	NCLSHT
NBA0112_2-25	25	2	12	60750.5	60750.5	0.00%	0.26	0.05	0.31	2.12	28	5	2.43	NCLSHT
NBA0212_2-25	25	2	12	55998.8	55998.8	0.04%	0.42	0.05	0.47	5.56	46	8	6.03	NCLSHT
NBA0312_2-25	25	2	12	59052.1	59052.1	0.04%	0.32	0.04	0.37	4.31	46	8	4.68	NCLSHT
NBA0412_2-25	25	2	12	59435.3	59435.3	0.00%	0.53	0.06	0.59	3.27	40	7	3.87	NCLSHT
NBA0512_2-25	25	2	12	64651.4	64651.4	0.00%	0.38	0.04	0.42	1.47	23	4	1.89	NCLSHT
NBA0612_2-25	25	2	12	57093.1	57093.1	0.00%	0.15	0.04	0.19	1.08	28	5	1.27	NCLSHT
NBA0712_2-25	25	2	12	62605.3	62605.3	0.02%	0.34	0.06	0.40	4.08	45	8	4.49	NCLSHT
NBA0812_2-25	25	2	12	62462.2	62462.2	0.00%	0.42	0.04	0.47	11.24	57	10	11.71	NCLSHT
NBA0912_2-25	25	2	12	63791.6	63791.6	0.02%	0.20	0.04	0.25	2.74	45	8	2.99	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%	0.20	0.06	0.26	1.89	30	4	2.15	NCLSHT
NBA0118_2-25	25	2	18	88422.0	88422.0	0.00%	0.54	0.08	0.62	4.48	44	6	5.10	NCLSHT
NBA0218_2-25	25	2	18	82860.4	82860.4	0.00%	0.49	0.04	0.53	14.46	74	10	14.99	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%	0.43	0.10	0.54	3.14	30	4	3.68	NCLSHT
NBA0418_2-25	25	2	18	90293.2	90293.2	0.03%	0.86	0.06	0.93	14.19	66	9	15.12	NCLSHT
NBA0518_2-25	25	2	18	94617.5	94617.5	0.01%	0.56	0.07	0.63	11.20	44	6	11.84	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%	0.16	0.07	0.24	2.17	44	6	2.40	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%	0.59	0.07	0.66	3.46	22	3	4.12	NCLSHT
NBA0818_2-25	25	2	18	91152.8	91152.8	0.06%	0.64	0.07	0.71	11.02	30	4	11.73	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%	0.42	0.07	0.49	4.39	36	5	4.89	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%	0.22	0.04	0.25	0.43	10	2	0.69	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%	0.30	0.04	0.34	0.47	10	2	0.81	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%	0.43	0.04	0.46	0.61	10	2	1.07	NCLSHT
NBA036_2-50	50	2	6	59065.4	59065.4	0.01%	0.25	0.04	0.29	0.58	10	2	0.87	NCLSHT
NBA046_2-50	50	2	6	60538.6	60538.6	0.01%	0.30	0.04	0.33	0.97	15	3	1.31	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%	0.24	0.07	0.31	0.42	10	2	0.74	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%	0.20	0.04	0.23	0.44	10	2	0.67	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%	0.25	0.04	0.28	0.80	15	3	1.09	NCLSHT
NBA086_2-50	50	2	6	59777.0	59777.0	0.00%	0.33	0.04	0.37	0.65	10	2	1.02	NCLSHT
NBA096_2-50	50	2	6	60442.2	60442.2	0.01%	0.28	0.04	0.32	0.88	15	3	1.21	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%	0.25	0.05	0.31	1.12	17	3	1.42	NCLSHT
NBA0112_2-50	50	2	12	119722.8	119722.8	0.00%	0.31	0.07	0.38	2.29	28	5	2.67	NCLSHT
NBA0212_2-50	50	2	12	113771.1	113771.1	0.00%	0.47	0.07	0.54	5.15	28	5	5.69	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%	0.28	0.09	0.37	1.50	17	3	1.88	NCLSHT
NBA0412_2-50	50	2	12	121762.7	121762.7	0.00%	0.45	0.07	0.52	4.38	34	6	4.90	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%	0.32	0.09	0.41	2.26	17	3	2.67	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%	0.45	0.09	0.55	1.48	17	3	2.03	NCLSHT
NBA0712_2-50	50	2	12	114482.7	114482.7	0.00%	0.31	0.07	0.38	4.81	28	5	5.20	NCLSHT
NBA0812_2-50	50	2	12	115038.7	115038.7	0.01%	0.65	0.07	0.72	5.13	17	3	5.85	NCLSHT
NBA0912_2-50	50	2	12	122205.8	122205.8	0.00%	0.40	0.09	0.50	3.15	34	6	3.65	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%	0.38	0.11	0.49	3.60	30	4	4.09	NCLSHT
NBA0118_2-50	50	2	18	178653.5	178653.5	0.00%	0.55	0.18	0.74	9.33	66	9	10.08	NCLSHT
NBA0218_2-50	50	2	18	169385.1	169385.1	0.00%	0.66	0.07	0.74	6.69	30	4	7.44	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%	0.50	0.10	0.60	5.27	30	4	5.88	NCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0418_2-50	50	2	18	181166.2	181166.2	0.01%	1.12	0.12	1.25	28.54	38	5	29.79	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%	0.58	0.14	0.71	2.79	22	3	3.51	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%	0.52	0.11	0.64	4.50	30	4	5.14	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%	0.47	0.19	0.66	4.25	22	3	4.92	NCLSHT
NBA0818_2-50	50	2	18	173119.8	173119.8	0.01%	1.24	0.13	1.38	18.84	60	8	20.22	NCLSHT
NBA0918_2-50	50	2	18	182592.7	182592.7	0.00%	0.72	0.10	0.83	5.07	22	3	5.90	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%	0.07	0.04	0.11	0.18	15	3	0.29	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%	0.12	0.05	0.17	0.34	15	3	0.52	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%	0.10	0.03	0.13	0.19	15	3	0.32	NCLSHT
NBA036_4-6	6	4	6	6632.3	6632.3	0.20%	0.12	0.05	0.17	0.65	20	4	0.82	NCLSHT
NBA046_4-6	6	4	6	5447.3	5447.3	0.31%	0.07	0.02	0.10	0.15	15	3	0.25	NCLSHT
NBA056_4-6	6	4	6	7757.3	7757.3	0.72%	0.11	0.03	0.14	0.45	15	3	0.59	NCLSHT
NBA066_4-6	6	4	6	6283.4	6283.4	0.25%	0.12	0.03	0.16	0.26	10	2	0.42	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%	0.09	0.02	0.12	0.19	15	3	0.31	NCLSHT
NBA086_4-6	6	4	6	5792.0	5792.0	0.00%	0.12	0.03	0.16	0.36	20	4	0.51	NCLSHT
NBA096_4-6	6	4	6	8490.5	8490.5	0.10%	0.11	0.03	0.14	0.55	20	4	0.69	NCLSHT
NBA0012_4-6	6	4	12	11580.9	11580.9	0.00%	0.16	0.03	0.19	0.95	40	7	1.14	NCLSHT
NBA0112_4-6	6	4	12	15063.1	15063.1	0.04%	0.29	0.06	0.36	7.08	51	9	7.44	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%	0.29	0.05	0.34	1.19	29	5	1.53	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%	0.24	0.07	0.31	0.97	23	4	1.29	NCLSHT
NBA0412_4-6	6	4	12	12588.2	12588.2	0.13%	0.29	0.04	0.33	2.48	35	6	2.81	NCLSHT
NBA0512_4-6	6	4	12	15592.7	15592.7	0.00%	0.29	0.10	0.39	7.82	45	8	8.21	NCLSHT
NBA0612_4-6	6	4	12	12642.8	12642.8	0.15%	0.32	0.09	0.41	1.91	40	7	2.33	NCLSHT
NBA0712_4-6	6	4	12	14533.0	14533.0	0.00%	0.25	0.04	0.29	2.37	51	9	2.66	NCLSHT
NBA0812_4-6	6	4	12	12165.7	12165.7	0.00%	0.23	0.04	0.27	1.64	23	4	1.92	NCLSHT
NBA0912_4-6	6	4	12	14700.4	14700.4	0.00%	0.27	0.05	0.33	1.02	29	5	1.35	NCLSHT
NBA0018_4-6	6	4	18	18439.1	18439.1	0.05%	0.36	0.09	0.46	2.51	30	4	2.97	NCLSHT
NBA0118_4-6	6	4	18	21322.6	21322.6	0.00%	0.83	0.12	0.95	3.25	30	4	4.20	NCLSHT
NBA0218_4-6	6	4	18	21169.6	21169.6	0.00%	0.48	0.08	0.56	3.11	44	6	3.67	NCLSHT
NBA0318_4-6	6	4	18	21681.1	21681.1	0.03%	0.54	0.09	0.63	3.88	44	6	4.51	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%	0.39	0.06	0.45	2.32	30	4	2.78	NCLSHT
NBA0518_4-6	6	4	18	23039.2	23039.2	0.10%	0.56	0.08	0.65	14.73	74	10	15.38	NCLSHT
NBA0618_4-6	6	4	18	19481.0	19481.0	0.02%	0.64	0.08	0.72	10.85	68	9	11.57	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%	0.52	0.05	0.57	2.24	30	4	2.81	NCLSHT
NBA0818_4-6	6	4	18	18069.1	18069.1	0.02%	0.46	0.06	0.52	6.57	60	8	7.10	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%	0.63	0.05	0.68	2.89	38	5	3.58	NCLSHT
NBA006_4-12	12	4	6	13153.7	13153.7	0.00%	0.18	0.04	0.22	0.89	15	3	1.11	NCLSHT
NBA016_4-12	12	4	6	15339.4	15339.4	0.19%	0.19	0.04	0.24	1.73	20	4	1.97	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%	0.12	0.02	0.14	0.51	15	3	0.65	NCLSHT
NBA036_4-12	12	4	6	12217.2	12217.2	0.00%	0.16	0.03	0.20	0.67	15	3	0.87	NCLSHT
NBA046_4-12	12	4	6	14277.8	14277.8	0.00%	0.11	0.03	0.14	0.49	15	3	0.64	NCLSHT
NBA056_4-12	12	4	6	14099.3	14099.3	0.05%	0.12	0.04	0.16	0.67	15	3	0.83	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%	0.11	0.05	0.16	0.26	15	3	0.42	NCLSHT
NBA076_4-12	12	4	6	12420.9	12420.9	0.09%	0.12	0.03	0.15	0.42	10	2	0.58	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%	0.11	0.03	0.14	0.58	15	3	0.72	NCLSHT
NBA096_4-12	12	4	6	13227.9	13227.9	0.35%	0.14	0.04	0.18	1.72	25	5	1.90	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%	0.32	0.07	0.39	3.73	40	7	4.12	NCLSHT
NBA0112_4-12	12	4	12	28359.0	28359.0	0.00%	0.53	0.10	0.63	10.88	52	9	11.51	NCLSHT
NBA0212_4-12	12	4	12	26396.4	26396.4	0.01%	0.28	0.04	0.32	2.48	28	5	2.80	NCLSHT
NBA0312_4-12	12	4	12	25275.1	25275.1	0.00%	0.23	0.07	0.30	4.02	46	8	4.33	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%	0.42	0.04	0.46	2.83	34	6	3.29	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%	0.22	0.05	0.27	1.98	29	5	2.25	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%	0.18	0.07	0.24	0.92	23	4	1.16	NCLSHT
NBA0712_4-12	12	4	12	26154.1	26154.1	0.00%	0.30	0.10	0.40	2.39	23	4	2.79	NCLSHT
NBA0812_4-12	12	4	12	27994.2	27994.2	0.00%	0.29	0.05	0.34	3.05	40	7	3.39	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%	0.39	0.07	0.46	8.76	29	5	9.23	NCLSHT
NBA0018_4-12	12	4	18	38035.7	38035.7	0.02%	0.67	0.07	0.74	14.56	46	6	15.30	NCLSHT
NBA0118_4-12	12	4	18	41660.4	41660.4	0.24%	1.05	0.12	1.17	35.64	38	5	36.81	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%	0.49	0.07	0.56	4.70	30	4	5.26	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%	0.68	0.10	0.78	9.56	60	8	10.33	NCLSHT
NBA0418_4-12	12	4	18	40569.8	40569.8	0.00%	0.50	0.09	0.60	29.61	68	9	30.21	NCLSHT
NBA0518_4-12	12	4	18	41010.6	41010.6	0.02%	0.68	0.08	0.77	8.67	30	4	9.44	NCLSHT
NBA0618_4-12	12	4	18	37077.0	37077.0	0.03%	0.44	0.05	0.49	3.38	30	4	3.87	NCLSHT
NBA0718_4-12	12	4	18	41043.3	41043.3	0.02%	1.02	0.11	1.13	16.14	52	7	17.27	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%	0.43	0.06	0.49	4.18	30	4	4.67	NCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_4-12	12	4	18	41429.2	41429.2	0.14%	0.82	0.18	1.00	33.62	44	6	34.62	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%	0.23	0.04	0.27	0.97	15	3	1.24	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%	0.25	0.04	0.29	1.36	15	3	1.66	NCLSHT
NBA026_4-25	25	4	6	27549.9	27549.9	0.01%	0.20	0.04	0.24	0.82	15	3	1.06	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%	0.27	0.03	0.31	1.50	20	4	1.80	NCLSHT
NBA046_4-25	25	4	6	26626.0	26626.0	0.04%	0.18	0.03	0.21	0.65	15	3	0.87	NCLSHT
NBA056_4-25	25	4	6	30122.2	30122.2	0.04%	0.21	0.03	0.24	0.88	10	2	1.13	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%	0.18	0.03	0.22	0.31	10	2	0.53	NCLSHT
NBA076_4-25	25	4	6	26942.1	26942.1	0.02%	0.22	0.04	0.27	1.12	10	2	1.39	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%	0.18	0.03	0.22	0.65	15	3	0.87	NCLSHT
NBA096_4-25	25	4	6	27864.7	27864.7	0.05%	0.28	0.05	0.33	1.45	20	4	1.78	NCLSHT
NBA0012_4-25	25	4	12	53578.7	53578.7	0.01%	0.58	0.08	0.66	18.25	62	11	18.91	NCLSHT
NBA0112_4-25	25	4	12	56262.4	56262.4	0.01%	0.41	0.09	0.51	4.75	34	6	5.26	NCLSHT
NBA0212_4-25	25	4	12	53158.9	53158.9	0.01%	0.57	0.12	0.70	10.64	46	8	11.34	NCLSHT
NBA0312_4-25	25	4	12	53938.9	53938.9	0.00%	0.39	0.06	0.46	7.74	40	7	8.21	NCLSHT
NBA0412_4-25	25	4	12	54866.3	54866.3	0.00%	0.31	0.08	0.39	3.62	28	5	4.01	NCLSHT
NBA0512_4-25	25	4	12	57028.2	57028.2	0.00%	0.27	0.08	0.35	4.87	34	6	5.22	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%	0.28	0.05	0.33	1.70	23	4	2.04	NCLSHT
NBA0712_4-25	25	4	12	55384.1	55384.1	0.01%	0.59	0.06	0.66	11.10	40	7	11.75	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%	0.37	0.07	0.44	3.31	28	5	3.74	NCLSHT
NBA0912_4-25	25	4	12	54755.7	54755.7	0.03%	0.68	0.06	0.75	5.42	29	5	6.17	NCLSHT
NBA0018_4-25	25	4	18	77879.2	77879.2	0.03%	0.98	0.17	1.16	19.34	30	4	20.50	NCLSHT
NBA0118_4-25	25	4	18	83801.3	83801.3	0.00%	0.62	0.07	0.69	14.65	66	9	15.35	NCLSHT
NBA0218_4-25	25	4	18	80776.0	80776.0	0.00%	0.62	0.11	0.74	21.47	52	7	22.21	NCLSHT
NBA0318_4-25	25	4	18	80246.3	80246.3	0.00%	0.78	0.09	0.87	6.65	22	3	7.54	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%	0.61	0.09	0.70	3.67	30	4	4.37	NCLSHT
NBA0518_4-25	25	4	18	84238.2	84238.2	0.00%	0.64	0.11	0.76	10.46	44	6	11.21	NCLSHT
NBA0618_4-25	25	4	18	77305.9	77305.9	0.00%	0.44	0.09	0.54	4.06	30	4	4.60	NCLSHT
NBA0718_4-25	25	4	18	82392.8	82392.8	0.03%	1.00	0.10	1.10	27.26	60	8	28.36	NCLSHT
NBA0818_4-25	25	4	18	78378.5	78378.5	0.00%	0.95	0.09	1.05	8.94	52	7	9.99	NCLSHT
NBA0918_4-25	25	4	18	82198.8	82198.8	0.00%	0.85	0.11	0.97	7.93	22	3	8.90	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%	0.31	0.06	0.38	0.96	15	3	1.34	NCLSHT
NBA016_4-50	50	4	6	55352.3	55352.3	0.00%	0.34	0.07	0.42	0.74	10	2	1.16	NCLSHT
NBA026_4-50	50	4	6	55984.6	55984.6	0.01%	0.30	0.05	0.36	1.22	20	4	1.58	NCLSHT
NBA036_4-50	50	4	6	55089.4	55089.4	0.00%	0.36	0.07	0.42	1.22	10	2	1.64	NCLSHT
NBA046_4-50	50	4	6	56683.9	56683.9	0.03%	0.39	0.09	0.49	4.01	15	3	4.50	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%	0.18	0.06	0.24	0.80	15	3	1.04	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%	0.29	0.05	0.34	0.27	5	1	0.60	NCLSHT
NBA076_4-50	50	4	6	51565.6	51565.6	0.00%	0.30	0.05	0.36	1.12	15	3	1.49	NCLSHT
NBA086_4-50	50	4	6	52838.0	52838.0	0.01%	0.25	0.08	0.34	1.19	10	2	1.53	NCLSHT
NBA096_4-50	50	4	6	60101.0	60101.0	0.00%	0.36	0.06	0.42	0.88	10	2	1.31	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%	0.79	0.18	0.98	29.89	40	7	30.87	NCLSHT
NBA0112_4-50	50	4	12	108409.8	108409.8	0.00%	0.52	0.14	0.67	5.85	34	6	6.52	NCLSHT
NBA0212_4-50	50	4	12	107881.1	107881.1	0.00%	0.72	0.11	0.84	7.73	40	7	8.58	NCLSHT
NBA0312_4-50	50	4	12	109984.9	109984.9	0.00%	1.02	0.24	1.26	9.70	29	5	10.96	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%	0.67	0.11	0.79	11.66	34	6	12.45	NCLSHT
NBA0512_4-50	50	4	12	111970.9	111970.9	0.00%	0.48	0.08	0.57	9.08	51	9	9.65	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%	0.31	0.11	0.42	2.21	17	3	2.63	NCLSHT
NBA0712_4-50	50	4	12	106401.2	106401.2	0.00%	0.99	0.11	1.11	18.03	40	7	19.14	NCLSHT
NBA0812_4-50	50	4	12	106458.2	106458.2	0.00%	0.38	0.11	0.49	4.65	34	6	5.15	NCLSHT
NBA0912_4-50	50	4	12	114303.3	114303.3	0.00%	0.49	0.11	0.60	6.81	40	7	7.42	NCLSHT
NBA0018_4-50	50	4	18	159938.8	159938.8	0.00%	1.16	0.16	1.33	14.78	52	7	16.12	NCLSHT
NBA0118_4-50	50	4	18	161692.8	161692.8	0.00%	0.95	0.23	1.18	10.67	22	3	11.87	NCLSHT
NBA0218_4-50	50	4	18	162669.4	162669.4	0.01%	1.13	0.27	1.40	57.67	52	7	59.08	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%	1.57	0.35	1.92	17.64	44	6	19.56	NCLSHT
NBA0418_4-50	50	4	18	166162.4	166162.4	0.02%	1.36	0.16	1.53	20.77	30	4	22.30	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%	0.68	0.19	0.88	8.58	22	3	9.47	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%	1.03	0.16	1.20	7.70	30	4	8.90	NCLSHT
NBA0718_4-50	50	4	18	161440.2	161440.2	0.04%	1.84	0.16	2.00	117.05	82	11	119.05	NCLSHT
NBA0818_4-50	50	4	18	157274.1	157274.1	0.00%	0.66	0.23	0.90	11.63	52	7	12.53	NCLSHT
NBA0918_4-50	50	4	18	168431.7	168431.7	0.00%	0.78	0.16	0.95	15.21	36	5	16.17	NCLSHT
NBA006_6-6	6	6	6	5607.3	5607.3	0.00%	0.10	0.04	0.15	0.28	20	4	0.43	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%	0.17	0.06	0.22	0.50	10	2	0.73	NCLSHT
NBA026_6-6	6	6	6	6939.6	6939.6	0.00%	0.13	0.05	0.18	0.36	15	3	0.55	NCLSHT
NBA036_6-6	6	6	6	7315.9	7315.9	0.00%	0.12	0.04	0.16	0.27	10	2	0.44	NCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_6-6	6	6	6	8021.5	8021.5	0.05%	0.23	0.06	0.30	0.46	10	2	0.76	NCLSHT
NBA056_6-6	6	6	6	7914.6	7914.6	0.04%	0.14	0.05	0.20	0.82	20	4	1.01	NCLSHT
NBA066_6-6	6	6	6	6661.4	6661.4	0.01%	0.09	0.03	0.13	0.34	15	3	0.46	NCLSHT
NBA076_6-6	6	6	6	7695.6	7695.6	0.00%	0.17	0.07	0.24	0.43	15	3	0.67	NCLSHT
NBA086_6-6	6	6	6	6637.0	6637.0	0.18%	0.16	0.06	0.22	0.44	15	3	0.67	NCLSHT
NBA096_6-6	6	6	6	7393.0	7393.0	0.03%	0.18	0.06	0.25	0.33	10	2	0.58	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%	0.21	0.08	0.28	0.84	34	6	1.13	NCLSHT
NBA0112_6-6	6	6	12	14045.8	14045.8	0.01%	0.40	0.20	0.60	9.05	52	9	9.64	NCLSHT
NBA0212_6-6	6	6	12	14140.5	14140.5	0.00%	0.65	0.19	0.84	1.26	23	4	2.11	NCLSHT
NBA0312_6-6	6	6	12	14710.7	14710.7	0.05%	0.37	0.09	0.46	4.73	63	11	5.19	NCLSHT
NBA0412_6-6	6	6	12	14749.6	14749.6	0.00%	0.49	0.29	0.78	5.14	57	10	5.92	NCLSHT
NBA0512_6-6	6	6	12	14517.8	14517.8	0.01%	0.20	0.12	0.32	3.64	46	8	3.97	NCLSHT
NBA0612_6-6	6	6	12	12568.0	12568.0	0.00%	0.35	0.06	0.41	3.72	46	8	4.13	NCLSHT
NBA0712_6-6	6	6	12	15109.5	15109.5	0.00%	0.38	0.16	0.54	3.27	51	9	3.82	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%	0.49	0.12	0.61	2.10	40	7	2.71	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%	0.43	0.13	0.56	2.78	46	8	3.34	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%	0.51	0.14	0.65	1.52	38	5	2.17	NCLSHT
NBA0118_6-6	6	6	18	21526.3	21526.3	0.00%	1.05	0.23	1.28	8.83	46	6	10.11	NCLSHT
NBA0218_6-6	6	6	18	19870.5	19870.5	0.00%	0.87	0.26	1.13	3.00	30	4	4.13	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%	0.80	0.31	1.10	4.98	52	7	6.08	NCLSHT
NBA0418_6-6	6	6	18	21955.9	21955.9	0.01%	1.53	0.54	2.08	4.76	38	5	6.84	NCLSHT
NBA0518_6-6	6	6	18	22131.6	22131.6	0.01%	0.65	0.19	0.84	9.49	52	7	10.33	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%	0.70	0.08	0.78	4.53	38	5	5.32	NCLSHT
NBA0718_6-6	6	6	18	21763.2	21763.2	0.02%	0.85	0.23	1.08	5.17	52	7	6.25	NCLSHT
NBA0818_6-6	6	6	18	19912.4	19912.4	0.02%	1.10	0.16	1.26	9.06	66	9	10.33	NCLSHT
NBA0918_6-6	6	6	18	21294.7	21294.7	0.00%	0.89	0.23	1.12	9.70	74	10	10.82	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%	0.20	0.04	0.24	1.01	15	3	1.26	NCLSHT
NBA016_6-12	12	6	6	13035.9	13035.9	0.02%	0.19	0.05	0.24	1.01	15	3	1.25	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%	0.13	0.04	0.17	0.53	20	4	0.70	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%	0.17	0.06	0.23	0.62	20	4	0.85	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%	0.14	0.06	0.20	0.48	15	3	0.68	NCLSHT
NBA056_6-12	12	6	6	12344.0	12344.0	0.09%	0.12	0.05	0.18	0.44	15	3	0.62	NCLSHT
NBA066_6-12	12	6	6	11667.8	11667.8	0.22%	0.20	0.05	0.26	1.58	20	4	1.84	NCLSHT
NBA076_6-12	12	6	6	13479.1	13479.1	0.00%	0.23	0.04	0.28	1.43	20	4	1.71	NCLSHT
NBA086_6-12	12	6	6	13379.8	13379.8	0.04%	0.23	0.04	0.27	1.69	20	4	1.96	NCLSHT
NBA096_6-12	12	6	6	14325.4	14325.4	0.17%	0.19	0.04	0.23	1.19	15	3	1.42	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%	0.35	0.13	0.48	2.93	34	6	3.41	NCLSHT
NBA0112_6-12	12	6	12	25521.9	25521.9	0.00%	0.41	0.06	0.47	4.99	40	7	5.47	NCLSHT
NBA0212_6-12	12	6	12	24025.6	24025.6	0.00%	0.58	0.07	0.64	11.59	69	12	12.23	NCLSHT
NBA0312_6-12	12	6	12	26446.1	26446.1	0.00%	0.32	0.12	0.44	4.89	45	8	5.33	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%	0.23	0.05	0.28	2.22	34	6	2.51	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%	0.43	0.09	0.53	2.93	34	6	3.45	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%	0.47	0.09	0.56	4.27	29	5	4.83	NCLSHT
NBA0712_6-12	12	6	12	27892.6	27892.6	0.06%	0.55	0.09	0.64	14.78	29	5	15.42	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%	0.68	0.07	0.76	11.09	46	8	11.85	NCLSHT
NBA0912_6-12	12	6	12	27276.2	27276.2	0.00%	0.48	0.12	0.60	22.09	52	9	22.69	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%	0.90	0.08	0.98	4.56	30	4	5.55	NCLSHT
NBA0118_6-12	12	6	18	40980.5	40980.5	0.02%	1.12	0.11	1.23	16.68	44	6	17.92	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%	0.54	0.11	0.65	6.05	30	4	6.71	NCLSHT
NBA0318_6-12	12	6	18	38314.3	38314.3	0.00%	0.64	0.08	0.72	6.72	38	5	7.45	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%	0.49	0.09	0.59	6.54	38	5	7.13	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%	0.59	0.21	0.80	9.00	38	5	9.80	NCLSHT
NBA0618_6-12	12	6	18	37140.3	37140.3	0.00%	1.03	0.11	1.14	16.21	52	7	17.35	NCLSHT
NBA0718_6-12	12	6	18	41275.8	41275.8	0.00%	1.65	0.14	1.79	24.04	60	8	25.83	NCLSHT
NBA0818_6-12	12	6	18	39068.6	39068.6	0.14%	1.19	0.11	1.31	48.00	30	4	49.31	NCLSHT
NBA0918_6-12	12	6	18	41037.3	41037.3	0.02%	0.73	0.21	0.94	20.02	38	5	20.96	NCLSHT
NBA006_6-25	25	6	6	25557.6	25557.6	0.01%	0.34	0.05	0.40	2.43	15	3	2.83	NCLSHT
NBA016_6-25	25	6	6	25300.6	25300.6	0.00%	0.28	0.06	0.34	1.61	15	3	1.95	NCLSHT
NBA026_6-25	25	6	6	26727.4	26727.4	0.04%	0.21	0.04	0.26	1.43	15	3	1.69	NCLSHT
NBA036_6-25	25	6	6	26599.6	26599.6	0.13%	0.34	0.15	0.49	3.77	10	2	4.26	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%	0.34	0.07	0.41	3.69	20	4	4.10	NCLSHT
NBA056_6-25	25	6	6	26229.3	26229.3	0.03%	0.25	0.04	0.30	3.57	15	3	3.87	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%	0.19	0.08	0.27	0.96	15	3	1.23	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%	0.32	0.06	0.38	1.59	15	3	1.97	NCLSHT
NBA086_6-25	25	6	6	26567.2	26567.2	0.02%	0.26	0.04	0.31	0.87	10	2	1.18	NCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_6-25	25	6	6	26259.9	26259.9	0.00%	0.36	0.07	0.43	1.97	20	4	2.39	NCLSHT
NBA0012_6-25	25	6	12	52242.9	52242.9	0.00%	0.85	0.11	0.96	28.60	46	8	29.56	NCLSHT
NBA0112_6-25	25	6	12	52477.0	52477.0	0.01%	0.83	0.08	0.92	38.81	29	5	39.74	NCLSHT
NBA0212_6-25	25	6	12	53883.4	53883.4	0.01%	0.69	0.09	0.78	14.58	46	8	15.37	NCLSHT
NBA0312_6-25	25	6	12	52210.6	52210.6	0.08%	0.82	0.12	0.95	40.86	40	7	41.81	NCLSHT
NBA0412_6-25	25	6	12	55772.0	55772.0	0.10%	0.84	0.16	1.00	42.47	23	4	43.47	NCLSHT
NBA0512_6-25	25	6	12	51652.6	51652.6	0.03%	0.84	0.15	1.00	33.95	23	4	34.95	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%	0.42	0.08	0.50	4.04	40	7	4.55	NCLSHT
NBA0712_6-25	25	6	12	52538.3	52538.3	0.03%	0.83	0.09	0.92	10.12	17	3	11.05	NCLSHT
NBA0812_6-25	25	6	12	51075.3	51075.3	0.00%	0.58	0.21	0.79	7.12	23	4	7.91	NCLSHT
NBA0912_6-25	25	6	12	53462.0	53462.0	0.00%	0.44	0.12	0.56	29.90	51	9	30.47	NCLSHT
NBA0018_6-25	25	6	18	76073.4	76073.4	0.04%	1.51	0.20	1.72	64.74	30	4	66.46	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%	1.28	0.20	1.49	23.31	22	3	24.81	NCLSHT
NBA0218_6-25	25	6	18	81495.4	81495.4	0.01%	1.50	0.16	1.66	38.53	52	7	40.19	NCLSHT
NBA0318_6-25	25	6	18	79343.7	79343.7	0.05%	1.61	0.18	1.80	49.06	30	4	50.87	NCLSHT
NBA0418_6-25	25	6	18	84604.9	84604.9	0.10%	1.40	0.27	1.68	63.55	22	3	65.23	NCLSHT
NBA0518_6-25	25	6	18	80778.5	80778.5	0.00%	1.08	0.18	1.26	35.71	60	8	36.98	NCLSHT
NBA0618_6-25	25	6	18	76162.0	76162.0	0.00%	0.69	0.19	0.88	6.95	30	4	7.83	NCLSHT
NBA0718_6-25	25	6	18	77487.6	77487.6	0.01%	1.08	0.11	1.20	43.00	44	6	44.21	NCLSHT
NBA0818_6-25	25	6	18	74936.0	74936.0	0.00%	1.13	0.17	1.31	22.93	44	6	24.24	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%	1.25	0.14	1.39	19.99	38	5	21.39	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%	0.40	0.11	0.51	1.64	15	3	2.15	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%	0.44	0.13	0.58	2.33	10	2	2.92	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%	0.43	0.13	0.57	2.53	15	3	3.10	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%	0.31	0.06	0.37	1.36	15	3	1.75	NCLSHT
NBA046_6-50	50	6	6	53895.4	53895.4	0.03%	0.62	0.34	0.96	8.12	20	4	9.08	NCLSHT
NBA056_6-50	50	6	6	52662.0	52662.0	0.01%	0.42	0.09	0.52	2.85	15	3	3.37	NCLSHT
NBA066_6-50	50	6	6	51789.5	51789.5	0.01%	0.57	0.12	0.70	13.81	20	4	14.52	NCLSHT
NBA076_6-50	50	6	6	53947.6	53947.6	0.00%	0.43	0.09	0.52	2.76	20	4	3.28	NCLSHT
NBA086_6-50	50	6	6	50767.6	50767.6	0.00%	0.32	0.10	0.42	1.60	15	3	2.02	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%	0.28	0.08	0.36	1.72	15	3	2.09	NCLSHT
NBA0012_6-50	50	6	12	102385.2	102385.2	0.00%	0.88	0.19	1.08	12.02	40	7	13.10	NCLSHT
NBA0112_6-50	50	6	12	101403.3	101403.3	0.00%	0.93	0.23	1.16	18.62	40	7	19.79	NCLSHT
NBA0212_6-50	50	6	12	104862.2	104862.2	0.00%	1.07	0.19	1.26	22.82	23	4	24.08	NCLSHT
NBA0312_6-50	50	6	12	102384.7	102384.7	0.00%	0.88	0.12	1.01	8.40	17	3	9.42	NCLSHT
NBA0412_6-50	50	6	12	109568.0	109568.0	0.00%	1.38	0.32	1.71	15.53	17	3	17.25	NCLSHT
NBA0512_6-50	50	6	12	105138.8	105138.8	0.00%	0.97	0.22	1.20	123.98	68	12	125.18	NCLSHT
NBA0612_6-50	50	6	12	101764.2	101764.2	0.00%	1.36	0.15	1.52	33.65	46	8	35.18	NCLSHT
NBA0712_6-50	50	6	12	107431.9	107431.9	0.00%	0.71	0.18	0.89	15.94	52	9	16.84	NCLSHT
NBA0812_6-50	50	6	12	99742.5	99742.5	0.00%	0.95	0.19	1.15	5.04	17	3	6.19	NCLSHT
NBA0912_6-50	50	6	12	102196.8	102196.8	0.00%	1.00	0.21	1.22	8.99	17	3	10.21	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%	1.79	0.28	2.08	20.08	38	5	22.17	NCLSHT
NBA0118_6-50	50	6	18	150750.2	150750.2	0.01%	1.73	0.39	2.13	38.80	22	3	40.93	NCLSHT
NBA0218_6-50	50	6	18	154214.9	154214.9	0.01%	2.70	0.37	3.09	37.70	22	3	40.80	NCLSHT
NBA0318_6-50	50	6	18	154041.9	154041.9	0.01%	1.83	0.33	2.18	58.48	66	9	60.66	NCLSHT
NBA0418_6-50	50	6	18	164544.9	164544.9	0.00%	1.83	0.54	2.38	48.36	38	5	50.75	NCLSHT
NBA0518_6-50	50	6	18	155179.1	155179.1	0.03%	1.57	0.28	1.87	81.00	30	4	82.87	NCLSHT
NBA0618_6-50	50	6	18	153862.5	153862.5	0.03%	2.07	0.38	2.47	60.59	22	3	63.06	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%	1.77	0.28	2.06	50.40	52	7	52.47	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%	1.40	0.43	1.84	33.16	30	4	35.00	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%	1.33	0.19	1.53	25.24	52	7	26.77	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%	0.11	0.02	0.13	0.22	10	2	0.34	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%	0.06	0.01	0.07	0.03	5	1	0.10	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%	0.08	0.02	0.10	0.25	15	3	0.35	NCLSLT
NBB036_2-6	6	2	6	7766.3	7766.3	0.07%	0.08	0.02	0.10	0.19	10	2	0.29	NCLSLT
NBB046_2-6	6	2	6	7823.4	7823.4	0.32%	0.09	0.02	0.11	0.42	15	3	0.54	NCLSLT
NBB056_2-6	6	2	6	9352.5	9352.5	0.00%	0.08	0.02	0.10	0.07	10	2	0.17	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%	0.08	0.02	0.11	0.21	15	3	0.32	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%	0.11	0.03	0.13	0.40	20	4	0.54	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%	0.09	0.02	0.10	0.06	5	1	0.16	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%	0.05	0.02	0.08	0.12	15	3	0.20	NCLSLT
NBB0012_2-6	6	2	12	15489.2	15489.2	0.00%	0.27	0.03	0.30	1.65	35	6	1.94	NCLSLT
NBB0112_2-6	6	2	12	13322.4	13322.4	0.00%	0.22	0.02	0.25	0.81	34	6	1.06	NCLSLT
NBB0212_2-6	6	2	12	14629.1	14629.1	0.27%	0.20	0.03	0.22	1.14	34	6	1.36	NCLSLT
NBB0312_2-6	6	2	12	14732.6	14732.6	0.01%	0.23	0.03	0.26	1.81	51	9	2.08	NCLSLT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0412_2-6	6	2	12	13598.3	13598.3	0.00%	0.28	0.04	0.32	2.77	47	8	3.10	NCLSLT
NBB0512_2-6	6	2	12	17351.7	17351.7	0.07%	0.14	0.02	0.16	1.10	34	6	1.26	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%	0.12	0.03	0.15	0.58	17	3	0.73	NCLSLT
NBB0712_2-6	6	2	12	16591.7	16591.7	0.00%	0.17	0.03	0.20	1.79	40	7	1.99	NCLSLT
NBB0812_2-6	6	2	12	14140.1	14140.1	0.00%	0.17	0.02	0.19	1.36	34	6	1.56	NCLSLT
NBB0912_2-6	6	2	12	16078.0	16078.0	0.02%	0.10	0.02	0.12	0.49	17	3	0.62	NCLSLT
NBB0018_2-6	6	2	18	21645.9	21645.9	0.02%	0.38	0.04	0.42	7.46	52	7	7.89	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%	0.25	0.03	0.28	0.96	30	4	1.25	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%	0.37	0.05	0.42	2.24	38	5	2.67	NCLSLT
NBB0418_2-6	6	2	18	20036.3	20036.3	0.11%	0.47	0.04	0.51	3.40	36	5	3.91	NCLSLT
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%	0.20	0.03	0.24	1.23	30	4	1.46	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%	0.37	0.04	0.41	2.49	52	7	2.90	NCLSLT
NBB0718_2-6	6	2	18	24299.8	24299.8	0.00%	0.39	0.04	0.43	6.23	66	9	6.66	NCLSLT
NBB0818_2-6	6	2	18	20809.2	20809.2	0.00%	0.28	0.05	0.34	4.29	66	9	4.62	NCLSLT
NBB0918_2-6	6	2	18	22438.7	22438.7	0.01%	0.18	0.04	0.22	1.12	30	4	1.34	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%	0.09	0.02	0.11	0.06	5	1	0.17	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%	0.12	0.02	0.14	0.19	10	2	0.34	NCLSLT
NBB026_2-12	12	2	6	14057.0	14057.0	0.02%	0.13	0.03	0.16	0.48	15	3	0.64	NCLSLT
NBB036_2-12	12	2	6	16322.7	16322.7	0.03%	0.08	0.01	0.10	0.24	10	2	0.34	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%	0.13	0.02	0.15	0.21	10	2	0.36	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%	0.08	0.03	0.11	0.37	20	4	0.49	NCLSLT
NBB066_2-12	12	2	6	13804.5	13804.5	0.41%	0.10	0.02	0.12	0.25	10	2	0.37	NCLSLT
NBB076_2-12	12	2	6	15396.6	15396.6	0.00%	0.09	0.02	0.12	0.30	15	3	0.42	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%	0.09	0.01	0.11	0.11	10	2	0.22	NCLSLT
NBB096_2-12	12	2	6	15906.8	15906.8	0.43%	0.17	0.02	0.19	0.46	15	3	0.65	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%	0.17	0.03	0.20	0.63	17	3	0.83	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%	0.19	0.03	0.22	0.95	34	6	1.17	NCLSLT
NBB0212_2-12	12	2	12	27060.1	27060.1	0.03%	0.28	0.07	0.36	3.84	40	7	4.20	NCLSLT
NBB0312_2-12	12	2	12	31689.7	31689.7	0.04%	0.25	0.03	0.28	1.67	40	7	1.95	NCLSLT
NBB0412_2-12	12	2	12	28227.9	28227.9	0.01%	0.18	0.03	0.21	4.23	63	11	4.45	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%	0.21	0.04	0.25	0.74	17	3	0.99	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%	0.19	0.04	0.23	0.78	23	4	1.01	NCLSLT
NBB0712_2-12	12	2	12	30253.9	30253.9	0.03%	0.20	0.03	0.23	1.24	23	4	1.47	NCLSLT
NBB0812_2-12	12	2	12	26625.0	26625.0	0.00%	0.27	0.04	0.31	2.10	40	7	2.41	NCLSLT
NBB0912_2-12	12	2	12	30969.6	30969.6	0.22%	0.34	0.03	0.38	24.56	57	10	24.94	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%	0.47	0.04	0.51	2.62	44	6	3.14	NCLSLT
NBB0118_2-12	12	2	18	40340.6	40340.6	0.00%	0.36	0.05	0.41	7.63	74	10	8.04	NCLSLT
NBB0218_2-12	12	2	18	41453.3	41453.3	0.07%	0.67	0.07	0.74	10.40	52	7	11.15	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%	0.34	0.05	0.39	6.65	44	6	7.04	NCLSLT
NBB0418_2-12	12	2	18	44144.3	44144.3	0.08%	0.30	0.08	0.38	5.39	38	5	5.77	NCLSLT
NBB0518_2-12	12	2	18	47248.5	47248.5	0.03%	0.34	0.05	0.39	2.85	30	4	3.24	NCLSLT
NBB0618_2-12	12	2	18	40542.2	40542.2	0.00%	0.39	0.07	0.46	3.04	38	5	3.51	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%	0.26	0.04	0.30	2.79	44	6	3.09	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%	0.51	0.07	0.58	5.71	52	7	6.29	NCLSLT
NBB0918_2-12	12	2	18	47153.6	47153.6	0.21%	0.57	0.04	0.61	16.17	30	4	16.78	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%	0.14	0.03	0.17	0.27	10	2	0.44	NCLSLT
NBB016_2-25	25	2	6	29864.0	29864.0	0.08%	0.20	0.03	0.23	0.75	15	3	0.97	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%	0.21	0.02	0.23	0.38	10	2	0.62	NCLSLT
NBB036_2-25	25	2	6	30155.8	30155.8	0.11%	0.21	0.02	0.23	0.71	10	2	0.94	NCLSLT
NBB046_2-25	25	2	6	31325.2	31325.2	0.02%	0.20	0.03	0.23	0.56	15	3	0.79	NCLSLT
NBB056_2-25	25	2	6	31397.4	31397.4	0.13%	0.27	0.03	0.30	0.52	10	2	0.82	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%	0.10	0.04	0.15	0.24	10	2	0.40	NCLSLT
NBB076_2-25	25	2	6	31237.5	31237.5	0.03%	0.25	0.03	0.28	0.57	15	3	0.86	NCLSLT
NBB086_2-25	25	2	6	31973.8	31973.8	0.03%	0.22	0.04	0.26	0.80	15	3	1.07	NCLSLT
NBB096_2-25	25	2	6	33004.5	33004.5	0.08%	0.20	0.03	0.23	0.98	15	3	1.22	NCLSLT
NBB0012_2-25	25	2	12	58130.1	58130.1	0.01%	0.20	0.05	0.25	2.01	34	6	2.27	NCLSLT
NBB0112_2-25	25	2	12	60823.5	60823.5	0.03%	0.35	0.10	0.45	4.46	17	3	4.92	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%	0.67	0.04	0.71	3.04	34	6	3.75	NCLSLT
NBB0312_2-25	25	2	12	59102.8	59102.8	0.03%	0.36	0.05	0.42	2.85	29	5	3.27	NCLSLT
NBB0412_2-25	25	2	12	59526.7	59526.7	0.00%	0.38	0.07	0.45	6.04	57	10	6.49	NCLSLT
NBB0512_2-25	25	2	12	64754.7	64754.7	0.00%	0.41	0.04	0.46	3.78	34	6	4.24	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%	0.14	0.07	0.21	0.96	23	4	1.18	NCLSLT
NBB0712_2-25	25	2	12	62685.7	62685.7	0.00%	0.42	0.05	0.48	5.53	46	8	6.01	NCLSLT
NBB0812_2-25	25	2	12	62621.4	62621.4	0.01%	0.47	0.04	0.52	5.52	29	5	6.04	NCLSLT
NBB0912_2-25	25	2	12	63811.6	63811.6	0.01%	0.30	0.04	0.35	4.08	57	10	4.43	NCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%	0.35	0.05	0.41	1.60	22	3	2.01	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%	0.73	0.08	0.81	4.34	44	6	5.16	NCLSLT
NBB0218_2-25	25	2	18	83121.4	83121.4	0.05%	0.77	0.07	0.84	6.85	22	3	7.69	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%	0.44	0.11	0.55	4.41	30	4	4.96	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.01%	0.85	0.06	0.92	10.58	52	7	11.51	NCLSLT
NBB0518_2-25	25	2	18	94848.1	94848.1	0.11%	0.94	0.08	1.02	39.85	30	4	40.87	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%	0.45	0.06	0.51	2.42	36	5	2.93	NCLSLT
NBB0718_2-25	25	2	18	92026.0	92026.0	0.01%	0.95	0.14	1.10	22.73	60	8	23.83	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.03%	0.77	0.06	0.83	11.64	38	5	12.47	NCLSLT
NBB0918_2-25	25	2	18	92931.5	92931.5	0.01%	0.61	0.08	0.69	8.45	30	4	9.14	NCLSLT
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%	0.22	0.03	0.26	0.34	10	2	0.59	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%	0.27	0.05	0.32	0.44	10	2	0.77	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%	0.29	0.05	0.35	0.78	15	3	1.13	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%	0.32	0.03	0.35	0.88	15	3	1.24	NCLSLT
NBB046_2-50	50	2	6	60651.7	60651.7	0.00%	0.38	0.05	0.43	1.07	10	2	1.50	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%	0.28	0.06	0.34	0.80	15	3	1.14	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%	0.24	0.05	0.29	0.76	15	3	1.05	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%	0.30	0.04	0.35	0.55	10	2	0.89	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%	0.38	0.04	0.41	1.29	15	3	1.71	NCLSLT
NBB096_2-50	50	2	6	60526.4	60526.4	0.00%	0.30	0.05	0.35	0.84	10	2	1.19	NCLSLT
NBB0012_2-50	50	2	12	117269.4	117269.4	0.00%	0.31	0.06	0.37	3.44	40	7	3.81	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%	0.57	0.11	0.69	2.81	28	5	3.50	NCLSLT
NBB0212_2-50	50	2	12	113901.0	113901.0	0.00%	0.63	0.09	0.72	7.62	28	5	8.35	NCLSLT
NBB0312_2-50	50	2	12	119784.4	119784.4	0.00%	0.54	0.10	0.64	5.99	34	6	6.63	NCLSLT
NBB0412_2-50	50	2	12	121909.7	121909.7	0.00%	0.73	0.08	0.81	4.94	17	3	5.76	NCLSLT
NBB0512_2-50	50	2	12	119153.5	119153.5	0.00%	0.38	0.05	0.43	2.11	17	3	2.54	NCLSLT
NBB0612_2-50	50	2	12	113553.7	113553.7	0.00%	0.32	0.09	0.41	2.59	28	5	3.00	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%	0.69	0.11	0.81	5.19	17	3	6.00	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%	0.57	0.07	0.65	4.25	23	4	4.90	NCLSLT
NBB0912_2-50	50	2	12	122296.0	122296.0	0.01%	0.61	0.06	0.67	5.97	40	7	6.65	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%	0.45	0.08	0.54	3.90	30	4	4.44	NCLSLT
NBB0118_2-50	50	2	18	178702.4	178702.4	0.00%	0.54	0.17	0.72	6.85	44	6	7.57	NCLSLT
NBB0218_2-50	50	2	18	169531.4	169531.4	0.00%	1.07	0.10	1.18	13.51	44	6	14.70	NCLSLT
NBB0318_2-50	50	2	18	180942.2	180942.2	0.01%	0.78	0.12	0.90	9.73	36	5	10.64	NCLSLT
NBB0418_2-50	50	2	18	181462.5	181462.5	0.02%	1.21	0.11	1.33	52.01	36	5	53.34	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%	0.72	0.10	0.82	4.56	22	3	5.39	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%	0.80	0.11	0.92	4.43	22	3	5.34	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%	0.70	0.11	0.81	9.88	36	5	10.69	NCLSLT
NBB0818_2-50	50	2	18	173339.2	173339.2	0.01%	1.54	0.12	1.66	19.87	52	7	21.53	NCLSLT
NBB0918_2-50	50	2	18	182739.8	182739.8	0.00%	1.04	0.10	1.15	8.16	22	3	9.32	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%	0.12	0.04	0.16	0.46	15	3	0.62	NCLSLT
NBB016_4-6	6	4	6	7260.5	7260.5	0.13%	0.15	0.07	0.23	0.72	15	3	0.95	NCLSLT
NBB026_4-6	6	4	6	7331.9	7331.9	0.03%	0.14	0.04	0.18	0.41	15	3	0.58	NCLSLT
NBB036_4-6	6	4	6	6717.6	6717.6	0.16%	0.14	0.04	0.18	0.52	15	3	0.70	NCLSLT
NBB046_4-6	6	4	6	5589.8	5589.8	0.37%	0.11	0.02	0.14	0.25	10	2	0.39	NCLSLT
NBB056_4-6	6	4	6	7899.0	7899.0	0.00%	0.18	0.04	0.22	1.40	20	4	1.62	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%	0.16	0.03	0.19	0.30	15	3	0.49	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%	0.11	0.03	0.15	0.16	10	2	0.31	NCLSLT
NBB086_4-6	6	4	6	5863.2	5863.2	0.00%	0.14	0.02	0.17	0.33	15	3	0.50	NCLSLT
NBB096_4-6	6	4	6	8521.1	8521.1	0.00%	0.14	0.03	0.17	0.30	10	2	0.47	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%	0.23	0.06	0.28	0.92	29	5	1.20	NCLSLT
NBB0112_4-6	6	4	12	15228.5	15228.5	0.00%	0.33	0.09	0.42	5.15	40	7	5.57	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%	0.35	0.07	0.42	3.11	46	8	3.53	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%	0.33	0.08	0.42	1.09	23	4	1.52	NCLSLT
NBB0412_4-6	6	4	12	12883.9	12883.9	0.00%	0.38	0.10	0.47	7.15	40	7	7.63	NCLSLT
NBB0512_4-6	6	4	12	15811.1	15811.1	0.02%	0.39	0.27	0.66	16.16	40	7	16.82	NCLSLT
NBB0612_4-6	6	4	12	12773.8	12773.8	0.00%	0.42	0.08	0.50	1.66	40	7	2.16	NCLSLT
NBB0712_4-6	6	4	12	14712.6	14712.6	0.00%	0.28	0.05	0.33	2.14	46	8	2.47	NCLSLT
NBB0812_4-6	6	4	12	12363.6	12363.6	0.00%	0.32	0.07	0.40	3.35	46	8	3.74	NCLSLT
NBB0912_4-6	6	4	12	14839.4	14839.4	0.02%	0.35	0.04	0.39	0.81	23	4	1.20	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%	0.59	0.10	0.69	5.37	44	6	6.06	NCLSLT
NBB0118_4-6	6	4	18	21716.4	21716.4	0.00%	0.79	0.12	0.92	15.40	82	11	16.32	NCLSLT
NBB0218_4-6	6	4	18	21368.4	21368.4	-0.32%	0.60	0.10	0.70	4.93	44	6	5.64	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%	0.62	0.10	0.73	5.65	52	7	6.38	NCLSLT
NBB0418_4-6	6	4	18	19969.8	19969.8	0.00%	0.68	0.08	0.76	10.36	52	7	11.12	NCLSLT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_4-6	6	4	18	23482.1	23482.1	0.00%	0.93	0.12	1.05	12.72	38	5	13.77	NCLSLT
NBB0618_4-6	6	4	18	19868.3	19868.3	0.00%	0.91	0.12	1.04	6.90	44	6	7.94	NCLSLT
NBB0718_4-6	6	4	18	22416.2	22416.2	0.00%	0.64	0.09	0.74	7.17	74	10	7.91	NCLSLT
NBB0818_4-6	6	4	18	18186.6	18186.6	0.00%	0.99	0.07	1.06	2.63	30	4	3.69	NCLSLT
NBB0918_4-6	6	4	18	22163.4	22163.4	0.10%	0.72	0.07	0.78	1.72	22	3	2.51	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%	0.19	0.03	0.22	0.67	10	2	0.89	NCLSLT
NBB016_4-12	12	4	6	15429.4	15429.4	0.02%	0.26	0.07	0.32	1.97	20	4	2.29	NCLSLT
NBB026_4-12	12	4	6	13158.9	13158.9	0.00%	0.14	0.03	0.17	0.80	20	4	0.97	NCLSLT
NBB036_4-12	12	4	6	12368.3	12368.3	0.07%	0.21	0.04	0.25	1.42	20	4	1.67	NCLSLT
NBB046_4-12	12	4	6	14382.5	14382.5	0.12%	0.17	0.03	0.20	0.67	15	3	0.87	NCLSLT
NBB056_4-12	12	4	6	14179.6	14179.6	0.08%	0.15	0.03	0.18	0.60	10	2	0.79	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%	0.15	0.04	0.19	0.30	15	3	0.49	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%	0.19	0.04	0.23	0.43	10	2	0.66	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%	0.18	0.03	0.22	0.61	15	3	0.83	NCLSLT
NBB096_4-12	12	4	6	13281.2	13281.2	0.00%	0.18	0.04	0.22	2.55	25	5	2.77	NCLSLT
NBB0012_4-12	12	4	12	24819.5	24819.5	0.04%	0.44	0.16	0.60	12.01	35	6	12.62	NCLSLT
NBB0112_4-12	12	4	12	28631.4	28631.4	0.13%	0.71	0.14	0.85	21.59	57	10	22.44	NCLSLT
NBB0212_4-12	12	4	12	26534.4	26534.4	0.00%	0.39	0.09	0.48	3.80	23	4	4.28	NCLSLT
NBB0312_4-12	12	4	12	25484.4	25484.4	0.00%	0.42	0.06	0.47	5.24	40	7	5.71	NCLSLT
NBB0412_4-12	12	4	12	27361.6	27361.6	0.00%	0.42	0.06	0.48	5.91	46	8	6.40	NCLSLT
NBB0512_4-12	12	4	12	27954.2	27954.2	0.00%	0.32	0.08	0.40	8.30	34	6	8.70	NCLSLT
NBB0612_4-12	12	4	12	24618.3	24618.3	0.00%	0.23	0.11	0.34	2.55	51	9	2.89	NCLSLT
NBB0712_4-12	12	4	12	26357.1	26357.1	0.00%	0.49	0.10	0.60	5.45	29	5	6.05	NCLSLT
NBB0812_4-12	12	4	12	28127.9	28127.9	0.00%	0.49	0.05	0.55	3.58	34	6	4.13	NCLSLT
NBB0912_4-12	12	4	12	28664.7	28664.7	0.20%	0.80	0.12	0.93	18.77	28	5	19.70	NCLSLT
NBB0018_4-12	12	4	18	38515.7	38515.7	0.26%	0.84	0.11	0.94	42.02	60	8	42.97	NCLSLT
NBB0118_4-12	12	4	18	42094.4	42094.4	0.26%	1.46	0.21	1.66	77.56	60	8	79.23	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%	0.73	0.07	0.81	13.12	52	7	13.93	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%	1.05	0.12	1.16	18.77	44	6	19.93	NCLSLT
NBB0418_4-12	12	4	18	40754.9	40754.9	0.00%	0.74	0.15	0.89	27.61	60	8	28.51	NCLSLT
NBB0518_4-12	12	4	18	41198.4	41198.4	0.08%	0.89	0.16	1.06	15.59	22	3	16.65	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%	0.51	0.06	0.57	3.60	30	4	4.17	NCLSLT
NBB0718_4-12	12	4	18	41242.7	41242.7	0.06%	0.68	0.15	0.83	15.71	38	5	16.55	NCLSLT
NBB0818_4-12	12	4	18	42909.0	42909.0	0.02%	0.71	0.13	0.84	9.69	38	5	10.54	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	0.21%	0.93	0.13	1.07	46.81	30	4	47.88	NCLSLT
NBB006_4-25	25	4	6	25620.5	25620.5	0.07%	0.33	0.05	0.39	2.13	15	3	2.52	NCLSLT
NBB016_4-25	25	4	6	29489.7	29489.7	0.00%	0.29	0.06	0.35	1.84	20	4	2.19	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%	0.32	0.07	0.40	3.17	15	3	3.56	NCLSLT
NBB036_4-25	25	4	6	26071.8	26071.8	0.05%	0.32	0.06	0.39	3.73	15	3	4.12	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%	0.19	0.04	0.23	0.41	10	2	0.64	NCLSLT
NBB056_4-25	25	4	6	30184.7	30184.7	0.05%	0.27	0.04	0.31	1.41	15	3	1.72	NCLSLT
NBB066_4-25	25	4	6	25397.8	25397.8	0.05%	0.25	0.04	0.29	0.49	10	2	0.78	NCLSLT
NBB076_4-25	25	4	6	27106.2	27106.2	0.05%	0.33	0.06	0.39	2.98	20	4	3.38	NCLSLT
NBB086_4-25	25	4	6	26279.6	26279.6	0.05%	0.26	0.06	0.31	1.04	15	3	1.36	NCLSLT
NBB096_4-25	25	4	6	27956.4	27956.4	0.00%	0.31	0.04	0.35	1.47	15	3	1.83	NCLSLT
NBB0012_4-25	25	4	12	53749.4	53749.4	0.02%	1.28	0.15	1.43	57.29	80	14	58.72	NCLSLT
NBB0112_4-25	25	4	12	56359.1	56359.1	0.00%	0.56	0.08	0.64	8.29	34	6	8.93	NCLSLT
NBB0212_4-25	25	4	12	53353.5	53353.5	0.08%	0.52	0.08	0.60	45.52	46	8	46.12	NCLSLT
NBB0312_4-25	25	4	12	54139.1	54139.1	0.02%	0.63	0.22	0.85	20.13	23	4	20.99	NCLSLT
NBB0412_4-25	25	4	12	54985.8	54985.8	0.01%	0.47	0.07	0.54	12.07	52	9	12.62	NCLSLT
NBB0512_4-25	25	4	12	57156.5	57156.5	0.06%	0.42	0.11	0.54	10.31	40	7	10.85	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%	0.39	0.08	0.47	4.63	29	5	5.29	NCLSLT
NBB0712_4-25	25	4	12	55613.4	55613.4	0.06%	0.75	0.11	0.87	56.10	40	7	56.97	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%	0.57	0.09	0.67	12.04	40	7	12.71	NCLSLT
NBB0912_4-25	25	4	12	54982.5	54982.5	0.11%	0.82	0.07	0.90	53.02	40	7	53.92	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.04%	1.42	0.12	1.54	33.20	38	5	34.74	NCLSLT
NBB0118_4-25	25	4	18	83918.6	83918.6	0.00%	1.30	0.10	1.41	14.16	30	4	15.57	NCLSLT
NBB0218_4-25	25	4	18	81001.7	81001.7	0.07%	1.17	0.14	1.32	85.91	44	6	87.23	NCLSLT
NBB0318_4-25	25	4	18	80534.6	80534.6	0.06%	1.24	0.12	1.37	20.85	22	3	22.22	NCLSLT
NBB0418_4-25	25	4	18	83348.5	83348.5	0.00%	0.52	0.07	0.61	7.53	44	6	8.14	NCLSLT
NBB0518_4-25	25	4	18	84465.4	84465.4	0.08%	1.15	0.15	1.31	38.21	30	4	39.52	NCLSLT
NBB0618_4-25	25	4	18	77417.4	77417.4	0.00%	0.78	0.12	0.90	9.29	44	6	10.20	NCLSLT
NBB0718_4-25	25	4	18	82788.6	82788.6	0.14%	1.58	0.16	1.75	83.00	30	4	84.75	NCLSLT
NBB0818_4-25	25	4	18	78524.1	78524.1	0.00%	1.44	0.11	1.55	18.68	52	7	20.23	NCLSLT
NBB0918_4-25	25	4	18	82454.2	82454.2	0.08%	1.10	0.12	1.23	61.34	30	4	62.57	NCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_4-50	50	4	6	54640.8	54640.8	0.00%	0.44	0.05	0.49	2.09	20	4	2.58	NCLSLT
NBB016_4-50	50	4	6	55422.0	55422.0	0.01%	0.44	0.06	0.51	1.79	15	3	2.30	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%	0.49	0.08	0.57	3.11	20	4	3.68	NCLSLT
NBB036_4-50	50	4	6	55293.0	55293.0	0.04%	0.60	0.09	0.69	7.92	15	3	8.62	NCLSLT
NBB046_4-50	50	4	6	56935.8	56935.8	0.03%	0.52	0.08	0.61	12.62	20	4	13.23	NCLSLT
NBB056_4-50	50	4	6	57378.1	57378.1	0.01%	0.54	0.07	0.62	1.74	10	2	2.36	NCLSLT
NBB066_4-50	50	4	6	52874.7	52874.7	0.01%	0.41	0.10	0.51	2.92	15	3	3.44	NCLSLT
NBB076_4-50	50	4	6	51700.3	51700.3	0.05%	0.56	0.08	0.64	3.46	15	3	4.11	NCLSLT
NBB086_4-50	50	4	6	52926.5	52926.5	0.01%	0.41	0.07	0.48	3.46	15	3	3.94	NCLSLT
NBB096_4-50	50	4	6	60170.2	60170.2	0.01%	0.42	0.10	0.52	2.51	20	4	3.03	NCLSLT
NBB0012_4-50	50	4	12	110453.6	110453.6	0.01%	1.10	0.17	1.27	33.91	23	4	35.19	NCLSLT
NBB0112_4-50	50	4	12	108483.7	108483.7	0.01%	0.76	0.15	0.92	15.99	46	8	16.91	NCLSLT
NBB0212_4-50	50	4	12	108026.3	108026.3	0.01%	1.18	0.12	1.30	8.00	17	3	9.30	NCLSLT
NBB0312_4-50	50	4	12	110201.1	110201.1	0.02%	1.34	0.22	1.57	23.00	17	3	24.58	NCLSLT
NBB0412_4-50	50	4	12	109735.8	109735.8	0.05%	1.14	0.14	1.29	56.40	28	5	57.69	NCLSLT
NBB0512_4-50	50	4	12	112014.1	112014.1	0.00%	0.84	0.08	0.92	7.01	34	6	7.94	NCLSLT
NBB0612_4-50	50	4	12	104018.2	104018.2	0.00%	0.56	0.08	0.64	3.82	23	4	4.47	NCLSLT
NBB0712_4-50	50	4	12	106654.7	106654.7	0.04%	1.08	0.13	1.22	40.83	29	5	42.06	NCLSLT
NBB0812_4-50	50	4	12	106540.0	106540.0	0.02%	0.55	0.13	0.68	9.52	45	8	10.21	NCLSLT
NBB0912_4-50	50	4	12	114387.6	114387.6	0.01%	1.02	0.13	1.16	25.92	40	7	27.08	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.01%	1.64	0.19	1.84	34.01	44	6	35.85	NCLSLT
NBB0118_4-50	50	4	18	161829.7	161829.7	0.01%	1.90	0.21	2.11	23.36	44	6	25.48	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.01%	1.76	0.26	2.03	33.43	30	4	35.46	NCLSLT
NBB0318_4-50	50	4	18	163416.4	163416.4	0.06%	2.73	0.18	2.92	122.40	46	6	125.32	NCLSLT
NBB0418_4-50	50	4	18	166607.1	166607.1	0.05%	2.08	0.12	2.21	68.77	22	3	70.99	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.01%	1.37	0.18	1.55	13.60	22	3	15.15	NCLSLT
NBB0618_4-50	50	4	18	156361.5	156361.5	0.00%	0.97	0.17	1.15	23.67	52	7	24.83	NCLSLT
NBB0718_4-50	50	4	18	161805.2	161805.2	0.06%	2.60	0.21	2.82	81.58	38	5	84.41	NCLSLT
NBB0818_4-50	50	4	18	157360.6	157360.6	0.00%	1.00	0.16	1.17	12.42	44	6	13.59	NCLSLT
NBB0918_4-50	50	4	18	168536.5	168536.5	0.00%	1.52	0.12	1.65	16.89	22	3	18.55	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%	0.16	0.05	0.21	0.34	20	4	0.54	NCLSLT
NBB016_6-6	6	6	6	7369.1	7369.1	0.13%	0.21	0.12	0.33	1.70	20	4	2.03	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%	0.12	0.04	0.16	0.32	15	3	0.48	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%	0.17	0.07	0.23	0.61	15	3	0.84	NCLSLT
NBB046_6-6	6	6	6	8181.5	8181.5	0.15%	0.20	0.06	0.26	0.58	10	2	0.84	NCLSLT
NBB056_6-6	6	6	6	8078.7	8078.7	0.14%	0.16	0.08	0.25	0.65	15	3	0.90	NCLSLT
NBB066_6-6	6	6	6	6774.3	6774.3	0.00%	0.13	0.04	0.17	0.73	20	4	0.91	NCLSLT
NBB076_6-6	6	6	6	7827.1	7827.1	0.00%	0.22	0.06	0.29	0.35	10	2	0.64	NCLSLT
NBB086_6-6	6	6	6	6726.0	6726.0	0.00%	0.20	0.09	0.30	0.41	15	3	0.71	NCLSLT
NBB096_6-6	6	6	6	7605.0	7605.0	0.05%	0.23	0.06	0.29	0.90	15	3	1.19	NCLSLT
NBB0012_6-6	6	6	12	12202.8	12202.8	0.00%	0.27	0.08	0.35	1.28	40	7	1.63	NCLSLT
NBB0112_6-6	6	6	12	14401.9	14401.9	0.00%	0.50	0.22	0.73	4.99	46	8	5.72	NCLSLT
NBB0212_6-6	6	6	12	14375.1	14375.1	0.06%	0.63	0.13	0.76	2.49	34	6	3.25	NCLSLT
NBB0312_6-6	6	6	12	14878.2	14878.2	0.00%	0.53	0.11	0.63	3.93	51	9	4.56	NCLSLT
NBB0412_6-6	6	6	12	15156.9	15156.9	0.13%	0.63	0.19	0.82	5.24	46	8	6.06	NCLSLT
NBB0512_6-6	6	6	12	14837.1	14837.1	0.00%	0.29	0.18	0.48	4.64	40	7	5.12	NCLSLT
NBB0612_6-6	6	6	12	12876.5	12876.5	0.00%	0.54	0.10	0.64	4.17	40	7	4.81	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%	0.55	0.14	0.69	2.23	34	6	2.92	NCLSLT
NBB0812_6-6	6	6	12	12718.1	12718.1	0.15%	0.56	0.17	0.74	3.36	51	9	4.10	NCLSLT
NBB0912_6-6	6	6	12	14398.2	14398.2	0.00%	0.80	0.15	0.95	7.81	34	6	8.76	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%	0.80	0.18	0.99	1.37	30	4	2.35	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%	1.22	0.17	1.40	5.67	46	6	7.07	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%	0.90	0.26	1.16	4.00	38	5	5.16	NCLSLT
NBB0418_6-6	6	6	18	22533.2	22533.2	0.04%	1.60	0.20	1.81	11.05	60	8	12.85	NCLSLT
NBB0518_6-6	6	6	18	22516.1	22516.1	0.03%	0.61	0.28	0.90	7.12	52	7	8.01	NCLSLT
NBB0618_6-6	6	6	18	20310.7	20310.7	0.02%	1.21	0.11	1.32	8.09	30	4	9.41	NCLSLT
NBB0718_6-6	6	6	18	22124.2	22124.2	0.01%	1.11	0.24	1.35	6.07	52	7	7.43	NCLSLT
NBB0818_6-6	6	6	18	20375.3	20375.3	0.20%	1.86	0.29	2.15	6.11	44	6	8.26	NCLSLT
NBB0918_6-6	6	6	18	21834.2	21834.2	0.07%	1.49	0.31	1.80	17.75	38	5	19.55	NCLSLT
NBB006_6-12	12	6	6	12851.3	12851.3	0.17%	0.25	0.04	0.30	0.83	15	3	1.13	NCLSLT
NBB016_6-12	12	6	6	13163.8	13163.8	0.00%	0.29	0.06	0.34	2.09	15	3	2.44	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%	0.19	0.09	0.28	1.62	20	4	1.90	NCLSLT
NBB036_6-12	12	6	6	13024.9	13024.9	0.05%	0.20	0.07	0.26	0.60	10	2	0.87	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%	0.22	0.04	0.26	1.07	20	4	1.33	NCLSLT
NBB056_6-12	12	6	6	12453.2	12453.2	0.34%	0.18	0.05	0.24	0.94	15	3	1.18	NCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB066_6-12	12	6	6	11748.5	11748.5	0.18%	0.28	0.07	0.35	1.19	15	3	1.54	NCLSLT
NBB076_6-12	12	6	6	13651.8	13651.8	0.05%	0.32	0.04	0.36	3.57	20	4	3.94	NCLSLT
NBB086_6-12	12	6	6	13543.9	13543.9	0.11%	0.35	0.05	0.40	2.49	25	5	2.89	NCLSLT
NBB096_6-12	12	6	6	14443.6	14443.6	0.12%	0.31	0.06	0.38	2.48	15	3	2.86	NCLSLT
NBB0012_6-12	12	6	12	24289.2	24289.2	0.00%	0.54	0.11	0.66	8.29	51	9	8.96	NCLSLT
NBB0112_6-12	12	6	12	25782.9	25782.9	0.00%	0.49	0.16	0.65	12.07	63	11	12.73	NCLSLT
NBB0212_6-12	12	6	12	24324.2	24324.2	0.15%	0.63	0.17	0.80	25.69	23	4	26.49	NCLSLT
NBB0312_6-12	12	6	12	26662.3	26662.3	0.00%	0.41	0.14	0.56	6.52	46	8	7.08	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%	0.62	0.16	0.78	4.14	29	5	4.92	NCLSLT
NBB0512_6-12	12	6	12	26407.6	26407.6	0.00%	0.54	0.14	0.68	15.30	40	7	15.98	NCLSLT
NBB0612_6-12	12	6	12	23721.8	23721.8	0.00%	0.61	0.09	0.69	14.46	51	9	15.15	NCLSLT
NBB0712_6-12	12	6	12	28207.0	28207.0	0.10%	0.75	0.13	0.88	57.36	40	7	58.25	NCLSLT
NBB0812_6-12	12	6	12	26077.7	26077.7	0.16%	0.90	0.14	1.04	35.67	63	11	36.72	NCLSLT
NBB0912_6-12	12	6	12	27503.9	27503.9	0.00%	0.55	0.16	0.71	31.95	62	11	32.66	NCLSLT
NBB0018_6-12	12	6	18	36608.8	36608.8	0.00%	1.17	0.10	1.27	12.41	30	4	13.68	NCLSLT
NBB0118_6-12	12	6	18	41385.7	41385.7	0.07%	1.22	0.14	1.36	20.92	30	4	22.28	NCLSLT
NBB0218_6-12	12	6	18	37074.7	37074.7	0.05%	0.85	0.14	0.99	49.12	44	6	50.11	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%	1.02	0.17	1.19	15.95	54	7	17.15	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%	0.77	0.16	0.93	9.30	38	5	10.24	NCLSLT
NBB0518_6-12	12	6	18	40708.1	40708.1	0.03%	0.90	0.18	1.08	13.19	38	5	14.28	NCLSLT
NBB0618_6-12	12	6	18	37618.6	37618.6	0.25%	2.06	0.12	2.18	57.69	38	5	59.87	NCLSLT
NBB0718_6-12	12	6	18	41770.5	41770.5	0.24%	1.41	0.14	1.55	64.11	30	4	65.67	NCLSLT
NBB0818_6-12	12	6	18	39702.8	39702.8	0.30%	1.91	0.35	2.27	92.24	46	6	94.51	NCLSLT
NBB0918_6-12	12	6	18	41492.2	41492.2	0.12%	1.42	0.31	1.73	42.82	38	5	44.54	NCLSLT
NBB006_6-25	25	6	6	25736.7	25736.7	0.03%	0.46	0.07	0.53	36.64	20	4	37.18	NCLSLT
NBB016_6-25	25	6	6	25441.2	25441.2	0.01%	0.64	0.06	0.71	4.25	20	4	4.97	NCLSLT
NBB026_6-25	25	6	6	26825.7	26825.7	0.00%	0.29	0.05	0.34	2.79	15	3	3.13	NCLSLT
NBB036_6-25	25	6	6	26890.7	26890.7	0.09%	0.46	0.18	0.65	20.76	25	5	21.41	NCLSLT
NBB046_6-25	25	6	6	28599.9	28599.9	0.15%	0.58	0.09	0.67	33.29	25	5	33.96	NCLSLT
NBB056_6-25	25	6	6	26370.4	26370.4	0.09%	0.41	0.10	0.51	14.75	15	3	15.26	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%	0.33	0.07	0.40	5.52	20	4	5.93	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%	0.47	0.09	0.56	4.46	20	4	5.02	NCLSLT
NBB086_6-25	25	6	6	26723.8	26723.8	0.03%	0.49	0.14	0.63	18.83	25	5	19.46	NCLSLT
NBB096_6-25	25	6	6	26421.3	26421.3	0.02%	0.55	0.06	0.61	4.58	25	5	5.19	NCLSLT
NBB0012_6-25	25	6	12	52552.0	52552.0	0.14%	1.10	0.14	1.24	58.80	29	5	60.05	NCLSLT
NBB0112_6-25	25	6	12	52730.5	52730.5	0.17%	1.59	0.16	1.75	64.96	23	4	66.71	NCLSLT
NBB0212_6-25	25	6	12	54074.3	54074.3	0.06%	0.79	0.12	0.92	33.87	40	7	34.79	NCLSLT
NBB0312_6-25	25	6	12	52587.8	52587.8	0.24%	1.28	0.25	1.54	177.02	45	8	178.56	NCLSLT
NBB0412_6-25	25	6	12	56126.4	56126.4	0.18%	1.34	0.21	1.55	104.43	29	5	105.98	NCLSLT
NBB0512_6-25	25	6	12	51920.9	51920.9	0.14%	0.91	0.38	1.29	48.93	23	4	50.23	NCLSLT
NBB0612_6-25	25	6	12	51037.6	51037.6	0.00%	0.87	0.11	0.98	13.84	57	10	14.82	NCLSLT
NBB0712_6-25	25	6	12	52858.3	52858.3	0.12%	0.98	0.17	1.15	52.93	29	5	54.09	NCLSLT
NBB0812_6-25	25	6	12	51275.6	51275.6	0.00%	0.88	0.16	1.04	33.19	40	7	34.23	NCLSLT
NBB0912_6-25	25	6	12	53721.2	53721.2	0.05%	0.86	0.17	1.04	38.14	23	4	39.17	NCLSLT
NBB0018_6-25	25	6	18	76596.0	76596.0	0.23%	2.44	0.30	2.75	231.51	44	6	234.27	NCLSLT
NBB0118_6-25	25	6	18	79519.5	79519.5	0.10%	2.00	0.20	2.20	91.19	30	4	93.40	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.06%	2.76	0.20	2.97	44.22	22	3	47.20	NCLSLT
NBB0318_6-25	25	6	18	80013.5	80013.5	0.26%	2.56	0.49	3.05	230.60	30	4	233.66	NCLSLT
NBB0418_6-25	25	6	18	85065.5	85065.5	0.14%	1.95	0.28	2.24	202.34	38	5	204.58	NCLSLT
NBB0518_6-25	25	6	18	81134.2	81134.2	0.10%	1.39	0.25	1.65	146.67	44	6	148.32	NCLSLT
NBB0618_6-25	25	6	18	76379.8	76379.8	0.00%	1.50	0.16	1.66	12.39	22	3	14.06	NCLSLT
NBB0718_6-25	25	6	18	77912.8	77912.8	0.14%	1.68	0.15	1.84	109.06	22	3	110.91	NCLSLT
NBB0818_6-25	25	6	18	75256.0	75256.0	0.09%	1.94	0.30	2.25	82.19	30	4	84.45	NCLSLT
NBB0918_6-25	25	6	18	81482.5	81482.5	0.08%	1.67	0.15	1.83	72.17	30	4	74.00	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%	0.66	0.10	0.77	8.49	15	3	9.26	NCLSLT
NBB016_6-50	50	6	6	50707.6	50707.6	0.04%	0.59	0.13	0.73	17.99	20	4	18.72	NCLSLT
NBB026_6-50	50	6	6	52243.8	52243.8	0.04%	0.81	0.09	0.91	46.27	20	4	47.18	NCLSLT
NBB036_6-50	50	6	6	51745.7	51745.7	0.00%	0.74	0.12	0.87	7.66	10	2	8.53	NCLSLT
NBB046_6-50	50	6	6	54085.5	54085.5	0.06%	0.77	0.21	0.98	32.52	20	4	33.51	NCLSLT
NBB056_6-50	50	6	6	52861.8	52861.8	0.07%	0.60	0.19	0.80	21.31	20	4	22.11	NCLSLT
NBB066_6-50	50	6	6	52071.5	52071.5	0.07%	0.88	0.17	1.05	38.85	20	4	39.90	NCLSLT
NBB076_6-50	50	6	6	54053.0	54053.0	0.05%	0.57	0.12	0.70	4.07	15	3	4.77	NCLSLT
NBB086_6-50	50	6	6	50947.9	50947.9	0.00%	0.96	0.12	1.08	36.28	20	4	37.36	NCLSLT
NBB096_6-50	50	6	6	50716.3	50716.3	0.01%	0.51	0.12	0.63	10.33	20	4	10.97	NCLSLT
NBB0012_6-50	50	6	12	102544.9	102544.9	0.01%	1.38	0.21	1.60	78.02	57	10	79.63	NCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0112_6-50	50	6	12	101598.5	101598.5	0.02%	1.30	0.14	1.45	36.71	17	3	38.17	NCLSLT
NBB0212_6-50	50	6	12	105230.1	105230.1	0.07%	1.84	0.22	2.06	133.64	29	5	135.71	NCLSLT
NBB0312_6-50	50	6	12	102720.7	102720.7	0.10%	1.45	0.23	1.68	61.43	34	6	63.12	NCLSLT
NBB0412_6-50	50	6	12	109863.2	109863.2	0.07%	1.61	0.67	2.29	92.88	23	4	95.17	NCLSLT
NBB0512_6-50	50	6	12	105497.1	105497.1	0.06%	1.51	0.32	1.83	54.09	23	4	55.93	NCLSLT
NBB0612_6-50	50	6	12	102225.1	102225.1	0.11%	2.15	0.19	2.35	73.03	17	3	75.39	NCLSLT
NBB0712_6-50	50	6	12	107631.5	107631.5	0.03%	1.59	0.19	1.79	69.40	23	4	71.20	NCLSLT
NBB0812_6-50	50	6	12	100000.8	100000.8	0.05%	1.57	0.19	1.76	63.33	34	6	65.10	NCLSLT
NBB0912_6-50	50	6	12	102429.8	102429.8	0.04%	1.48	0.25	1.74	93.52	52	9	95.27	NCLSLT
NBB0018_6-50	50	6	18	152971.7	152971.7	0.06%	3.06	0.54	3.61	95.35	22	3	98.96	NCLSLT
NBB0118_6-50	50	6	18	151114.1	151114.1	0.04%	3.17	0.53	3.71	72.58	22	3	76.30	NCLSLT
NBB0218_6-50	50	6	18	154651.8	154651.8	0.07%	3.10	0.46	3.57	291.88	52	7	295.46	NCLSLT
NBB0318_6-50	50	6	18	154349.3	154349.3	0.03%	2.69	0.27	2.97	80.12	30	4	83.10	NCLSLT
NBB0418_6-50	50	6	18	164991.6	164991.6	0.07%	3.40	0.81	4.23	173.53	30	4	177.76	NCLSLT
NBB0518_6-50	50	6	18	155588.7	155588.7	0.10%	3.39	0.59	3.98	170.39	30	4	174.38	NCLSLT
NBB0618_6-50	50	6	18	154558.6	154558.6	0.12%	4.74	0.45	5.21	281.99	38	5	287.21	NCLSLT
NBB0718_6-50	50	6	18	159216.7	159216.7	0.04%	3.29	0.28	3.58	99.79	22	3	103.38	NCLSLT
NBB0818_6-50	50	6	18	151178.7	151178.7	0.05%	2.70	0.38	3.10	85.91	30	4	89.02	NCLSLT
NBB0918_6-50	50	6	18	154285.6	154285.6	0.02%	2.64	0.31	2.97	101.60	30	4	104.57	NCLSLT
AAA006_2-6	6	2	6	14678.8	14678.8	3.69%	0.12	0.02	0.14	0.35	15	3	0.50	TCHSHT
AAA016_2-6	6	2	6	11728.3	11728.3	0.99%	0.15	0.02	0.17	0.40	15	3	0.57	TCHSHT
AAA026_2-6	6	2	6	14956.5	14956.5	0.00%	0.09	0.02	0.12	0.49	20	4	0.61	TCHSHT
AAA036_2-6	6	2	6	4986378788.7	4986378788.7	100.00%	0.12	0.02	0.14	0.14	10	2	0.28	TCHSHT
AAA046_2-6	6	2	6	18301.2	18301.2	5.22%	0.16	0.04	0.20	0.44	10	2	0.64	TCHSHT
AAA056_2-6	6	2	6	17465.7	17465.7	2.76%	0.09	0.02	0.11	0.25	10	2	0.37	TCHSHT
AAA066_2-6	6	2	6	17374.1	17374.1	3.36%	0.12	0.02	0.14	0.49	15	3	0.63	TCHSHT
AAA076_2-6	6	2	6	17454.2	17454.2	1.00%	0.10	0.02	0.12	0.25	15	3	0.37	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%	0.09	0.02	0.11	0.14	10	2	0.26	TCHSHT
AAA096_2-6	6	2	6	13527.3	13527.3	2.79%	0.08	0.02	0.11	0.26	20	4	0.37	TCHSHT
AAA0012_2-6	6	2	12	25083.0	25083.0	2.08%	0.18	0.03	0.21	2.17	40	7	2.38	TCHSHT
AAA0112_2-6	6	2	12	25598.1	25598.1	5.26%	0.26	0.03	0.30	7.88	57	10	8.18	TCHSHT
AAA0212_2-6	6	2	12	27826.4	27826.4	1.27%	0.21	0.04	0.25	0.85	29	5	1.10	TCHSHT
AAA0412_2-6	6	2	12	28981.9	28981.9	1.45%	0.31	0.04	0.36	3.26	29	5	3.62	TCHSHT
AAA0512_2-6	6	2	12	32093.2	32093.2	1.30%	0.20	0.05	0.25	8.89	92	16	9.14	TCHSHT
AAA0612_2-6	6	2	12	29350.9	29350.9	1.72%	0.21	0.05	0.26	3.03	52	9	3.29	TCHSHT
AAA0712_2-6	6	2	12	27478.3	27478.3	0.10%	0.27	0.05	0.32	1.28	34	6	1.60	TCHSHT
AAA0812_2-6	6	2	12	22716.8	22716.8	0.98%	0.16	0.05	0.21	1.54	40	7	1.75	TCHSHT
AAA0912_2-6	6	2	12	28834.1	28834.1	3.73%	0.22	0.05	0.27	4.61	51	9	4.89	TCHSHT
AAA0018_2-6	6	2	18	34218.7	34218.7	1.74%	0.47	0.06	0.53	6.66	52	7	7.20	TCHSHT
AAA0118_2-6	6	2	18	34991.7	34991.7	2.30%	0.35	0.05	0.40	7.70	52	7	8.11	TCHSHT
AAA0218_2-6	6	2	18	40354.8	40354.8	1.65%	0.32	0.07	0.39	2.97	46	6	3.36	TCHSHT
AAA0418_2-6	6	2	18	37662.3	37662.3	1.19%	0.47	0.05	0.53	7.72	74	10	8.25	TCHSHT
AAA0518_2-6	6	2	18	42863.4	42863.4	0.31%	0.31	0.10	0.41	3.78	46	6	4.20	TCHSHT
AAA0618_2-6	6	2	18	39635.0	39635.0	0.42%	0.37	0.07	0.44	5.14	60	8	5.58	TCHSHT
AAA0718_2-6	6	2	18	39886.7	39886.7	0.66%	0.42	0.08	0.50	4.76	52	7	5.26	TCHSHT
AAA0818_2-6	6	2	18	32116.3	32116.3	0.29%	0.26	0.04	0.30	4.63	90	12	4.94	TCHSHT
AAA0918_2-6	6	2	18	36505.8	36505.8	0.63%	0.26	0.10	0.36	4.75	44	6	5.12	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%	0.15	0.03	0.18	0.25	10	2	0.43	TCHSHT
AAA016_2-12	12	2	6	25835.3	25835.3	1.24%	0.19	0.02	0.22	0.75	15	3	0.97	TCHSHT
AAA026_2-12	12	2	6	27272.4	27272.4	1.28%	0.23	0.02	0.25	0.32	10	2	0.57	TCHSHT
AAA036_2-12	12	2	6	30375.5	30375.5	1.82%	0.14	0.03	0.18	1.21	20	4	1.39	TCHSHT
AAA046_2-12	12	2	6	26000.3	26000.3	0.30%	0.14	0.03	0.17	1.13	30	6	1.31	TCHSHT
AAA056_2-12	12	2	6	30315.9	30315.9	1.49%	0.20	0.03	0.22	0.90	15	3	1.12	TCHSHT
AAA066_2-12	12	2	6	26557.1	26557.1	1.42%	0.14	0.02	0.17	0.39	10	2	0.56	TCHSHT
AAA076_2-12	12	2	6	26431.8	26431.8	1.26%	0.12	0.03	0.15	0.66	20	4	0.81	TCHSHT
AAA086_2-12	12	2	6	24676.2	24676.2	0.38%	0.14	0.03	0.17	1.57	25	5	1.74	TCHSHT
AAA096_2-12	12	2	6	28321.8	28321.8	0.62%	0.16	0.03	0.19	1.19	20	4	1.38	TCHSHT
AAA0012_2-12	12	2	12	42254.6	42254.6	0.40%	0.28	0.03	0.31	8.49	57	10	8.79	TCHSHT
AAA0112_2-12	12	2	12	42340.2	42340.2	0.22%	0.30	0.04	0.34	4.29	34	6	4.63	TCHSHT
AAA0212_2-12	12	2	12	45106.8	45106.8	0.56%	0.38	0.07	0.45	9.84	45	8	10.29	TCHSHT
AAA0312_2-12	12	2	12	53786.9	53786.9	0.38%	0.33	0.05	0.38	17.16	74	13	17.54	TCHSHT
AAA0412_2-12	12	2	12	45567.9	45567.9	0.00%	0.30	0.09	0.39	3.89	51	9	4.29	TCHSHT
AAA0512_2-12	12	2	12	53709.4	53709.4	0.94%	0.47	0.06	0.53	17.77	81	14	18.30	TCHSHT
AAA0612_2-12	12	2	12	46673.6	46673.6	0.48%	0.32	0.08	0.40	7.10	34	6	7.50	TCHSHT
AAA0712_2-12	12	2	12	49726.1	49726.1	0.40%	0.28	0.04	0.32	2.33	17	3	2.65	TCHSHT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0812_2-12	12	2	12	42594.5	42594.5	1.09%	0.21	0.07	0.28	6.28	46	8	6.57	TCHSHT
AAA0912_2-12	12	2	12	52510.1	52510.1	1.37%	0.37	0.06	0.43	31.28	80	14	31.71	TCHSHT
AAA0118_2-12	12	2	18	63461.0	63461.0	0.98%	0.55	0.06	0.61	29.74	76	10	30.35	TCHSHT
AAA0218_2-12	12	2	18	66773.2	66773.2	1.08%	0.47	0.07	0.54	55.97	96	13	56.51	TCHSHT
AAA0318_2-12	12	2	18	76827.5	76827.5	1.24%	0.32	0.08	0.41	29.57	82	11	29.98	TCHSHT
AAA0418_2-12	12	2	18	68626.1	68626.1	0.98%	0.46	0.12	0.58	35.40	82	11	35.98	TCHSHT
AAA0518_2-12	12	2	18	74964.8	74964.8	0.76%	0.39	0.10	0.49	33.68	82	11	34.17	TCHSHT
AAA0618_2-12	12	2	18	67708.9	67708.9	0.90%	0.48	0.08	0.56	43.42	96	13	43.99	TCHSHT
AAA0718_2-12	12	2	18	68298.4	68298.4	0.04%	0.30	0.08	0.38	5.22	52	7	5.60	TCHSHT
AAA0818_2-12	12	2	18	65798.2	65798.2	0.19%	0.38	0.09	0.48	31.56	74	10	32.04	TCHSHT
AAA0918_2-12	12	2	18	74578.7	74578.7	1.08%	0.70	0.08	0.79	87.45	90	12	88.24	TCHSHT
AAA006_2-25	25	2	6	49579.1	49579.1	0.69%	0.26	0.04	0.30	1.66	15	3	1.96	TCHSHT
AAA016_2-25	25	2	6	50428.5	50428.5	0.95%	0.25	0.03	0.28	0.90	10	2	1.18	TCHSHT
AAA026_2-25	25	2	6	53905.9	53905.9	0.94%	0.28	0.04	0.32	3.91	15	3	4.24	TCHSHT
AAA036_2-25	25	2	6	55146.1	55146.1	0.51%	0.22	0.03	0.25	1.92	20	4	2.18	TCHSHT
AAA046_2-25	25	2	6	56247.0	56247.0	0.11%	0.24	0.02	0.26	0.78	10	2	1.04	TCHSHT
AAA056_2-25	25	2	6	59579.9	59579.9	1.32%	0.29	0.06	0.35	3.32	20	4	3.67	TCHSHT
AAA066_2-25	25	2	6	47786.3	47786.3	1.01%	0.23	0.03	0.26	0.52	10	2	0.79	TCHSHT
AAA076_2-25	25	2	6	53541.7	53541.7	0.44%	0.27	0.05	0.33	1.27	10	2	1.60	TCHSHT
AAA086_2-25	25	2	6	56941.6	56941.6	0.55%	0.26	0.05	0.31	1.62	10	2	1.93	TCHSHT
AAA096_2-25	25	2	6	62882.4	62882.4	0.41%	0.27	0.05	0.32	1.77	15	3	2.08	TCHSHT
AAA0012_2-25	25	2	12	90655.6	90655.6	0.34%	0.47	0.07	0.54	63.92	74	13	64.46	TCHSHT
AAA0112_2-25	25	2	12	96306.6	96306.6	0.51%	0.39	0.11	0.49	33.77	46	8	34.26	TCHSHT
AAA0212_2-25	25	2	12	93440.3	93440.3	0.86%	0.58	0.14	0.72	57.37	63	11	58.10	TCHSHT
AAA0312_2-25	25	2	12	96761.5	96761.5	0.49%	0.46	0.08	0.55	72.80	46	8	73.35	TCHSHT
AAA0412_2-25	25	2	12	96651.6	96651.6	0.96%	0.51	0.07	0.57	70.63	51	9	71.21	TCHSHT
AAA0512_2-25	25	2	12	109220.3	109220.3	0.93%	0.52	0.07	0.59	50.60	40	7	51.19	TCHSHT
AAA0612_2-25	25	2	12	92315.8	92315.8	0.32%	0.44	0.08	0.52	25.59	57	10	26.11	TCHSHT
AAA0712_2-25	25	2	12	97364.4	97364.4	0.49%	0.40	0.11	0.51	44.96	57	10	45.48	TCHSHT
AAA0812_2-25	25	2	12	101026.3	101026.3	0.55%	0.68	0.07	0.75	60.06	63	11	60.82	TCHSHT
AAA0912_2-25	25	2	12	106320.2	106320.2	0.69%	0.57	0.07	0.64	52.77	52	9	53.41	TCHSHT
AAA0018_2-25	25	2	18	130857.5	130857.5	0.34%	0.66	0.12	0.78	82.64	82	11	83.43	TCHSHT
AAA0118_2-25	25	2	18	134825.9	134825.9	0.58%	0.79	0.15	0.95	107.33	82	11	108.28	TCHSHT
AAA0218_2-25	25	2	18	132652.9	132652.9	0.61%	0.89	0.19	1.08	132.50	90	12	133.58	TCHSHT
AAA0318_2-25	25	2	18	144799.1	144799.1	0.31%	0.69	0.10	0.79	55.72	74	10	56.52	TCHSHT
AAA0418_2-25	25	2	18	139378.0	139378.0	0.53%	0.88	0.08	0.97	132.43	98	13	133.40	TCHSHT
AAA0518_2-25	25	2	18	151980.2	151980.2	0.64%	0.81	0.16	0.97	116.87	60	8	117.85	TCHSHT
AAA0618_2-25	25	2	18	128971.7	128971.7	0.00%	0.64	0.07	0.72	26.23	46	6	26.95	TCHSHT
AAA0718_2-25	25	2	18	144184.6	144184.6	0.78%	0.78	0.13	0.91	154.54	60	8	155.46	TCHSHT
AAA0818_2-25	25	2	18	141599.3	141599.3	0.49%	0.76	0.14	0.90	119.21	62	8	120.11	TCHSHT
AAA0918_2-25	25	2	18	153501.0	153501.0	1.22%	1.00	0.11	1.11	154.50	52	7	155.61	TCHSHT
AAA006_2-50	50	2	6	97169.9	97169.9	0.10%	0.39	0.09	0.48	1.96	10	2	2.44	TCHSHT
AAA016_2-50	50	2	6	100449.8	100449.8	0.14%	0.40	0.04	0.44	1.58	15	3	2.03	TCHSHT
AAA026_2-50	50	2	6	98867.1	98867.1	0.28%	0.42	0.06	0.48	6.42	15	3	6.91	TCHSHT
AAA036_2-50	50	2	6	106336.6	106336.6	0.21%	0.44	0.05	0.50	10.14	20	4	10.63	TCHSHT
AAA046_2-50	50	2	6	113026.7	113026.7	0.39%	0.44	0.06	0.50	14.95	15	3	15.45	TCHSHT
AAA056_2-50	50	2	6	110329.6	110329.6	0.18%	0.47	0.05	0.52	15.36	15	3	15.89	TCHSHT
AAA066_2-50	50	2	6	99255.0	99255.0	0.27%	0.44	0.07	0.50	2.73	10	2	3.23	TCHSHT
AAA076_2-50	50	2	6	106540.2	106540.2	0.28%	0.51	0.07	0.59	18.97	15	3	19.56	TCHSHT
AAA086_2-50	50	2	6	103199.6	103199.6	0.31%	0.48	0.07	0.55	9.06	20	4	9.61	TCHSHT
AAA096_2-50	50	2	6	107963.7	107963.7	0.08%	0.42	0.05	0.47	2.14	10	2	2.62	TCHSHT
AAA0012_2-50	50	2	12	180044.4	180044.4	0.11%	0.68	0.16	0.84	54.71	63	11	55.56	TCHSHT
AAA0112_2-50	50	2	12	186755.1	186755.1	0.07%	0.87	0.12	0.98	65.72	80	14	66.71	TCHSHT
AAA0212_2-50	50	2	12	181184.7	181184.7	0.19%	0.69	0.18	0.87	74.89	57	10	75.76	TCHSHT
AAA0312_2-50	50	2	12	192738.7	192738.7	0.13%	0.67	0.12	0.80	64.86	57	10	65.66	TCHSHT
AAA0412_2-50	50	2	12	201261.5	201261.5	0.41%	1.03	0.10	1.14	106.53	40	7	107.67	TCHSHT
AAA0512_2-50	50	2	12	197987.1	197987.1	0.17%	1.01	0.10	1.12	92.32	57	10	93.44	TCHSHT
AAA0612_2-50	50	2	12	177325.8	177325.8	0.08%	0.79	0.15	0.94	13.46	34	6	14.41	TCHSHT
AAA0712_2-50	50	2	12	190944.6	190944.6	0.46%	1.05	0.15	1.20	110.61	35	6	111.82	TCHSHT
AAA0812_2-50	50	2	12	183302.8	183302.8	0.16%	0.71	0.14	0.85	60.62	34	6	61.47	TCHSHT
AAA0912_2-50	50	2	12	195701.4	195701.4	0.41%	0.92	0.12	1.05	93.05	35	6	94.10	TCHSHT
AAA0018_2-50	50	2	18	261883.9	261883.9	0.03%	1.17	0.18	1.35	37.30	46	6	38.65	TCHSHT
AAA0118_2-50	50	2	18	270334.5	270334.5	0.13%	1.06	0.20	1.27	97.84	52	7	99.12	TCHSHT
AAA0218_2-50	50	2	18	261158.6	261158.6	0.20%	1.16	0.21	1.37	131.70	74	10	133.07	TCHSHT
AAA0318_2-50	50	2	18	282422.6	282422.6	0.15%	1.23	0.29	1.52	94.66	52	7	96.18	TCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0418_2-50	50	2	18	292757.2	292757.2	0.36%	1.66	0.34	2.00	202.70	46	6	204.70	TCHSHT
AAA0518_2-50	50	2	18	287877.9	287877.9	0.20%	1.11	0.15	1.26	149.18	60	8	150.44	TCHSHT
AAA0618_2-50	50	2	18	259556.0	259556.0	0.15%	1.45	0.15	1.60	121.71	60	8	123.32	TCHSHT
AAA0718_2-50	50	2	18	274259.1	274259.1	0.25%	1.23	0.23	1.46	80.69	30	4	82.15	TCHSHT
AAA0818_2-50	50	2	18	265850.9	265850.9	0.14%	1.26	0.13	1.39	171.22	90	12	172.62	TCHSHT
AAA0918_2-50	50	2	18	284053.4	284053.4	0.21%	1.62	0.23	1.85	275.73	82	11	277.59	TCHSHT
AAA006_4-6	6	4	6	9863.8	9863.8	2.28%	0.11	0.04	0.16	0.36	10	2	0.52	TCHSHT
AAA016_4-6	6	4	6	12516.4	12516.4	2.05%	0.15	0.06	0.21	1.36	20	4	1.57	TCHSHT
AAA026_4-6	6	4	6	12294.8	12294.8	1.84%	0.16	0.04	0.20	0.41	15	3	0.60	TCHSHT
AAA036_4-6	6	4	6	13094.9	13094.9	3.66%	0.13	0.03	0.16	0.33	10	2	0.48	TCHSHT
AAA046_4-6	6	4	6	11050.2	11050.2	3.26%	0.15	0.05	0.20	0.68	20	4	0.88	TCHSHT
AAA056_4-6	6	4	6	16144.0	16144.0	4.69%	0.13	0.07	0.20	0.30	10	2	0.50	TCHSHT
AAA066_4-6	6	4	6	12598.7	12598.7	2.47%	0.17	0.04	0.21	0.47	15	3	0.68	TCHSHT
AAA076_4-6	6	4	6	13765.9	13765.9	0.00%	0.10	0.05	0.15	0.23	15	3	0.39	TCHSHT
AAA086_4-6	6	4	6	10252.7	10252.7	3.06%	0.13	0.05	0.17	0.24	15	3	0.42	TCHSHT
AAA096_4-6	6	4	6	14770.1	14770.1	0.00%	0.13	0.04	0.18	0.19	10	2	0.37	TCHSHT
AAA0012_4-6	6	4	12	17824.5	17824.5	0.00%	0.26	0.09	0.36	2.53	46	8	2.89	TCHSHT
AAA0112_4-6	6	4	12	25425.8	25425.8	0.93%	0.40	0.09	0.49	14.08	63	11	14.58	TCHSHT
AAA0212_4-6	6	4	12	23264.0	23264.0	0.92%	0.37	0.09	0.46	7.49	52	9	7.95	TCHSHT
AAA0312_4-6	6	4	12	25570.3	25570.3	0.06%	0.24	0.09	0.33	0.87	23	4	1.20	TCHSHT
AAA0412_4-6	6	4	12	24008.2	24008.2	2.26%	0.26	0.07	0.34	6.17	45	8	6.51	TCHSHT
AAA0512_4-6	6	4	12	30398.0	30398.0	0.47%	0.27	0.10	0.37	4.53	57	10	4.90	TCHSHT
AAA0612_4-6	6	4	12	21834.0	21834.0	1.23%	0.26	0.08	0.34	1.09	23	4	1.43	TCHSHT
AAA0712_4-6	6	4	12	24523.7	24523.7	0.29%	0.21	0.10	0.31	3.95	40	7	4.27	TCHSHT
AAA0812_4-6	6	4	12	21130.5	21130.5	0.00%	0.24	0.08	0.32	2.66	29	5	2.98	TCHSHT
AAA0912_4-6	6	4	12	26272.0	26272.0	1.05%	0.31	0.09	0.40	1.77	46	8	2.17	TCHSHT
AAA0018_4-6	6	4	18	27419.8	27419.8	0.16%	0.53	0.14	0.68	6.16	60	8	6.85	TCHSHT
AAA0118_4-6	6	4	18	33350.9	33350.9	0.09%	0.67	0.17	0.84	6.00	38	5	6.84	TCHSHT
AAA0218_4-6	6	4	18	33245.2	33245.2	0.21%	0.55	0.17	0.72	19.00	126	17	19.72	TCHSHT
AAA0318_4-6	6	4	18	39015.0	39015.0	0.23%	0.95	0.10	1.06	11.53	82	11	12.59	TCHSHT
AAA0418_4-6	6	4	18	35238.0	35238.0	1.32%	0.65	0.14	0.79	23.23	74	10	24.02	TCHSHT
AAA0518_4-6	6	4	18	43016.3	43016.3	0.51%	0.47	0.18	0.66	5.45	60	8	6.11	TCHSHT
AAA0618_4-6	6	4	18	33334.2	33334.2	0.00%	0.54	0.20	0.74	2.20	30	4	2.94	TCHSHT
AAA0718_4-6	6	4	18	37274.6	37274.6	0.94%	0.36	0.14	0.50	15.62	82	11	16.13	TCHSHT
AAA0818_4-6	6	4	18	28213.7	28213.7	0.99%	0.43	0.13	0.55	3.36	44	6	3.91	TCHSHT
AAA0918_4-6	6	4	18	38459.0	38459.0	0.55%	0.56	0.14	0.70	6.35	60	8	7.05	TCHSHT
AAA006_4-12	12	4	6	20488.7	20488.7	0.29%	0.18	0.04	0.22	1.35	20	4	1.57	TCHSHT
AAA016_4-12	12	4	6	23762.3	23762.3	0.01%	0.28	0.06	0.34	6.15	20	4	6.49	TCHSHT
AAA026_4-12	12	4	6	19095.7	19095.7	1.45%	0.17	0.07	0.24	0.87	15	3	1.12	TCHSHT
AAA036_4-12	12	4	6	20834.3	20834.3	0.54%	0.21	0.06	0.27	2.62	25	5	2.89	TCHSHT
AAA046_4-12	12	4	6	23275.8	23275.8	0.95%	0.21	0.05	0.26	0.55	10	2	0.82	TCHSHT
AAA056_4-12	12	4	6	24486.3	24486.3	1.30%	0.24	0.09	0.33	1.31	15	3	1.64	TCHSHT
AAA066_4-12	12	4	6	21569.3	21569.3	1.76%	0.22	0.06	0.29	0.70	15	3	0.98	TCHSHT
AAA076_4-12	12	4	6	21684.3	21684.3	1.09%	0.23	0.09	0.32	3.03	20	4	3.35	TCHSHT
AAA086_4-12	12	4	6	22927.2	22927.2	1.09%	0.17	0.05	0.22	1.30	15	3	1.52	TCHSHT
AAA096_4-12	12	4	6	22406.1	22406.1	1.25%	0.22	0.05	0.27	1.44	15	3	1.71	TCHSHT
AAA0012_4-12	12	4	12	36608.0	36608.0	0.07%	0.41	0.07	0.48	39.43	86	15	39.91	TCHSHT
AAA0112_4-12	12	4	12	41827.0	41827.0	1.07%	0.60	0.14	0.74	63.10	58	10	63.84	TCHSHT
AAA0212_4-12	12	4	12	37524.8	37524.8	0.37%	0.37	0.14	0.50	12.24	63	11	12.75	TCHSHT
AAA0312_4-12	12	4	12	41025.9	41025.9	0.69%	0.38	0.15	0.53	34.28	74	13	34.81	TCHSHT
AAA0412_4-12	12	4	12	42958.9	42958.9	1.04%	0.61	0.12	0.74	16.84	75	13	17.58	TCHSHT
AAA0512_4-12	12	4	12	46611.4	46611.4	1.99%	0.45	0.09	0.54	53.72	86	15	54.26	TCHSHT
AAA0612_4-12	12	4	12	40095.2	40095.2	0.20%	0.34	0.08	0.42	10.71	45	8	11.14	TCHSHT
AAA0712_4-12	12	4	12	43245.2	43245.2	1.40%	0.50	0.15	0.65	66.25	58	10	66.90	TCHSHT
AAA0812_4-12	12	4	12	41907.1	41907.1	0.20%	0.30	0.05	0.35	4.50	34	6	4.85	TCHSHT
AAA0912_4-12	12	4	12	45355.7	45355.7	1.53%	0.43	0.17	0.60	50.25	52	9	50.85	TCHSHT
AAA0018_4-12	12	4	18	54733.2	54733.2	0.56%	0.55	0.22	0.77	41.13	82	11	41.90	TCHSHT
AAA0118_4-12	12	4	18	61235.1	61235.1	1.31%	0.91	0.50	1.42	109.11	90	12	110.53	TCHSHT
AAA0218_4-12	12	4	18	53991.8	53991.8	0.35%	0.41	0.20	0.61	15.31	82	11	15.92	TCHSHT
AAA0318_4-12	12	4	18	62831.1	62831.1	1.51%	0.93	0.15	1.08	50.42	68	9	51.50	TCHSHT
AAA0418_4-12	12	4	18	63590.6	63590.6	1.44%	0.71	0.22	0.93	54.96	46	6	55.88	TCHSHT
AAA0518_4-12	12	4	18	67392.2	67392.2	1.65%	0.61	0.21	0.82	56.70	74	10	57.53	TCHSHT
AAA0618_4-12	12	4	18	59502.6	59502.6	0.32%	0.67	0.16	0.84	14.42	60	8	15.25	TCHSHT
AAA0718_4-12	12	4	18	66139.8	66139.8	1.21%	0.80	0.31	1.10	103.03	62	8	104.14	TCHSHT
AAA0818_4-12	12	4	18	63645.7	63645.7	0.33%	0.47	0.17	0.65	62.63	98	13	63.28	TCHSHT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0918_4-12	12	4	18	64170.1	64170.1	1.24%	0.71	0.26	0.97	27.86	90	12	28.83	TCHSHT
AAA006_4-25	25	4	6	37911.5	37911.5	0.51%	0.53	0.14	0.67	7.76	15	3	8.43	TCHSHT
AAA016_4-25	25	4	6	46413.9	46413.9	0.59%	0.45	0.06	0.51	3.84	15	3	4.35	TCHSHT
AAA026_4-25	25	4	6	44268.7	44268.7	1.74%	0.42	0.08	0.50	18.68	15	3	19.18	TCHSHT
AAA036_4-25	25	4	6	43464.7	43464.7	0.66%	0.36	0.09	0.45	12.58	20	4	13.02	TCHSHT
AAA046_4-25	25	4	6	44887.8	44887.8	1.51%	0.39	0.14	0.53	19.45	15	3	19.98	TCHSHT
AAA056_4-25	25	4	6	48261.0	48261.0	0.56%	0.38	0.07	0.44	7.87	15	3	8.32	TCHSHT
AAA066_4-25	25	4	6	38986.4	38986.4	1.71%	0.25	0.05	0.30	3.21	15	3	3.51	TCHSHT
AAA076_4-25	25	4	6	43882.2	43882.2	0.47%	0.38	0.09	0.47	14.38	15	3	14.85	TCHSHT
AAA086_4-25	25	4	6	40617.7	40617.7	0.44%	0.40	0.10	0.50	8.89	10	2	9.39	TCHSHT
AAA096_4-25	25	4	6	46431.3	46431.3	0.27%	0.36	0.11	0.47	8.00	15	3	8.47	TCHSHT
AAA0012_4-25	25	4	12	75573.1	75573.1	0.49%	0.65	0.18	0.83	35.51	40	7	36.33	TCHSHT
AAA012_4-25	25	4	12	84282.5	84282.5	1.10%	0.85	0.16	1.01	112.58	40	7	113.59	TCHSHT
AAA0212_4-25	25	4	12	80007.2	80007.2	1.17%	0.79	0.21	1.00	200.48	57	10	201.48	TCHSHT
AAA0312_4-25	25	4	12	84369.3	84369.3	0.96%	0.87	0.39	1.26	60.06	29	5	61.33	TCHSHT
AAA0412_4-25	25	4	12	85127.8	85127.8	1.22%	0.58	0.26	0.84	64.12	35	6	64.96	TCHSHT
AAA0512_4-25	25	4	12	87797.0	87797.0	0.60%	0.53	0.19	0.72	75.92	46	8	76.64	TCHSHT
AAA0612_4-25	25	4	12	74498.8	74498.8	0.41%	0.56	0.17	0.74	50.66	69	12	51.40	TCHSHT
AAA0712_4-25	25	4	12	84407.3	84407.3	0.61%	0.76	0.25	1.01	85.02	63	11	86.03	TCHSHT
AAA0812_4-25	25	4	12	79337.7	79337.7	0.77%	0.85	0.14	0.99	104.63	57	10	105.62	TCHSHT
AAA0912_4-25	25	4	12	84929.6	84929.6	0.04%	0.80	0.37	1.17	23.92	51	9	25.09	TCHSHT
AAA0018_4-25	25	4	18	109766.9	109766.9	0.54%	1.51	0.29	1.80	177.43	98	13	179.24	TCHSHT
AAA0118_4-25	25	4	18	122593.0	122593.0	1.19%	1.40	0.37	1.77	114.96	38	5	116.73	TCHSHT
AAA0218_4-25	25	4	18	118427.4	118427.4	1.09%	1.33	0.86	2.20	246.36	74	10	248.56	TCHSHT
AAA0318_4-25	25	4	18	122736.7	122736.7	0.84%	1.32	0.36	1.69	149.97	76	10	151.66	TCHSHT
AAA0418_4-25	25	4	18	124833.9	124833.9	0.61%	1.01	0.33	1.34	171.89	98	13	173.24	TCHSHT
AAA0518_4-25	25	4	18	127074.2	127074.2	0.71%	1.39	0.35	1.75	154.69	82	11	156.44	TCHSHT
AAA0618_4-25	25	4	18	111068.8	111068.8	0.24%	0.90	0.33	1.23	123.86	90	12	125.09	TCHSHT
AAA0718_4-25	25	4	18	122972.7	122972.7	0.39%	1.25	0.34	1.60	76.86	60	8	78.46	TCHSHT
AAA0818_4-25	25	4	18	113176.6	113176.6	0.48%	1.10	0.24	1.35	126.91	68	9	128.25	TCHSHT
AAA0918_4-25	25	4	18	124954.4	124954.4	0.24%	0.89	0.38	1.28	98.95	82	11	100.23	TCHSHT
AAA006_4-50	50	4	6	81839.6	81839.6	0.19%	0.60	0.12	0.72	27.29	25	5	28.02	TCHSHT
AAA016_4-50	50	4	6	85024.5	85024.5	0.20%	0.89	0.19	1.08	16.11	20	4	17.20	TCHSHT
AAA026_4-50	50	4	6	87325.9	87325.9	0.32%	0.64	0.17	0.82	38.61	15	3	39.43	TCHSHT
AAA036_4-50	50	4	6	88273.8	88273.8	0.37%	0.62	0.12	0.74	19.17	20	4	19.91	TCHSHT
AAA046_4-50	50	4	6	94634.1	94634.1	0.35%	0.65	0.13	0.78	26.70	20	4	27.48	TCHSHT
AAA056_4-50	50	4	6	89653.5	89653.5	0.25%	0.68	0.12	0.80	17.63	15	3	18.43	TCHSHT
AAA066_4-50	50	4	6	80097.4	80097.4	0.26%	0.50	0.14	0.64	13.24	20	4	13.89	TCHSHT
AAA076_4-50	50	4	6	83905.6	83905.6	0.35%	0.66	0.17	0.83	20.53	20	4	21.36	TCHSHT
AAA086_4-50	50	4	6	83998.0	83998.0	0.25%	0.77	0.19	0.96	32.19	20	4	33.15	TCHSHT
AAA096_4-50	50	4	6	94895.2	94895.2	0.21%	0.67	0.13	0.80	26.57	15	3	27.37	TCHSHT
AAA0012_4-50	50	4	12	160187.0	160187.0	0.28%	1.05	0.26	1.31	153.15	63	11	154.46	TCHSHT
AAA0112_4-50	50	4	12	157877.4	157877.4	0.30%	1.02	0.35	1.38	111.21	57	10	112.59	TCHSHT
AAA0212_4-50	50	4	12	159376.3	159376.3	0.40%	1.48	0.33	1.82	161.74	63	11	163.56	TCHSHT
AAA0312_4-50	50	4	12	166776.9	166776.9	0.28%	1.01	0.40	1.42	147.47	69	12	148.90	TCHSHT
AAA0412_4-50	50	4	12	171653.2	171653.2	0.39%	1.23	0.32	1.56	150.47	52	9	152.03	TCHSHT
AAA0512_4-50	50	4	12	165407.7	165407.7	0.27%	1.46	0.36	1.83	131.45	69	12	133.27	TCHSHT
AAA0612_4-50	50	4	12	150546.2	150546.2	0.09%	0.94	0.20	1.14	84.16	69	12	85.31	TCHSHT
AAA0712_4-50	50	4	12	162915.1	162915.1	0.54%	1.07	0.58	1.66	147.00	47	8	148.66	TCHSHT
AAA0812_4-50	50	4	12	157654.2	157654.2	0.31%	1.19	0.40	1.60	158.82	74	13	160.43	TCHSHT
AAA0912_4-50	50	4	12	172796.3	172796.3	0.14%	0.87	0.13	1.00	94.51	57	10	95.51	TCHSHT
AAA0018_4-50	50	4	18	228635.2	228635.2	0.19%	1.91	0.50	2.42	192.59	106	14	195.02	TCHSHT
AAA0118_4-50	50	4	18	233040.9	233040.9	0.31%	2.03	0.91	2.94	222.55	90	12	225.50	TCHSHT
AAA0218_4-50	50	4	18	238918.6	238918.6	0.39%	1.84	0.55	2.40	166.31	46	6	168.71	TCHSHT
AAA0318_4-50	50	4	18	243849.9	243849.9	0.28%	2.01	0.66	2.68	165.50	68	9	168.18	TCHSHT
AAA0418_4-50	50	4	18	254073.3	254073.3	0.39%	1.97	0.97	2.95	325.17	90	12	328.12	TCHSHT
AAA0518_4-50	50	4	18	244858.1	244858.1	0.33%	1.93	0.66	2.60	219.36	98	13	221.97	TCHSHT
AAA0618_4-50	50	4	18	224319.2	224319.2	0.11%	1.59	0.26	1.85	130.57	112	15	132.43	TCHSHT
AAA0718_4-50	50	4	18	241609.2	241609.2	0.37%	2.11	0.56	2.67	399.08	108	14	401.75	TCHSHT
AAA0818_4-50	50	4	18	228259.6	228259.6	0.21%	1.58	0.47	2.06	175.39	82	11	177.46	TCHSHT
AAA0918_4-50	50	4	18	252095.7	252095.7	0.19%	1.69	0.40	2.10	166.80	82	11	168.91	TCHSHT
AAA006_6-6	6	6	6	9908.8	9908.8	3.09%	0.16	0.04	0.20	0.89	20	4	1.09	TCHSHT
AAA016_6-6	6	6	6	13447.9	13447.9	2.41%	0.23	0.15	0.38	1.37	15	3	1.76	TCHSHT
AAA026_6-6	6	6	6	12213.0	12213.0	0.00%	0.18	0.14	0.32	0.39	15	3	0.70	TCHSHT
AAA036_6-6	6	6	6	14200.9	14200.9	2.03%	0.16	0.07	0.23	0.61	20	4	0.84	TCHSHT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA046_6-6	6	6	6	14312.3	14312.3	1.80%	0.19	0.08	0.27	0.52	15	3	0.79	TCHSHT
AAA056_6-6	6	6	6	16610.3	16610.3	1.40%	0.18	0.06	0.24	0.69	15	3	0.93	TCHSHT
AAA066_6-6	6	6	6	11782.4	11782.4	1.72%	0.12	0.04	0.17	0.74	15	3	0.91	TCHSHT
AAA076_6-6	6	6	6	15493.1	15493.1	0.93%	0.17	0.08	0.25	0.57	15	3	0.82	TCHSHT
AAA086_6-6	6	6	6	14880.1	14880.1	1.98%	0.18	0.15	0.33	0.50	10	2	0.83	TCHSHT
AAA096_6-6	6	6	6	16396.4	16396.4	2.90%	0.19	0.06	0.25	0.59	15	3	0.85	TCHSHT
AAA0012_6-6	6	6	12	19896.3	19896.3	0.18%	0.44	0.15	0.60	7.97	68	12	8.57	TCHSHT
AAA0112_6-6	6	6	12	24370.7	24370.7	0.58%	0.46	0.52	0.98	3.69	40	7	4.67	TCHSHT
AAA0212_6-6	6	6	12	24099.4	24099.4	0.08%	0.41	0.22	0.63	2.25	34	6	2.89	TCHSHT
AAA0312_6-6	6	6	12	27644.8	27644.8	1.50%	0.44	0.21	0.65	6.30	57	10	6.95	TCHSHT
AAA0412_6-6	6	6	12	26916.2	26916.2	0.14%	0.51	0.25	0.76	3.23	46	8	4.00	TCHSHT
AAA0512_6-6	6	6	12	28936.6	28936.6	1.26%	0.33	0.14	0.47	3.97	40	7	4.44	TCHSHT
AAA0612_6-6	6	6	12	22973.4	22973.4	0.56%	0.43	0.11	0.55	2.17	29	5	2.72	TCHSHT
AAA0712_6-6	6	6	12	29094.8	29094.8	1.32%	0.37	0.19	0.56	7.27	51	9	7.83	TCHSHT
AAA0812_6-6	6	6	12	26813.9	26813.9	0.85%	0.48	0.25	0.73	8.15	68	12	8.88	TCHSHT
AAA0912_6-6	6	6	12	30534.1	30534.1	1.61%	0.45	0.19	0.65	6.38	51	9	7.03	TCHSHT
AAA0018_6-6	6	6	18	29270.1	29270.1	0.69%	1.17	0.21	1.39	11.67	52	7	13.06	TCHSHT
AAA0218_6-6	6	6	18	32654.9	32654.9	0.00%	0.86	0.35	1.21	5.40	52	7	6.61	TCHSHT
AAA0318_6-6	6	6	18	38436.4	38436.4	0.92%	0.83	0.44	1.27	6.57	52	7	7.85	TCHSHT
AAA0418_6-6	6	6	18	39196.5	39196.5	0.19%	1.30	0.71	2.01	10.92	60	8	12.94	TCHSHT
AAA0518_6-6	6	6	18	44152.3	44152.3	0.98%	0.85	0.29	1.13	16.41	46	6	17.55	TCHSHT
AAA0618_6-6	6	6	18	33616.9	33616.9	0.06%	0.57	0.24	0.81	7.82	52	7	8.63	TCHSHT
AAA0718_6-6	6	6	18	42215.6	42215.6	0.67%	0.72	0.24	0.97	6.71	46	6	7.68	TCHSHT
AAA0818_6-6	6	6	18	43199.3	43199.3	1.82%	1.15	0.49	1.64	13.76	52	7	15.41	TCHSHT
AAA0918_6-6	6	6	18	46310.7	46310.7	0.90%	0.97	0.45	1.42	46.77	106	14	48.20	TCHSHT
AAA006_6-12	12	6	6	20979.6	20979.6	1.92%	0.25	0.08	0.34	1.51	15	3	1.85	TCHSHT
AAA016_6-12	12	6	6	20892.8	20892.8	0.21%	0.29	0.14	0.43	3.91	20	4	4.34	TCHSHT
AAA026_6-12	12	6	6	19945.0	19945.0	1.95%	0.26	0.08	0.34	3.65	25	5	3.99	TCHSHT
AAA036_6-12	12	6	6	20608.1	20608.1	0.33%	0.23	0.07	0.30	1.19	15	3	1.49	TCHSHT
AAA046_6-12	12	6	6	19060.4	19060.4	1.25%	0.28	0.16	0.45	0.49	15	3	0.94	TCHSHT
AAA056_6-12	12	6	6	20393.1	20393.1	0.89%	0.21	0.07	0.28	1.04	20	4	1.33	TCHSHT
AAA066_6-12	12	6	6	18695.7	18695.7	1.95%	0.24	0.07	0.31	2.18	20	4	2.49	TCHSHT
AAA076_6-12	12	6	6	24176.8	24176.8	0.85%	0.33	0.08	0.41	7.12	20	4	7.54	TCHSHT
AAA086_6-12	12	6	6	21468.9	21468.9	2.46%	0.32	0.10	0.42	3.63	25	5	4.05	TCHSHT
AAA096_6-12	12	6	6	24232.4	24232.4	1.04%	0.29	0.18	0.47	1.57	20	4	2.04	TCHSHT
AAA0012_6-12	12	6	12	38287.4	38287.4	0.99%	0.59	0.19	0.78	11.62	46	8	12.39	TCHSHT
AAA0112_6-12	12	6	12	40274.7	40274.7	0.44%	0.62	0.34	0.97	5.46	34	6	6.43	TCHSHT
AAA0212_6-12	12	6	12	38294.9	38294.9	0.92%	0.68	0.34	1.02	57.21	63	11	58.23	TCHSHT
AAA0312_6-12	12	6	12	40716.7	40716.7	0.38%	0.59	0.54	1.13	10.77	52	9	11.90	TCHSHT
AAA0412_6-12	12	6	12	36613.5	36613.5	0.80%	0.75	0.27	1.02	20.09	46	8	21.11	TCHSHT
AAA0512_6-12	12	6	12	42223.2	42223.2	0.73%	0.70	0.22	0.93	20.62	46	8	21.55	TCHSHT
AAA0612_6-12	12	6	12	35254.5	35254.5	1.27%	0.47	0.18	0.65	6.03	40	7	6.68	TCHSHT
AAA0712_6-12	12	6	12	48131.7	48131.7	2.39%	0.69	0.36	1.05	84.68	46	8	85.73	TCHSHT
AAA0812_6-12	12	6	12	39361.6	39361.6	0.79%	0.65	0.36	1.01	15.38	57	10	16.39	TCHSHT
AAA0912_6-12	12	6	12	44224.3	44224.3	0.46%	0.59	0.35	0.95	12.81	57	10	13.76	TCHSHT
AAA0018_6-12	12	6	18	57165.9	57165.9	0.98%	1.07	0.57	1.64	42.58	82	11	44.23	TCHSHT
AAA0118_6-12	12	6	18	62392.7	62392.7	0.97%	1.47	0.55	2.03	30.28	52	7	32.30	TCHSHT
AAA0218_6-12	12	6	18	56157.0	56157.0	1.07%	1.12	0.96	2.09	29.72	60	8	31.82	TCHSHT
AAA0318_6-12	12	6	18	58437.3	58437.3	1.23%	0.94	0.99	1.93	68.51	60	8	70.45	TCHSHT
AAA0418_6-12	12	6	18	53054.2	53054.2	0.39%	0.93	0.60	1.53	18.90	52	7	20.44	TCHSHT
AAA0518_6-12	12	6	18	63191.0	63191.0	0.92%	0.90	0.36	1.27	31.17	98	13	32.44	TCHSHT
AAA0618_6-12	12	6	18	54965.5	54965.5	0.90%	0.99	0.30	1.29	32.61	74	10	33.91	TCHSHT
AAA0718_6-12	12	6	18	68919.5	68919.5	1.14%	1.37	0.84	2.21	132.25	88	12	134.47	TCHSHT
AAA0818_6-12	12	6	18	58751.3	58751.3	1.98%	1.33	0.63	1.96	119.69	90	12	121.66	TCHSHT
AAA0918_6-12	12	6	18	65990.9	65990.9	0.83%	1.05	0.87	1.93	34.11	60	8	36.04	TCHSHT
AAA006_6-25	25	6	6	40550.4	40550.4	1.95%	0.47	0.17	0.65	23.01	20	4	23.66	TCHSHT
AAA016_6-25	25	6	6	40157.2	40157.2	0.35%	0.44	0.20	0.64	13.75	20	4	14.39	TCHSHT
AAA026_6-25	25	6	6	42133.3	42133.3	0.68%	0.50	0.45	0.95	9.65	25	5	10.61	TCHSHT
AAA036_6-25	25	6	6	41028.2	41028.2	0.02%	0.54	0.27	0.81	3.71	15	3	4.52	TCHSHT
AAA046_6-25	25	6	6	43693.0	43693.0	1.34%	0.69	0.25	0.94	24.70	20	4	25.65	TCHSHT
AAA056_6-25	25	6	6	40705.5	40705.5	0.56%	0.40	0.09	0.49	17.74	20	4	18.23	TCHSHT
AAA066_6-25	25	6	6	39468.6	39468.6	0.58%	0.44	0.28	0.72	45.04	30	6	45.76	TCHSHT
AAA076_6-25	25	6	6	43462.7	43462.7	1.23%	0.47	0.15	0.62	17.15	25	5	17.77	TCHSHT
AAA086_6-25	25	6	6	41067.6	41067.6	0.37%	0.50	0.19	0.69	18.60	20	4	19.29	TCHSHT
AAA096_6-25	25	6	6	42808.9	42808.9	0.65%	0.48	0.11	0.59	11.74	30	6	12.33	TCHSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0012_6-25	25	6	12	77770.6	77770.6	1.34%	0.97	0.76	1.74	66.77	52	9	68.51	TCHSHT
AAA0112_6-25	25	6	12	80114.3	80114.3	1.12%	1.07	0.55	1.62	183.30	81	14	184.93	TCHSHT
AAA0212_6-25	25	6	12	80888.0	80888.0	1.18%	0.97	0.58	1.55	159.11	62	11	160.67	TCHSHT
AAA0312_6-25	25	6	12	78381.1	78381.1	1.02%	1.01	0.74	1.76	175.12	75	13	176.89	TCHSHT
AAA0412_6-25	25	6	12	81645.5	81645.5	0.98%	1.22	1.14	2.36	119.06	58	10	121.42	TCHSHT
AAA0512_6-25	25	6	12	77182.5	77182.5	0.67%	1.02	0.55	1.57	122.42	69	12	124.00	TCHSHT
AAA0612_6-25	25	6	12	74942.0	74942.0	0.91%	0.96	0.48	1.44	97.40	46	8	98.85	TCHSHT
AAA0712_6-25	25	6	12	78310.1	78310.1	0.36%	0.88	0.59	1.48	36.81	57	10	38.29	TCHSHT
AAA0812_6-25	25	6	12	75931.2	75931.2	0.78%	0.93	0.47	1.40	109.88	63	11	111.28	TCHSHT
AAA0912_6-25	25	6	12	82985.7	82985.7	0.82%	0.98	0.28	1.26	160.82	81	14	162.08	TCHSHT
AAA0018_6-25	25	6	18	112193.3	112193.3	0.77%	1.91	2.28	4.19	215.51	90	12	219.70	TCHSHT
AAA0118_6-25	25	6	18	118315.9	118315.9	0.91%	1.97	1.68	3.65	152.79	60	8	156.44	TCHSHT
AAA0218_6-25	25	6	18	120947.0	120947.0	0.73%	2.06	0.53	2.59	236.93	98	13	239.52	TCHSHT
AAA0318_6-25	25	6	18	118023.9	118023.9	1.27%	2.37	0.76	3.13	334.54	90	12	337.67	TCHSHT
AAA0418_6-25	25	6	18	121543.9	121543.9	0.93%	2.20	1.20	3.41	274.57	98	13	277.98	TCHSHT
AAA0518_6-25	25	6	18	118450.2	118450.2	0.80%	1.73	1.34	3.07	119.11	60	8	122.18	TCHSHT
AAA0618_6-25	25	6	18	109689.3	109689.3	0.83%	1.75	1.22	2.98	133.93	68	9	136.92	TCHSHT
AAA0718_6-25	25	6	18	115588.7	115588.7	0.59%	1.18	0.39	1.58	86.31	60	8	87.89	TCHSHT
AAA0818_6-25	25	6	18	110102.8	110102.8	1.34%	1.69	0.74	2.43	114.14	46	6	116.58	TCHSHT
AAA0918_6-25	25	6	18	123423.6	123423.6	1.07%	2.01	0.92	2.93	303.52	106	14	306.46	TCHSHT
AAA006_6-50	50	6	6	75095.7	75095.7	0.50%	0.77	0.38	1.16	74.11	25	5	75.27	TCHSHT
AAA016_6-50	50	6	6	77637.9	77637.9	0.58%	0.77	0.45	1.22	79.07	30	6	80.29	TCHSHT
AAA026_6-50	50	6	6	80398.8	80398.8	0.58%	0.80	0.96	1.76	42.15	20	4	43.91	TCHSHT
AAA036_6-50	50	6	6	78582.0	78582.0	0.33%	0.71	0.23	0.95	42.21	20	4	43.17	TCHSHT
AAA046_6-50	50	6	6	81384.4	81384.4	1.03%	1.01	0.91	1.92	48.16	20	4	50.08	TCHSHT
AAA056_6-50	50	6	6	81584.4	81584.4	0.40%	0.85	0.21	1.06	75.17	25	5	76.24	TCHSHT
AAA066_6-50	50	6	6	78367.8	78367.8	0.58%	0.85	0.30	1.15	65.45	25	5	66.61	TCHSHT
AAA076_6-50	50	6	6	82040.9	82040.9	0.45%	0.75	0.17	0.92	39.75	15	3	40.68	TCHSHT
AAA086_6-50	50	6	6	76860.5	76860.5	0.11%	0.74	0.26	1.01	38.21	25	5	39.21	TCHSHT
AAA096_6-50	50	6	6	78325.0	78325.0	0.77%	1.00	0.33	1.34	66.95	20	4	68.29	TCHSHT
AAA0012_6-50	50	6	12	145735.8	145735.8	0.23%	1.24	0.49	1.74	92.68	52	9	94.42	TCHSHT
AAA0112_6-50	50	6	12	148734.3	148734.3	0.32%	1.40	0.44	1.84	102.54	46	8	104.39	TCHSHT
AAA0212_6-50	50	6	12	153523.2	153523.2	0.54%	1.39	2.54	3.94	211.97	52	9	215.91	TCHSHT
AAA0312_6-50	50	6	12	152036.9	152036.9	0.45%	1.50	0.42	1.92	206.75	75	13	208.68	TCHSHT
AAA0412_6-50	50	6	12	158968.8	158968.8	0.53%	1.78	0.54	2.33	150.01	52	9	152.34	TCHSHT
AAA0512_6-50	50	6	12	156529.1	156529.1	0.79%	1.64	0.51	2.16	144.24	47	8	146.40	TCHSHT
AAA0612_6-50	50	6	12	147491.1	147491.1	0.57%	2.15	2.32	4.47	294.18	76	13	298.66	TCHSHT
AAA0712_6-50	50	6	12	156809.4	156809.4	0.29%	1.51	1.01	2.53	210.84	109	19	213.37	TCHSHT
AAA0812_6-50	50	6	12	143512.4	143512.4	0.29%	1.36	2.17	3.53	179.40	74	13	182.94	TCHSHT
AAA0912_6-50	50	6	12	151004.8	151004.8	0.43%	1.61	1.12	2.74	153.35	58	10	156.09	TCHSHT
AAA0018_6-50	50	6	18	215878.5	215878.5	0.31%	2.37	1.42	3.80	132.79	46	6	136.59	TCHSHT
AAA0118_6-50	50	6	18	218202.5	218202.5	0.34%	2.65	0.91	3.58	173.50	60	8	177.09	TCHSHT
AAA0218_6-50	50	6	18	223932.9	223932.9	0.49%	2.95	3.30	6.25	339.53	90	12	345.79	TCHSHT
AAA0318_6-50	50	6	18	225650.9	225650.9	0.34%	2.69	1.04	3.74	273.33	92	12	277.07	TCHSHT
AAA0418_6-50	50	6	18	236153.6	236153.6	0.47%	3.44	1.69	5.14	273.19	68	9	278.33	TCHSHT
AAA0518_6-50	50	6	18	225599.0	225599.0	0.56%	3.20	1.07	4.27	261.93	76	10	266.21	TCHSHT
AAA0618_6-50	50	6	18	219391.9	219391.9	0.64%	5.63	4.24	9.88	384.06	68	9	393.95	TCHSHT
AAA0718_6-50	50	6	18	230334.9	230334.9	0.42%	2.78	1.28	4.07	310.32	106	14	314.40	TCHSHT
AAA0818_6-50	50	6	18	214480.7	214480.7	0.23%	2.81	1.23	4.06	238.40	120	16	242.46	TCHSHT
AAA0918_6-50	50	6	18	224077.5	224077.5	0.36%	2.97	1.38	4.36	444.11	140	19	448.47	TCHSHT
AAB006_2-6	6	2	6	14637.3	14637.3	0.40%	0.12	0.03	0.15	0.34	15	3	0.49	TCHSLT
AAB016_2-6	6	2	6	12115.9	12115.9	1.88%	0.17	0.02	0.20	0.38	15	3	0.58	TCHSLT
AAB026_2-6	6	2	6	15474.8	15474.8	0.00%	0.09	0.02	0.12	0.31	15	3	0.43	TCHSLT
AAB046_2-6	6	2	6	19047.5	19047.5	0.63%	0.11	0.02	0.14	1.08	25	5	1.22	TCHSLT
AAB056_2-6	6	2	6	18050.1	18050.1	4.09%	0.12	0.03	0.15	0.34	10	2	0.49	TCHSLT
AAB066_2-6	6	2	6	17565.7	17565.7	0.00%	0.12	0.02	0.14	0.30	15	3	0.44	TCHSLT
AAB076_2-6	6	2	6	18102.1	18102.1	0.67%	0.12	0.02	0.13	0.34	15	3	0.47	TCHSLT
AAB086_2-6	6	2	6	13673.4	13673.4	1.14%	0.10	0.03	0.13	0.28	15	3	0.41	TCHSLT
AAB096_2-6	6	2	6	14297.2	14297.2	0.74%	0.14	0.02	0.16	0.17	10	2	0.33	TCHSLT
AAB0012_2-6	6	2	12	25734.9	25734.9	0.60%	0.20	0.05	0.25	4.39	69	12	4.65	TCHSLT
AAB0112_2-6	6	2	12	25276.2	25276.2	1.58%	0.33	0.03	0.37	5.43	63	11	5.80	TCHSLT
AAB0212_2-6	6	2	12	28635.0	28635.0	1.37%	0.22	0.04	0.26	0.93	23	4	1.19	TCHSLT
AAB0412_2-6	6	2	12	33175.5	33175.5	1.97%	0.32	0.04	0.36	5.42	63	11	5.78	TCHSLT
AAB0512_2-6	6	2	12	33213.8	33213.8	0.01%	0.24	0.06	0.30	7.72	85	15	8.03	TCHSLT
AAB0612_2-6	6	2	12	30574.1	30574.1	0.00%	0.25	0.04	0.29	2.38	46	8	2.67	TCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0712_2-6	6	2	12	28304.6	28304.6	1.22%	0.23	0.05	0.28	2.15	62	11	2.42	TCHSLT
AAB0812_2-6	6	2	12	22939.3	22939.3	0.46%	0.15	0.04	0.20	1.37	40	7	1.57	TCHSLT
AAB0912_2-6	6	2	12	29314.6	29314.6	1.01%	0.26	0.03	0.30	3.86	46	8	4.16	TCHSLT
AAB0018_2-6	6	2	18	34958.0	34958.0	1.12%	0.53	0.06	0.59	5.62	44	6	6.22	TCHSLT
AAB0118_2-6	6	2	18	36039.5	36039.5	2.44%	0.40	0.05	0.45	8.05	60	8	8.51	TCHSLT
AAB0218_2-6	6	2	18	40817.1	40817.1	0.20%	0.35	0.07	0.42	6.30	60	8	6.72	TCHSLT
AAB0418_2-6	6	2	18	39374.5	39374.5	1.96%	0.46	0.07	0.53	5.61	44	6	6.15	TCHSLT
AAB0518_2-6	6	2	18	44707.8	44707.8	1.71%	0.32	0.10	0.42	7.71	60	8	8.13	TCHSLT
AAB0618_2-6	6	2	18	41798.9	41798.9	1.43%	0.43	0.08	0.52	8.11	68	9	8.63	TCHSLT
AAB0718_2-6	6	2	18	40807.9	40807.9	0.56%	0.41	0.07	0.48	5.54	60	8	6.02	TCHSLT
AAB0818_2-6	6	2	18	32842.6	32842.6	0.43%	0.28	0.05	0.33	4.10	68	9	4.43	TCHSLT
AAB0918_2-6	6	2	18	37585.0	37585.0	0.62%	0.28	0.09	0.37	11.45	68	9	11.82	TCHSLT
AAB006_2-12	12	2	6	23465.3	23465.3	1.59%	0.22	0.03	0.25	0.59	15	3	0.85	TCHSLT
AAB016_2-12	12	2	6	27010.1	27010.1	0.63%	0.16	0.02	0.18	0.69	15	3	0.87	TCHSLT
AAB026_2-12	12	2	6	28146.4	28146.4	0.00%	0.20	0.03	0.22	0.66	20	4	0.89	TCHSLT
AAB036_2-12	12	2	6	30480.5	30480.5	0.24%	0.12	0.03	0.15	0.96	20	4	1.11	TCHSLT
AAB046_2-12	12	2	6	27982.7	27982.7	4.90%	0.16	0.03	0.19	0.58	15	3	0.77	TCHSLT
AAB056_2-12	12	2	6	30755.7	30755.7	0.89%	0.17	0.02	0.20	0.61	10	2	0.81	TCHSLT
AAB066_2-12	12	2	6	27781.0	27781.0	1.57%	0.18	0.03	0.22	0.69	15	3	0.91	TCHSLT
AAB076_2-12	12	2	6	27748.1	27748.1	1.93%	0.13	0.02	0.15	0.48	15	3	0.63	TCHSLT
AAB086_2-12	12	2	6	25817.5	25817.5	0.48%	0.15	0.03	0.18	1.42	25	5	1.61	TCHSLT
AAB096_2-12	12	2	6	29231.1	29231.1	1.35%	0.17	0.02	0.19	0.47	10	2	0.66	TCHSLT
AAB0012_2-12	12	2	12	43713.0	43713.0	0.48%	0.27	0.04	0.31	6.06	40	7	6.37	TCHSLT
AAB0112_2-12	12	2	12	42899.7	42899.7	0.27%	0.28	0.06	0.34	3.91	45	8	4.25	TCHSLT
AAB0212_2-12	12	2	12	46237.9	46237.9	1.24%	0.32	0.07	0.39	11.12	69	12	11.52	TCHSLT
AAB0312_2-12	12	2	12	54978.4	54978.4	1.30%	0.35	0.08	0.43	9.74	52	9	10.17	TCHSLT
AAB0412_2-12	12	2	12	46094.6	46094.6	0.21%	0.45	0.05	0.50	6.58	57	10	7.08	TCHSLT
AAB0512_2-12	12	2	12	54631.9	54631.9	1.15%	0.31	0.06	0.37	15.17	80	14	15.55	TCHSLT
AAB0612_2-12	12	2	12	47806.1	47806.1	0.28%	0.33	0.06	0.39	1.83	23	4	2.23	TCHSLT
AAB0712_2-12	12	2	12	53707.2	53707.2	1.48%	0.32	0.04	0.36	27.51	52	9	27.87	TCHSLT
AAB0812_2-12	12	2	12	42900.9	42900.9	0.58%	0.23	0.07	0.31	7.43	51	9	7.74	TCHSLT
AAB0912_2-12	12	2	12	54301.2	54301.2	1.72%	0.39	0.04	0.43	11.43	34	6	11.86	TCHSLT
AAB0118_2-12	12	2	18	65187.1	65187.1	1.64%	0.66	0.07	0.73	15.22	38	5	15.95	TCHSLT
AAB0218_2-12	12	2	18	68788.0	68788.0	2.48%	0.49	0.08	0.57	44.36	46	6	44.93	TCHSLT
AAB0318_2-12	12	2	18	77961.5	77961.5	1.38%	0.38	0.09	0.47	62.98	112	15	63.45	TCHSLT
AAB0418_2-12	12	2	18	69536.1	69536.1	1.36%	0.52	0.10	0.63	32.06	60	8	32.70	TCHSLT
AAB0518_2-12	12	2	18	76756.6	76756.6	2.00%	0.45	0.11	0.56	45.79	46	6	46.36	TCHSLT
AAB0618_2-12	12	2	18	68989.6	68989.6	0.55%	0.50	0.08	0.58	15.73	52	7	16.31	TCHSLT
AAB0718_2-12	12	2	18	69743.6	69743.6	0.48%	0.33	0.07	0.40	17.52	60	8	17.93	TCHSLT
AAB0818_2-12	12	2	18	67881.7	67881.7	1.64%	0.73	0.09	0.83	73.38	76	10	74.21	TCHSLT
AAB0918_2-12	12	2	18	76013.7	76013.7	1.46%	0.63	0.10	0.73	72.66	90	12	73.39	TCHSLT
AAB006_2-25	25	2	6	50723.5	50723.5	0.51%	0.30	0.05	0.35	2.60	15	3	2.95	TCHSLT
AAB016_2-25	25	2	6	50950.4	50950.4	0.27%	0.23	0.05	0.28	0.54	10	2	0.82	TCHSLT
AAB026_2-25	25	2	6	56288.6	56288.6	0.88%	0.29	0.03	0.33	2.52	15	3	2.85	TCHSLT
AAB036_2-25	25	2	6	56310.0	56310.0	0.47%	0.30	0.05	0.36	0.89	10	2	1.25	TCHSLT
AAB046_2-25	25	2	6	58505.0	58505.0	0.32%	0.28	0.03	0.31	1.92	15	3	2.23	TCHSLT
AAB056_2-25	25	2	6	60920.4	60920.4	1.21%	0.30	0.04	0.34	2.99	15	3	3.33	TCHSLT
AAB066_2-25	25	2	6	48418.1	48418.1	0.47%	0.23	0.04	0.27	1.48	15	3	1.75	TCHSLT
AAB076_2-25	25	2	6	54759.1	54759.1	0.46%	0.30	0.03	0.33	1.61	15	3	1.94	TCHSLT
AAB086_2-25	25	2	6	58494.9	58494.9	0.22%	0.26	0.03	0.29	2.51	20	4	2.80	TCHSLT
AAB096_2-25	25	2	6	65292.7	65292.7	0.81%	0.34	0.07	0.41	9.86	30	6	10.27	TCHSLT
AAB0012_2-25	25	2	12	92573.4	92573.4	0.86%	0.47	0.07	0.54	86.91	69	12	87.45	TCHSLT
AAB0112_2-25	25	2	12	97323.6	97323.6	0.23%	0.42	0.07	0.49	42.87	74	13	43.37	TCHSLT
AAB0212_2-25	25	2	12	95493.8	95493.8	0.89%	0.58	0.14	0.72	120.25	68	12	120.97	TCHSLT
AAB0312_2-25	25	2	12	98999.2	98999.2	0.84%	0.45	0.11	0.57	84.87	81	14	85.44	TCHSLT
AAB0412_2-25	25	2	12	98532.8	98532.8	0.63%	0.52	0.06	0.58	97.89	103	18	98.47	TCHSLT
AAB0512_2-25	25	2	12	111165.0	111165.0	0.82%	0.67	0.07	0.74	91.63	69	12	92.37	TCHSLT
AAB0612_2-25	25	2	12	93966.9	93966.9	0.41%	0.58	0.25	0.83	59.30	92	16	60.13	TCHSLT
AAB0712_2-25	25	2	12	98278.6	98278.6	0.59%	0.48	0.10	0.58	81.50	68	12	82.09	TCHSLT
AAB0812_2-25	25	2	12	103154.0	103154.0	0.84%	0.57	0.09	0.66	84.08	51	9	84.75	TCHSLT
AAB0912_2-25	25	2	12	108806.4	108806.4	1.13%	0.60	0.13	0.74	198.54	93	16	199.28	TCHSLT
AAB0018_2-25	25	2	18	132237.0	132237.0	0.51%	0.76	0.17	0.93	155.66	98	13	156.60	TCHSLT
AAB0118_2-25	25	2	18	135702.0	135702.0	0.34%	0.82	0.13	0.96	72.95	104	14	73.91	TCHSLT
AAB0218_2-25	25	2	18	134567.9	134567.9	0.81%	1.13	0.20	1.34	131.77	60	8	133.10	TCHSLT
AAB0318_2-25	25	2	18	148260.1	148260.1	1.13%	0.75	0.13	0.88	148.07	52	7	148.95	TCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0418_2-25	25	2	18	141094.6	141094.6	0.52%	0.80	0.11	0.91	64.83	66	9	65.74	TCHSLT
AAB0518_2-25	25	2	18	154502.4	154502.4	0.75%	1.07	0.15	1.22	282.35	90	12	283.58	TCHSLT
AAB0618_2-25	25	2	18	130808.5	130808.5	0.35%	0.74	0.09	0.83	45.58	52	7	46.42	TCHSLT
AAB0718_2-25	25	2	18	146011.8	146011.8	0.58%	1.22	0.11	1.33	135.49	82	11	136.82	TCHSLT
AAB0818_2-25	25	2	18	143442.8	143442.8	0.78%	1.17	0.13	1.30	226.43	84	11	227.73	TCHSLT
AAB0918_2-25	25	2	18	156027.5	156027.5	1.02%	0.84	0.09	0.93	207.55	84	11	208.49	TCHSLT
AAB006_2-50	50	2	6	99451.1	99451.1	0.23%	0.50	0.08	0.58	6.71	20	4	7.30	TCHSLT
AAB016_2-50	50	2	6	102419.3	102419.3	0.35%	0.43	0.10	0.53	5.81	20	4	6.34	TCHSLT
AAB026_2-50	50	2	6	101616.8	101616.8	0.12%	0.46	0.07	0.53	3.02	15	3	3.56	TCHSLT
AAB036_2-50	50	2	6	108813.7	108813.7	0.15%	0.50	0.08	0.58	3.76	10	2	4.34	TCHSLT
AAB046_2-50	50	2	6	116349.0	116349.0	0.28%	0.52	0.06	0.59	7.05	15	3	7.64	TCHSLT
AAB056_2-50	50	2	6	114651.9	114651.9	0.61%	0.46	0.05	0.51	13.99	10	2	14.50	TCHSLT
AAB066_2-50	50	2	6	102289.0	102289.0	0.33%	0.51	0.06	0.58	5.39	15	3	5.97	TCHSLT
AAB076_2-50	50	2	6	110751.8	110751.8	0.69%	0.50	0.06	0.56	12.35	20	4	12.91	TCHSLT
AAB086_2-50	50	2	6	104820.9	104820.9	0.11%	0.44	0.06	0.51	6.22	20	4	6.73	TCHSLT
AAB096_2-50	50	2	6	111289.6	111289.6	0.20%	0.63	0.05	0.68	4.82	10	2	5.50	TCHSLT
AAB0012_2-50	50	2	12	182736.8	182736.8	0.18%	0.92	0.16	1.09	103.24	75	13	104.33	TCHSLT
AAB0112_2-50	50	2	12	188951.1	188951.1	0.27%	0.89	0.13	1.03	105.94	57	10	106.97	TCHSLT
AAB0212_2-50	50	2	12	185230.5	185230.5	0.35%	0.92	0.21	1.13	224.20	103	18	225.33	TCHSLT
AAB0312_2-50	50	2	12	195243.2	195243.2	0.32%	0.84	0.12	0.96	111.70	63	11	112.67	TCHSLT
AAB0412_2-50	50	2	12	206497.1	206497.1	0.42%	1.30	0.16	1.46	182.03	52	9	183.50	TCHSLT
AAB0512_2-50	50	2	12	202714.6	202714.6	0.55%	0.88	0.16	1.04	179.51	75	13	180.56	TCHSLT
AAB0612_2-50	50	2	12	179835.6	179835.6	0.26%	0.87	0.14	1.01	88.32	62	11	89.34	TCHSLT
AAB0712_2-50	50	2	12	196714.0	196714.0	0.38%	0.98	0.11	1.10	149.95	40	7	151.05	TCHSLT
AAB0812_2-50	50	2	12	186199.1	186199.1	0.29%	0.90	0.11	1.01	143.73	75	13	144.75	TCHSLT
AAB0912_2-50	50	2	12	200038.0	200038.0	0.42%	1.28	0.12	1.40	122.60	52	9	124.00	TCHSLT
AAB0018_2-50	50	2	18	264234.4	264234.4	0.13%	1.17	0.24	1.42	138.71	68	9	140.12	TCHSLT
AAB0118_2-50	50	2	18	272713.1	272713.1	0.24%	1.65	0.23	1.89	171.83	60	8	173.73	TCHSLT
AAB0218_2-50	50	2	18	265091.0	265091.0	0.25%	1.36	0.13	1.49	164.96	52	7	166.46	TCHSLT
AAB0318_2-50	50	2	18	285387.3	285387.3	0.22%	1.26	0.18	1.44	96.55	38	5	97.99	TCHSLT
AAB0418_2-50	50	2	18	300574.6	300574.6	0.46%	1.98	0.18	2.17	302.69	54	7	304.86	TCHSLT
AAB0518_2-50	50	2	18	292187.0	292187.0	0.28%	1.26	0.15	1.41	244.53	84	11	245.95	TCHSLT
AAB0618_2-50	50	2	18	262406.6	262406.6	0.29%	1.78	0.18	1.96	117.35	38	5	119.31	TCHSLT
AAB0718_2-50	50	2	18	279279.2	279279.2	0.32%	1.56	0.21	1.78	272.80	60	8	274.58	TCHSLT
AAB0818_2-50	50	2	18	268056.2	268056.2	0.17%	1.26	0.18	1.45	163.30	52	7	164.75	TCHSLT
AAB0918_2-50	50	2	18	290477.1	290477.1	0.41%	1.65	0.18	1.83	330.40	84	11	332.23	TCHSLT
AAB006_4-6	6	4	6	10170.4	10170.4	2.26%	0.12	0.04	0.16	0.27	10	2	0.43	TCHSLT
AAB016_4-6	6	4	6	13656.8	13656.8	0.20%	0.19	0.06	0.25	1.63	20	4	1.88	TCHSLT
AAB026_4-6	6	4	6	12992.2	12992.2	0.71%	0.19	0.05	0.23	0.48	15	3	0.72	TCHSLT
AAB036_4-6	6	4	6	13992.7	13992.7	1.02%	0.15	0.04	0.19	1.01	25	5	1.20	TCHSLT
AAB046_4-6	6	4	6	11571.9	11571.9	0.89%	0.21	0.04	0.25	0.53	15	3	0.78	TCHSLT
AAB056_4-6	6	4	6	16689.7	16689.7	1.89%	0.14	0.05	0.19	0.70	15	3	0.88	TCHSLT
AAB066_4-6	6	4	6	13403.2	13403.2	4.52%	0.17	0.05	0.21	0.71	20	4	0.93	TCHSLT
AAB076_4-6	6	4	6	15036.4	15036.4	2.71%	0.13	0.05	0.18	0.83	20	4	1.02	TCHSLT
AAB086_4-6	6	4	6	10817.9	10817.9	2.20%	0.13	0.06	0.20	0.30	15	3	0.50	TCHSLT
AAB096_4-6	6	4	6	15261.8	15261.8	0.71%	0.14	0.04	0.18	0.31	15	3	0.49	TCHSLT
AAB0012_4-6	6	4	12	18527.0	18527.0	0.49%	0.31	0.09	0.39	3.32	51	9	3.71	TCHSLT
AAB0112_4-6	6	4	12	27069.2	27069.2	0.94%	0.46	0.13	0.59	6.59	40	7	7.19	TCHSLT
AAB0212_4-6	6	4	12	24863.8	24863.8	0.69%	0.41	0.09	0.50	2.81	28	5	3.31	TCHSLT
AAB0312_4-6	6	4	12	27519.8	27519.8	0.45%	0.33	0.10	0.43	2.51	41	7	2.94	TCHSLT
AAB0412_4-6	6	4	12	26160.4	26160.4	1.18%	0.32	0.08	0.40	13.93	57	10	14.34	TCHSLT
AAB0512_4-6	6	4	12	31979.7	31979.7	0.58%	0.36	0.09	0.45	2.92	51	9	3.37	TCHSLT
AAB0612_4-6	6	4	12	22741.8	22741.8	0.00%	0.30	0.14	0.43	2.40	40	7	2.84	TCHSLT
AAB0712_4-6	6	4	12	26021.3	26021.3	1.89%	0.28	0.11	0.40	1.99	34	6	2.39	TCHSLT
AAB0812_4-6	6	4	12	23745.1	23745.1	2.32%	0.34	0.10	0.44	2.56	35	6	3.01	TCHSLT
AAB0912_4-6	6	4	12	27413.8	27413.8	0.23%	0.31	0.08	0.40	1.72	46	8	2.12	TCHSLT
AAB0018_4-6	6	4	18	28384.8	28384.8	0.02%	0.61	0.14	0.75	6.75	54	7	7.50	TCHSLT
AAB0118_4-6	6	4	18	35997.0	35997.0	1.12%	1.07	0.20	1.28	26.38	74	10	27.65	TCHSLT
AAB0218_4-6	6	4	18	35823.9	35823.9	1.07%	0.78	0.19	0.98	9.43	44	6	10.41	TCHSLT
AAB0318_4-6	6	4	18	41488.1	41488.1	0.25%	0.59	0.13	0.73	14.79	52	7	15.52	TCHSLT
AAB0418_4-6	6	4	18	37354.0	37354.0	1.08%	0.75	0.20	0.96	11.26	52	7	12.22	TCHSLT
AAB0518_4-6	6	4	18	45452.3	45452.3	1.22%	0.62	0.19	0.81	13.33	60	8	14.15	TCHSLT
AAB0618_4-6	6	4	18	36562.8	36562.8	0.97%	0.59	0.16	0.75	9.08	52	7	9.83	TCHSLT
AAB0718_4-6	6	4	18	38864.0	38864.0	0.37%	0.41	0.17	0.58	9.12	60	8	9.70	TCHSLT
AAB0818_4-6	6	4	18	29176.0	29176.0	0.15%	0.52	0.19	0.71	3.27	60	8	3.99	TCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0918_4-6	6	4	18	39418.5	39418.5	0.01%	0.60	0.13	0.72	4.91	52	7	5.64	TCHSLT
AAB006_4-12	12	4	6	21117.7	21117.7	0.00%	0.24	0.06	0.30	1.17	15	3	1.47	TCHSLT
AAB016_4-12	12	4	6	25122.0	25122.0	0.81%	0.29	0.05	0.34	6.44	25	5	6.79	TCHSLT
AAB026_4-12	12	4	6	19327.8	19327.8	0.12%	0.17	0.06	0.23	1.08	20	4	1.31	TCHSLT
AAB036_4-12	12	4	6	22088.7	22088.7	1.63%	0.25	0.06	0.31	2.57	15	3	2.88	TCHSLT
AAB046_4-12	12	4	6	24327.7	24327.7	1.42%	0.27	0.05	0.32	2.29	20	4	2.60	TCHSLT
AAB056_4-12	12	4	6	25925.0	25925.0	1.95%	0.23	0.08	0.31	0.87	10	2	1.18	TCHSLT
AAB066_4-12	12	4	6	22544.3	22544.3	1.91%	0.26	0.07	0.33	1.20	10	2	1.53	TCHSLT
AAB076_4-12	12	4	6	23572.8	23572.8	3.92%	0.26	0.05	0.32	17.54	15	3	17.86	TCHSLT
AAB086_4-12	12	4	6	23797.3	23797.3	1.88%	0.19	0.04	0.23	0.62	10	2	0.86	TCHSLT
AAB096_4-12	12	4	6	23792.7	23792.7	1.25%	0.22	0.06	0.28	1.59	10	2	1.87	TCHSLT
AAB0012_4-12	12	4	12	37660.7	37660.7	0.61%	0.57	0.10	0.66	14.79	51	9	15.45	TCHSLT
AAB0112_4-12	12	4	12	44157.3	44157.3	2.16%	0.85	0.14	0.99	80.91	58	10	81.90	TCHSLT
AAB0212_4-12	12	4	12	38128.3	38128.3	0.16%	0.37	0.12	0.50	13.57	57	10	14.07	TCHSLT
AAB0312_4-12	12	4	12	42776.5	42776.5	1.96%	0.49	0.17	0.67	52.22	63	11	52.89	TCHSLT
AAB0412_4-12	12	4	12	44116.1	44116.1	1.60%	0.48	0.14	0.62	39.30	58	10	39.92	TCHSLT
AAB0512_4-12	12	4	12	48331.7	48331.7	1.64%	0.53	0.17	0.70	72.00	69	12	72.70	TCHSLT
AAB0612_4-12	12	4	12	41544.4	41544.4	0.56%	0.40	0.12	0.52	14.24	51	9	14.76	TCHSLT
AAB0712_4-12	12	4	12	45951.0	45951.0	2.17%	0.50	0.18	0.68	90.38	64	11	91.06	TCHSLT
AAB0812_4-12	12	4	12	42781.3	42781.3	0.00%	0.38	0.07	0.45	10.74	62	11	11.20	TCHSLT
AAB0912_4-12	12	4	12	46938.9	46938.9	1.70%	0.50	0.17	0.68	52.81	46	8	53.48	TCHSLT
AAB0018_4-12	12	4	18	55926.1	55926.1	0.93%	0.86	0.21	1.08	54.20	38	5	55.28	TCHSLT
AAB0118_4-12	12	4	18	63223.5	63223.5	1.41%	1.42	0.36	1.79	107.45	62	8	109.24	TCHSLT
AAB0218_4-12	12	4	18	54800.8	54800.8	0.37%	0.55	0.23	0.78	19.17	54	7	19.95	TCHSLT
AAB0318_4-12	12	4	18	64922.6	64922.6	1.86%	1.17	0.16	1.33	154.54	82	11	155.88	TCHSLT
AAB0418_4-12	12	4	18	65683.0	65683.0	1.95%	0.78	0.14	0.92	92.47	52	7	93.39	TCHSLT
AAB0518_4-12	12	4	18	69425.7	69425.7	1.72%	0.79	0.24	1.03	100.62	76	10	101.65	TCHSLT
AAB0618_4-12	12	4	18	61900.7	61900.7	1.77%	0.75	0.25	1.01	17.49	44	6	18.50	TCHSLT
AAB0718_4-12	12	4	18	70493.2	70493.2	2.52%	1.56	0.29	1.85	222.87	98	13	224.73	TCHSLT
AAB0818_4-12	12	4	18	64641.6	64641.6	0.00%	0.63	0.16	0.80	54.81	82	11	55.61	TCHSLT
AAB0918_4-12	12	4	18	66386.4	66386.4	1.80%	0.74	0.28	1.02	114.76	76	10	115.79	TCHSLT
AAB006_4-25	25	4	6	39075.6	39075.6	0.32%	0.44	0.09	0.53	6.80	10	2	7.34	TCHSLT
AAB016_4-25	25	4	6	47847.9	47847.9	0.46%	0.46	0.08	0.54	16.34	20	4	16.89	TCHSLT
AAB026_4-25	25	4	6	45996.2	45996.2	1.53%	0.51	0.16	0.66	21.27	20	4	21.93	TCHSLT
AAB036_4-25	25	4	6	45872.6	45872.6	1.56%	0.42	0.15	0.57	11.74	20	4	12.31	TCHSLT
AAB046_4-25	25	4	6	46112.7	46112.7	0.62%	0.40	0.09	0.50	21.35	20	4	21.84	TCHSLT
AAB056_4-25	25	4	6	50389.7	50389.7	1.44%	0.44	0.08	0.52	23.53	20	4	24.05	TCHSLT
AAB066_4-25	25	4	6	39718.1	39718.1	0.93%	0.35	0.13	0.48	3.18	15	3	3.67	TCHSLT
AAB076_4-25	25	4	6	45885.5	45885.5	1.46%	0.43	0.10	0.52	20.75	20	4	21.27	TCHSLT
AAB086_4-25	25	4	6	41994.6	41994.6	0.85%	0.46	0.09	0.55	15.47	15	3	16.02	TCHSLT
AAB096_4-25	25	4	6	47692.1	47692.1	0.69%	0.49	0.17	0.66	3.90	20	4	4.56	TCHSLT
AAB0012_4-25	25	4	12	77058.0	77058.0	0.79%	1.19	0.19	1.38	155.22	74	13	156.60	TCHSLT
AAB0112_4-25	25	4	12	86356.8	86356.8	1.25%	1.05	0.29	1.34	156.69	58	10	158.04	TCHSLT
AAB0212_4-25	25	4	12	82705.9	82705.9	1.39%	0.93	0.33	1.26	271.79	69	12	273.05	TCHSLT
AAB0312_4-25	25	4	12	85369.6	85369.6	0.64%	0.97	0.32	1.30	110.77	57	10	112.07	TCHSLT
AAB0412_4-25	25	4	12	86732.9	86732.9	1.17%	0.76	0.45	1.22	139.00	69	12	140.22	TCHSLT
AAB0512_4-25	25	4	12	89960.1	89960.1	1.04%	0.84	0.16	1.00	113.09	52	9	114.10	TCHSLT
AAB0612_4-25	25	4	12	75830.7	75830.7	0.59%	0.85	0.19	1.04	103.01	63	11	104.06	TCHSLT
AAB0712_4-25	25	4	12	86040.6	86040.6	0.80%	0.79	0.28	1.07	181.27	80	14	182.34	TCHSLT
AAB0812_4-25	25	4	12	80815.7	80815.7	0.73%	0.76	0.18	0.94	152.38	69	12	153.33	TCHSLT
AAB0912_4-25	25	4	12	86292.0	86292.0	0.40%	0.64	0.23	0.87	60.33	63	11	61.21	TCHSLT
AAB0018_4-25	25	4	18	111489.6	111489.6	0.88%	1.83	0.32	2.15	121.70	46	6	123.85	TCHSLT
AAB0118_4-25	25	4	18	125263.2	125263.2	1.60%	1.63	0.54	2.19	270.54	68	9	272.73	TCHSLT
AAB0218_4-25	25	4	18	122244.2	122244.2	2.49%	1.87	0.45	2.32	235.14	46	6	237.46	TCHSLT
AAB0318_4-25	25	4	18	124895.3	124895.3	1.18%	1.36	0.47	1.83	180.42	62	8	182.26	TCHSLT
AAB0418_4-25	25	4	18	127081.9	127081.9	1.07%	1.36	0.32	1.68	208.90	76	10	210.59	TCHSLT
AAB0518_4-25	25	4	18	129411.5	129411.5	0.85%	1.34	0.32	1.66	162.20	68	9	163.87	TCHSLT
AAB0618_4-25	25	4	18	112647.5	112647.5	0.90%	1.22	0.37	1.60	153.83	82	11	155.42	TCHSLT
AAB0718_4-25	25	4	18	124920.0	124920.0	0.86%	1.47	0.51	1.98	231.42	84	11	233.40	TCHSLT
AAB0818_4-25	25	4	18	114911.8	114911.8	0.89%	1.77	0.48	2.25	313.40	112	15	315.66	TCHSLT
AAB0918_4-25	25	4	18	127363.6	127363.6	1.18%	1.72	0.43	2.16	217.64	98	13	219.80	TCHSLT
AAB006_4-50	50	4	6	83896.4	83896.4	0.46%	0.68	0.30	0.98	46.15	25	5	47.13	TCHSLT
AAB016_4-50	50	4	6	87421.0	87421.0	0.31%	0.73	0.27	1.00	41.38	20	4	42.38	TCHSLT
AAB026_4-50	50	4	6	89450.3	89450.3	0.56%	0.79	0.27	1.06	52.12	15	3	53.18	TCHSLT
AAB036_4-50	50	4	6	90463.0	90463.0	0.63%	0.64	0.10	0.74	24.02	15	3	24.76	TCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB046_4-50	50	4	6	98217.1	98217.1	0.82%	0.78	0.17	0.95	48.86	15	3	49.81	TCHSLT
AAB056_4-50	50	4	6	92740.4	92740.4	0.77%	0.78	0.28	1.07	66.11	20	4	67.18	TCHSLT
AAB066_4-50	50	4	6	81569.0	81569.0	0.25%	0.55	0.12	0.67	20.63	15	3	21.30	TCHSLT
AAB076_4-50	50	4	6	86199.7	86199.7	0.76%	0.75	0.12	0.87	71.03	25	5	71.90	TCHSLT
AAB086_4-50	50	4	6	86204.9	86204.9	0.47%	0.73	0.15	0.88	29.09	15	3	29.97	TCHSLT
AAB096_4-50	50	4	6	96562.3	96562.3	0.28%	0.65	0.18	0.83	14.81	15	3	15.64	TCHSLT
AAB0012_4-50	50	4	12	163220.0	163220.0	0.44%	1.79	0.47	2.27	219.38	63	11	221.66	TCHSLT
AAB0112_4-50	50	4	12	159707.4	159707.4	0.33%	1.11	0.91	2.03	208.51	58	10	210.54	TCHSLT
AAB0212_4-50	50	4	12	161755.7	161755.7	0.54%	1.69	0.43	2.13	250.60	58	10	252.73	TCHSLT
AAB0312_4-50	50	4	12	169488.1	169488.1	0.58%	1.54	0.37	1.92	189.64	52	9	191.57	TCHSLT
AAB0412_4-50	50	4	12	175978.5	175978.5	0.93%	1.61	0.62	2.23	482.35	105	18	484.59	TCHSLT
AAB0512_4-50	50	4	12	168920.0	168920.0	0.73%	1.58	0.41	2.00	361.49	103	18	363.49	TCHSLT
AAB0612_4-50	50	4	12	152154.9	152154.9	0.31%	1.54	0.28	1.83	145.02	97	17	146.86	TCHSLT
AAB0712_4-50	50	4	12	165759.2	165759.2	0.60%	1.54	0.34	1.89	240.05	58	10	241.94	TCHSLT
AAB0812_4-50	50	4	12	160730.1	160730.1	0.79%	1.27	0.64	1.91	181.11	46	8	183.02	TCHSLT
AAB0912_4-50	50	4	12	174445.1	174445.1	0.31%	1.58	0.62	2.21	84.37	46	8	86.58	TCHSLT
AAB0018_4-50	50	4	18	232030.9	232030.9	0.48%	2.89	0.56	3.46	287.10	68	9	290.56	TCHSLT
AAB0118_4-50	50	4	18	235449.6	235449.6	0.47%	2.40	0.84	3.25	220.61	54	7	223.87	TCHSLT
AAB0218_4-50	50	4	18	242759.8	242759.8	0.56%	2.90	0.49	3.39	583.97	114	15	587.37	TCHSLT
AAB0318_4-50	50	4	18	246723.3	246723.3	0.49%	2.77	0.46	3.24	478.74	128	17	481.98	TCHSLT
AAB0418_4-50	50	4	18	257530.2	257530.2	0.55%	2.59	0.60	3.19	502.52	92	12	505.72	TCHSLT
AAB0518_4-50	50	4	18	248274.9	248274.9	0.51%	2.29	1.08	3.38	307.25	86	11	310.63	TCHSLT
AAB0618_4-50	50	4	18	226020.6	226020.6	0.31%	2.48	0.31	2.80	142.59	54	7	145.39	TCHSLT
AAB0718_4-50	50	4	18	245990.4	245990.4	0.90%	3.40	0.81	4.21	458.22	82	11	462.44	TCHSLT
AAB0818_4-50	50	4	18	230844.1	230844.1	0.48%	2.52	0.94	3.46	564.14	152	20	567.61	TCHSLT
AAB0918_4-50	50	4	18	254260.6	254260.6	0.29%	2.28	0.62	2.91	451.06	134	18	453.98	TCHSLT
AAB006_6-6	6	6	6	10290.5	10290.5	0.00%	0.16	0.07	0.23	0.84	20	4	1.07	TCHSLT
AAB026_6-6	6	6	6	13496.6	13496.6	0.59%	0.20	0.11	0.31	0.69	15	3	1.00	TCHSLT
AAB036_6-6	6	6	6	15280.7	15280.7	2.68%	0.18	0.08	0.26	0.93	30	6	1.20	TCHSLT
AAB046_6-6	6	6	6	15139.2	15139.2	2.51%	0.23	0.07	0.30	0.66	20	4	0.96	TCHSLT
AAB056_6-6	6	6	6	18131.1	18131.1	0.27%	0.20	0.06	0.27	0.48	10	2	0.75	TCHSLT
AAB066_6-6	6	6	6	12440.1	12440.1	0.52%	0.16	0.05	0.22	0.45	10	2	0.67	TCHSLT
AAB076_6-6	6	6	6	17100.0	17100.0	2.80%	0.18	0.09	0.28	3.03	25	5	3.31	TCHSLT
AAB086_6-6	6	6	6	16722.0	16722.0	2.41%	0.24	0.10	0.34	0.92	15	3	1.26	TCHSLT
AAB096_6-6	6	6	6	18447.5	18447.5	2.75%	0.23	0.10	0.33	0.88	10	2	1.22	TCHSLT
AAB0012_6-6	6	6	12	21368.0	21368.0	0.68%	0.50	0.11	0.61	5.62	51	9	6.23	TCHSLT
AAB0212_6-6	6	6	12	26163.6	26163.6	0.23%	0.56	0.31	0.88	4.30	34	6	5.17	TCHSLT
AAB0312_6-6	6	6	12	29455.8	29455.8	1.49%	0.59	0.20	0.79	5.30	51	9	6.09	TCHSLT
AAB0412_6-6	6	6	12	29390.6	29390.6	0.68%	0.59	0.40	0.99	6.81	62	11	7.80	TCHSLT
AAB0512_6-6	6	6	12	31939.4	31939.4	1.12%	0.43	0.14	0.57	7.40	57	10	7.97	TCHSLT
AAB0612_6-6	6	6	12	25667.3	25667.3	0.34%	0.50	0.12	0.62	3.45	23	4	4.07	TCHSLT
AAB0712_6-6	6	6	12	31034.8	31034.8	1.29%	0.50	0.16	0.65	4.53	34	6	5.19	TCHSLT
AAB0812_6-6	6	6	12	30517.5	30517.5	2.29%	0.55	0.29	0.84	18.03	57	10	18.87	TCHSLT
AAB0912_6-6	6	6	12	34343.2	34343.2	1.38%	0.82	0.25	1.07	10.51	45	8	11.58	TCHSLT
AAB0018_6-6	6	6	18	31460.3	31460.3	1.41%	1.08	0.25	1.33	16.67	74	10	18.00	TCHSLT
AAB0218_6-6	6	6	18	35196.2	35196.2	0.19%	1.05	0.40	1.45	6.49	52	7	7.95	TCHSLT
AAB0318_6-6	6	6	18	41165.9	41165.9	0.25%	1.08	0.52	1.60	7.81	60	8	9.41	TCHSLT
AAB0418_6-6	6	6	18	43206.1	43206.1	0.82%	1.67	0.58	2.25	21.01	46	6	23.27	TCHSLT
AAB0518_6-6	6	6	18	48829.8	48829.8	1.83%	0.94	0.32	1.27	11.02	38	5	12.29	TCHSLT
AAB0618_6-6	6	6	18	36245.4	36245.4	0.71%	0.84	0.30	1.14	13.87	60	8	15.01	TCHSLT
AAB0718_6-6	6	6	18	45591.7	45591.7	0.87%	1.19	0.40	1.60	6.93	38	5	8.53	TCHSLT
AAB0818_6-6	6	6	18	47605.9	47605.9	1.45%	1.20	0.42	1.62	26.62	58	8	28.25	TCHSLT
AAB0918_6-6	6	6	18	51809.1	51809.1	1.37%	1.26	0.42	1.68	36.10	60	8	37.79	TCHSLT
AAB006_6-12	12	6	6	21642.4	21642.4	1.90%	0.29	0.09	0.38	2.96	20	4	3.34	TCHSLT
AAB016_6-12	12	6	6	22212.1	22212.1	0.55%	0.34	0.21	0.55	10.91	20	4	11.46	TCHSLT
AAB026_6-12	12	6	6	21153.6	21153.6	0.44%	0.39	0.11	0.50	5.58	20	4	6.08	TCHSLT
AAB036_6-12	12	6	6	22195.0	22195.0	2.49%	0.31	0.16	0.47	3.26	20	4	3.73	TCHSLT
AAB046_6-12	12	6	6	19942.5	19942.5	1.32%	0.31	0.26	0.56	2.35	20	4	2.92	TCHSLT
AAB056_6-12	12	6	6	21644.4	21644.4	1.45%	0.27	0.08	0.35	6.64	25	5	6.99	TCHSLT
AAB066_6-12	12	6	6	19298.0	19298.0	2.27%	0.25	0.10	0.36	1.05	15	3	1.41	TCHSLT
AAB076_6-12	12	6	6	26179.1	26179.1	3.49%	0.36	0.19	0.55	9.34	20	4	9.89	TCHSLT
AAB086_6-12	12	6	6	22383.3	22383.3	1.38%	0.38	0.19	0.57	5.29	20	4	5.86	TCHSLT
AAB096_6-12	12	6	6	25560.2	25560.2	0.96%	0.41	0.13	0.54	5.34	20	4	5.89	TCHSLT
AAB0012_6-12	12	6	12	39378.7	39378.7	0.89%	0.69	0.31	1.00	38.28	58	10	39.28	TCHSLT
AAB0112_6-12	12	6	12	42156.9	42156.9	1.05%	0.87	0.52	1.39	12.81	62	11	14.20	TCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0212_6-12	12	6	12	40805.5	40805.5	2.18%	0.73	0.41	1.15	71.86	52	9	73.01	TCHSLT
AAB0312_6-12	12	6	12	43205.1	43205.1	0.98%	0.79	0.47	1.26	62.91	69	12	64.17	TCHSLT
AAB0412_6-12	12	6	12	38070.8	38070.8	0.90%	0.70	0.38	1.09	51.97	52	9	53.06	TCHSLT
AAB0512_6-12	12	6	12	44598.2	44598.2	1.70%	0.66	0.26	0.92	23.38	52	9	24.30	TCHSLT
AAB0612_6-12	12	6	12	36192.7	36192.7	0.76%	0.67	0.27	0.94	15.39	75	13	16.34	TCHSLT
AAB0712_6-12	12	6	12	51167.6	51167.6	1.66%	0.88	0.30	1.18	188.75	109	19	189.93	TCHSLT
AAB0812_6-12	12	6	12	42323.5	42323.5	1.26%	0.83	0.57	1.40	86.92	63	11	88.32	TCHSLT
AAB0912_6-12	12	6	12	45936.1	45936.1	0.90%	0.77	0.46	1.23	78.35	64	11	79.59	TCHSLT
AAB0018_6-12	12	6	18	59199.8	59199.8	1.35%	1.39	0.39	1.78	81.65	84	11	83.44	TCHSLT
AAB0118_6-12	12	6	18	64431.3	64431.3	0.82%	1.92	0.59	2.51	67.83	82	11	70.34	TCHSLT
AAB0218_6-12	12	6	18	59200.1	59200.1	1.66%	1.91	1.19	3.10	108.89	68	9	111.99	TCHSLT
AAB0318_6-12	12	6	18	60701.3	60701.3	1.29%	1.22	1.00	2.22	64.38	60	8	66.60	TCHSLT
AAB0418_6-12	12	6	18	54700.7	54700.7	0.89%	1.17	0.66	1.83	70.14	60	8	71.97	TCHSLT
AAB0518_6-12	12	6	18	66698.7	66698.7	2.06%	1.38	0.80	2.18	110.46	82	11	112.65	TCHSLT
AAB0618_6-12	12	6	18	56635.5	56635.5	1.18%	1.20	0.31	1.52	36.62	82	11	38.14	TCHSLT
AAB0718_6-12	12	6	18	73607.4	73607.4	1.98%	1.90	0.86	2.77	172.98	76	10	175.75	TCHSLT
AAB0818_6-12	12	6	18	62161.4	62161.4	2.23%	1.60	0.72	2.33	77.91	46	6	80.24	TCHSLT
AAB0918_6-12	12	6	18	67820.2	67820.2	0.85%	1.41	0.67	2.08	48.91	60	8	51.00	TCHSLT
AAB006_6-25	25	6	6	41935.4	41935.4	1.36%	0.56	0.25	0.81	30.39	20	4	31.20	TCHSLT
AAB016_6-25	25	6	6	41840.7	41840.7	1.68%	0.53	0.28	0.81	38.54	15	3	39.35	TCHSLT
AAB026_6-25	25	6	6	43953.7	43953.7	1.52%	0.81	0.15	0.96	52.01	25	5	52.98	TCHSLT
AAB036_6-25	25	6	6	43134.9	43134.9	1.97%	0.59	0.21	0.80	70.69	25	5	71.49	TCHSLT
AAB046_6-25	25	6	6	45596.2	45596.2	1.46%	0.73	0.21	0.94	63.64	25	5	64.58	TCHSLT
AAB056_6-25	25	6	6	42317.0	42317.0	1.33%	0.55	0.10	0.65	15.33	20	4	15.99	TCHSLT
AAB066_6-25	25	6	6	41079.5	41079.5	1.45%	0.60	0.26	0.86	38.41	25	5	39.27	TCHSLT
AAB076_6-25	25	6	6	44568.5	44568.5	1.24%	0.44	0.10	0.54	19.78	25	5	20.32	TCHSLT
AAB086_6-25	25	6	6	43515.2	43515.2	1.76%	0.57	0.14	0.71	53.42	25	5	54.14	TCHSLT
AAB096_6-25	25	6	6	45105.0	45105.0	3.04%	0.53	0.20	0.73	45.47	20	4	46.20	TCHSLT
AAB0012_6-25	25	6	12	79473.4	79473.4	1.28%	1.52	0.39	1.92	245.89	104	18	247.81	TCHSLT
AAB0112_6-25	25	6	12	82807.6	82807.6	1.87%	1.32	0.77	2.09	91.08	29	5	93.17	TCHSLT
AAB0212_6-25	25	6	12	82693.3	82693.3	1.52%	1.41	0.71	2.13	234.79	86	15	236.92	TCHSLT
AAB0312_6-25	25	6	12	80825.6	80825.6	1.72%	1.47	0.41	1.88	247.12	69	12	249.00	TCHSLT
AAB0412_6-25	25	6	12	84444.8	84444.8	1.96%	1.65	0.58	2.23	508.22	127	22	510.45	TCHSLT
AAB0512_6-25	25	6	12	79279.1	79279.1	1.12%	1.29	0.48	1.78	93.35	46	8	95.13	TCHSLT
AAB0612_6-25	25	6	12	77227.3	77227.3	1.44%	1.20	0.58	1.78	189.80	64	11	191.59	TCHSLT
AAB0712_6-25	25	6	12	79734.2	79734.2	0.76%	1.03	0.38	1.42	78.55	75	13	79.97	TCHSLT
AAB0812_6-25	25	6	12	78835.2	78835.2	1.36%	1.35	0.44	1.80	193.85	93	16	195.65	TCHSLT
AAB0912_6-25	25	6	12	85379.3	85379.3	1.16%	1.15	0.47	1.62	156.31	58	10	157.93	TCHSLT
AAB0018_6-25	25	6	18	115521.3	115733.5	1.45%	2.42	2.84	5.27	600.01	127	17	605.28	TCHSLT
AAB0118_6-25	25	6	18	121202.0	121202.0	1.51%	2.61	1.99	4.61	367.96	98	13	372.57	TCHSLT
AAB0218_6-25	25	6	18	124012.4	124012.4	1.42%	3.10	1.51	4.61	582.44	152	20	587.05	TCHSLT
AAB0318_6-25	25	6	18	120719.4	120719.4	1.70%	2.74	0.82	3.57	507.95	76	10	511.53	TCHSLT
AAB0418_6-25	25	6	18	125356.9	125356.9	1.84%	2.82	1.36	4.18	366.55	70	9	370.74	TCHSLT
AAB0518_6-25	25	6	18	121407.7	121407.7	1.68%	1.90	1.37	3.27	298.80	92	12	302.07	TCHSLT
AAB0618_6-25	25	6	18	112805.7	112805.7	1.47%	2.09	1.18	3.27	381.94	98	13	385.21	TCHSLT
AAB0718_6-25	25	6	18	118065.8	118065.8	1.24%	2.05	0.87	2.93	153.73	60	8	156.67	TCHSLT
AAB0818_6-25	25	6	18	113776.3	113776.3	1.80%	2.00	0.89	2.89	301.85	98	13	304.76	TCHSLT
AAB0918_6-25	25	6	18	126460.3	126460.3	1.48%	2.66	1.30	3.97	165.21	46	6	169.19	TCHSLT
AAB006_6-50	50	6	6	77265.4	77265.4	1.03%	1.08	0.36	1.44	77.86	20	4	79.31	TCHSLT
AAB016_6-50	50	6	6	80437.6	80437.6	0.76%	0.96	0.38	1.34	74.15	20	4	75.49	TCHSLT
AAB026_6-50	50	6	6	83199.2	83199.2	0.75%	0.99	0.36	1.36	134.53	35	7	135.89	TCHSLT
AAB036_6-50	50	6	6	80881.3	80881.3	0.86%	0.95	0.25	1.21	96.14	25	5	97.36	TCHSLT
AAB046_6-50	50	6	6	84451.0	84451.0	1.16%	1.09	0.38	1.47	108.13	25	5	109.61	TCHSLT
AAB056_6-50	50	6	6	84834.9	84834.9	0.91%	1.03	0.33	1.36	82.25	20	4	83.62	TCHSLT
AAB066_6-50	50	6	6	81033.5	81033.5	0.66%	1.28	0.57	1.85	129.83	30	6	131.69	TCHSLT
AAB076_6-50	50	6	6	83500.6	83500.6	0.46%	0.86	0.54	1.40	52.33	25	5	53.74	TCHSLT
AAB086_6-50	50	6	6	79786.5	79786.5	0.54%	0.88	0.39	1.27	73.86	20	4	75.13	TCHSLT
AAB096_6-50	50	6	6	81315.4	81315.4	1.48%	1.05	0.29	1.35	56.70	15	3	58.05	TCHSLT
AAB0012_6-50	50	6	12	148892.1	148892.1	0.77%	1.91	1.40	3.31	406.57	99	17	409.89	TCHSLT
AAB0112_6-50	50	6	12	151524.1	151524.1	0.69%	2.04	0.81	2.86	388.73	93	16	391.59	TCHSLT
AAB0212_6-50	50	6	12	156843.4	156843.4	0.92%	2.09	1.69	3.78	411.75	76	13	415.53	TCHSLT
AAB0312_6-50	50	6	12	155053.3	155053.3	0.90%	2.34	0.86	3.21	340.31	70	12	343.52	TCHSLT
AAB0412_6-50	50	6	12	162944.6	162944.6	1.10%	2.46	1.48	3.94	263.18	58	10	267.12	TCHSLT
AAB0512_6-50	50	6	12	161484.9	161484.9	1.46%	2.51	1.30	3.81	357.61	69	12	361.43	TCHSLT
AAB0612_6-50	50	6	12	151555.0	152179.1	1.40%	2.39	1.62	4.01	600.02	96	17	604.04	TCHSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0712_6-50	50	6	12	159038.7	159038.7	0.77%	1.84	1.17	3.02	308.42	69	12	311.45	TCHSLT
AAB0812_6-50	50	6	12	146463.3	146463.3	0.87%	2.49	2.01	4.51	259.82	75	13	264.33	TCHSLT
AAB0912_6-50	50	6	12	154422.5	154422.5	0.80%	1.91	0.55	2.46	297.31	69	12	299.78	TCHSLT
AAB0018_6-50	50	6	18	219092.8	219208.4	0.72%	4.06	2.18	6.25	600.03	117	16	606.28	TCHSLT
AAB0118_6-50	50	6	18	221967.1	222164.8	0.68%	4.04	3.13	7.18	600.02	132	18	607.23	TCHSLT
AAB0218_6-50	50	6	18	228460.7	228803.5	1.10%	4.06	3.58	7.65	600.03	91	12	607.68	TCHSLT
AAB0318_6-50	50	6	18	228968.3	228990.4	0.69%	3.93	1.13	5.07	600.02	96	13	605.10	TCHSLT
AAB0418_6-50	50	6	18	239885.9	241233.5	1.04%	6.17	4.62	10.84	600.04	73	10	610.89	TCHSLT
AAB0518_6-50	50	6	18	231203.5	231209.7	1.29%	4.27	1.51	5.79	600.04	90	12	605.84	TCHSLT
AAB0618_6-50	50	6	18	224559.3	224995.0	1.27%	5.30	2.80	8.11	600.03	68	9	608.15	TCHSLT
AAB0718_6-50	50	6	18	231891.2	232742.4	0.70%	3.16	2.70	5.86	600.04	107	15	605.91	TCHSLT
AAB0818_6-50	50	6	18	218747.8	219038.4	0.96%	3.86	2.50	6.37	600.03	80	11	606.41	TCHSLT
AAB0918_6-50	50	6	18	226635.9	227269.3	0.74%	4.25	2.18	6.44	600.04	104	14	606.49	TCHSLT
ABA006_2-6	6	2	6	8174.3	8174.3	0.00%	0.09	0.02	0.11	0.44	15	3	0.55	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%	0.10	0.01	0.11	0.38	25	5	0.49	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%	0.08	0.01	0.10	0.17	10	2	0.27	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%	0.09	0.02	0.11	0.27	15	3	0.38	TCLSHT
ABA046_2-6	6	2	6	7928.2	7928.2	0.14%	0.10	0.02	0.12	0.62	20	4	0.74	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%	0.07	0.02	0.08	0.16	15	3	0.25	TCLSHT
ABA066_2-6	6	2	6	8097.5	8097.5	0.54%	0.08	0.02	0.10	0.31	15	3	0.41	TCLSHT
ABA076_2-6	6	2	6	9140.0	9140.0	0.12%	0.09	0.02	0.11	0.41	20	4	0.51	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%	0.09	0.01	0.10	0.06	5	1	0.16	TCLSHT
ABA096_2-6	6	2	6	7104.4	7104.4	0.00%	0.06	0.02	0.09	0.12	15	3	0.20	TCLSHT
ABA0012_2-6	6	2	12	15598.3	15598.3	0.00%	0.18	0.07	0.25	2.82	40	7	3.07	TCLSHT
ABA0112_2-6	6	2	12	13424.2	13424.2	0.03%	0.20	0.03	0.22	0.83	23	4	1.05	TCLSHT
ABA0212_2-6	6	2	12	14724.3	14724.3	0.00%	0.21	0.04	0.25	1.45	28	5	1.70	TCLSHT
ABA0412_2-6	6	2	12	13850.3	13850.3	0.13%	0.30	0.03	0.33	3.76	46	8	4.09	TCLSHT
ABA0512_2-6	6	2	12	17403.2	17403.2	0.02%	0.16	0.03	0.19	0.72	23	4	0.91	TCLSHT
ABA0612_2-6	6	2	12	14950.6	14950.6	0.04%	0.11	0.03	0.14	0.76	23	4	0.91	TCLSHT
ABA0712_2-6	6	2	12	16617.9	16617.9	0.00%	0.21	0.03	0.24	1.25	34	6	1.49	TCLSHT
ABA0812_2-6	6	2	12	14158.1	14158.1	0.00%	0.13	0.03	0.17	1.18	34	6	1.34	TCLSHT
ABA0912_2-6	6	2	12	16127.2	16127.2	0.02%	0.11	0.02	0.13	0.62	23	4	0.75	TCLSHT
ABA0018_2-6	6	2	18	21818.2	21818.2	0.31%	0.46	0.03	0.49	9.14	52	7	9.64	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%	0.33	0.05	0.38	1.04	30	4	1.42	TCLSHT
ABA0218_2-6	6	2	18	22480.4	22480.4	0.05%	0.36	0.04	0.41	3.12	52	7	3.52	TCLSHT
ABA0418_2-6	6	2	18	20185.1	20185.1	0.05%	0.43	0.05	0.48	4.12	38	5	4.60	TCLSHT
ABA0518_2-6	6	2	18	25054.5	25054.5	0.00%	0.18	0.03	0.21	2.48	44	6	2.70	TCLSHT
ABA0618_2-6	6	2	18	22830.4	22830.4	0.11%	0.38	0.03	0.42	3.67	52	7	4.09	TCLSHT
ABA0718_2-6	6	2	18	24375.4	24375.4	0.00%	0.49	0.05	0.54	4.65	52	7	5.20	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%	0.28	0.04	0.32	3.22	46	6	3.54	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%	0.25	0.03	0.28	1.85	44	6	2.13	TCLSHT
ABA006_2-12	12	2	6	12675.6	12675.6	0.00%	0.11	0.03	0.14	0.25	15	3	0.39	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%	0.15	0.02	0.17	0.22	10	2	0.40	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%	0.14	0.02	0.16	0.28	15	3	0.44	TCLSHT
ABA036_2-12	12	2	6	16340.9	16340.9	0.00%	0.11	0.03	0.15	0.34	20	4	0.49	TCLSHT
ABA046_2-12	12	2	6	14200.4	14200.4	0.00%	0.14	0.01	0.15	0.17	10	2	0.32	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%	0.11	0.03	0.14	0.29	10	2	0.43	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%	0.10	0.02	0.13	0.32	15	3	0.45	TCLSHT
ABA076_2-12	12	2	6	15411.5	15411.5	0.05%	0.10	0.03	0.13	0.17	10	2	0.30	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%	0.13	0.03	0.15	0.46	15	3	0.62	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%	0.16	0.02	0.19	0.53	15	3	0.71	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%	0.17	0.03	0.21	1.13	29	5	1.34	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%	0.24	0.05	0.29	1.09	23	4	1.39	TCLSHT
ABA0212_2-12	12	2	12	27198.4	27198.4	0.03%	0.31	0.03	0.34	3.14	40	7	3.48	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%	0.25	0.03	0.28	2.14	40	7	2.43	TCLSHT
ABA0412_2-12	12	2	12	28313.2	28313.2	0.01%	0.25	0.03	0.29	3.36	40	7	3.65	TCLSHT
ABA0512_2-12	12	2	12	32081.3	32081.3	0.00%	0.23	0.03	0.26	2.11	46	8	2.37	TCLSHT
ABA0612_2-12	12	2	12	27236.8	27236.8	0.00%	0.20	0.06	0.27	1.11	23	4	1.37	TCLSHT
ABA0712_2-12	12	2	12	30388.6	30388.6	0.01%	0.19	0.03	0.22	1.71	23	4	1.93	TCLSHT
ABA0812_2-12	12	2	12	26674.7	26674.7	0.00%	0.27	0.03	0.31	2.78	45	8	3.08	TCLSHT
ABA0912_2-12	12	2	12	31075.1	31075.1	0.07%	0.30	0.03	0.34	7.88	40	7	8.22	TCLSHT
ABA0118_2-12	12	2	18	40447.3	40447.3	0.00%	0.84	0.06	0.90	5.04	44	6	5.94	TCLSHT
ABA0218_2-12	12	2	18	41722.8	41722.8	0.07%	0.80	0.06	0.87	9.84	22	3	10.70	TCLSHT
ABA0318_2-12	12	2	18	46256.9	46256.9	0.00%	0.44	0.04	0.49	7.75	44	6	8.23	TCLSHT
ABA0418_2-12	12	2	18	44169.3	44169.3	0.00%	0.36	0.05	0.41	4.80	44	6	5.21	TCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0518_2-12	12	2	18	47321.1	47321.1	0.00%	0.36	0.08	0.44	7.22	60	8	7.66	TCLSHT
ABA0618_2-12	12	2	18	40625.0	40625.0	0.00%	0.54	0.05	0.59	5.01	58	8	5.61	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%	0.27	0.06	0.33	3.31	38	5	3.63	TCLSHT
ABA0818_2-12	12	2	18	41316.5	41316.5	0.00%	0.53	0.07	0.60	4.07	30	4	4.68	TCLSHT
ABA0918_2-12	12	2	18	47349.4	47349.4	0.23%	0.56	0.06	0.62	17.10	22	3	17.72	TCLSHT
ABA006_2-25	25	2	6	29198.3	29198.3	0.02%	0.15	0.03	0.19	0.31	10	2	0.50	TCLSHT
ABA016_2-25	25	2	6	29917.1	29917.1	0.09%	0.21	0.02	0.23	0.62	10	2	0.85	TCLSHT
ABA026_2-25	25	2	6	28603.7	28603.7	0.09%	0.20	0.04	0.24	0.68	10	2	0.92	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%	0.18	0.05	0.23	0.50	15	3	0.73	TCLSHT
ABA046_2-25	25	2	6	31420.9	31420.9	0.03%	0.28	0.05	0.33	1.18	15	3	1.51	TCLSHT
ABA056_2-25	25	2	6	31510.0	31510.0	0.00%	0.26	0.04	0.29	0.63	10	2	0.92	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%	0.12	0.02	0.14	0.19	10	2	0.33	TCLSHT
ABA076_2-25	25	2	6	31327.3	31327.3	0.03%	0.20	0.04	0.24	0.78	15	3	1.03	TCLSHT
ABA086_2-25	25	2	6	32154.1	32154.1	0.01%	0.21	0.06	0.27	1.28	15	3	1.55	TCLSHT
ABA096_2-25	25	2	6	33239.4	33239.4	0.06%	0.21	0.03	0.25	0.68	10	2	0.93	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%	0.31	0.09	0.40	2.04	23	4	2.45	TCLSHT
ABA0112_2-25	25	2	12	60926.9	60926.9	0.00%	0.36	0.05	0.40	9.13	57	10	9.53	TCLSHT
ABA0212_2-25	25	2	12	56234.7	56234.7	0.01%	0.74	0.05	0.79	7.64	57	10	8.44	TCLSHT
ABA0312_2-25	25	2	12	59204.3	59204.3	0.03%	0.41	0.06	0.47	18.23	57	10	18.71	TCLSHT
ABA0412_2-25	25	2	12	59680.1	59680.1	0.01%	0.45	0.05	0.50	8.53	51	9	9.03	TCLSHT
ABA0512_2-25	25	2	12	65019.4	65019.4	0.07%	0.53	0.07	0.60	19.80	40	7	20.41	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%	0.15	0.04	0.19	0.80	17	3	0.99	TCLSHT
ABA0712_2-25	25	2	12	62772.8	62772.8	0.03%	0.53	0.05	0.58	3.73	17	3	4.32	TCLSHT
ABA0812_2-25	25	2	12	62874.4	62874.4	0.01%	0.55	0.04	0.59	32.62	52	9	33.21	TCLSHT
ABA0912_2-25	25	2	12	63985.5	63985.5	0.01%	0.39	0.06	0.45	7.99	34	6	8.45	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%	0.38	0.07	0.45	1.45	22	3	1.91	TCLSHT
ABA0118_2-25	25	2	18	88583.6	88583.6	0.00%	0.72	0.11	0.82	8.90	30	4	9.73	TCLSHT
ABA0218_2-25	25	2	18	83280.3	83280.3	0.06%	1.04	0.07	1.11	12.89	30	4	14.00	TCLSHT
ABA0318_2-25	25	2	18	91361.4	91361.4	0.03%	0.53	0.06	0.59	18.30	38	5	18.89	TCLSHT
ABA0418_2-25	25	2	18	90593.3	90593.3	0.00%	0.69	0.07	0.77	7.62	22	3	8.38	TCLSHT
ABA0518_2-25	25	2	18	95118.0	95118.0	0.11%	0.92	0.14	1.06	52.96	30	4	54.02	TCLSHT
ABA0618_2-25	25	2	18	83556.7	83556.7	0.02%	0.30	0.08	0.38	3.16	30	4	3.54	TCLSHT
ABA0718_2-25	25	2	18	92162.0	92162.0	0.02%	1.07	0.07	1.15	9.83	22	3	10.98	TCLSHT
ABA0818_2-25	25	2	18	91544.0	91544.0	0.09%	1.22	0.14	1.36	35.24	30	4	36.60	TCLSHT
ABA0918_2-25	25	2	18	93150.7	93150.7	0.01%	0.62	0.07	0.70	13.62	44	6	14.31	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%	0.26	0.04	0.29	0.71	10	2	1.01	TCLSHT
ABA016_2-50	50	2	6	60308.0	60308.0	0.01%	0.27	0.07	0.34	0.83	15	3	1.18	TCLSHT
ABA026_2-50	50	2	6	56150.4	56150.4	0.02%	0.40	0.06	0.46	2.52	15	3	2.98	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%	0.33	0.04	0.36	0.92	15	3	1.29	TCLSHT
ABA046_2-50	50	2	6	60915.0	60915.0	0.05%	0.42	0.05	0.47	2.10	10	2	2.57	TCLSHT
ABA056_2-50	50	2	6	59362.1	59362.1	0.03%	0.31	0.03	0.34	1.38	15	3	1.72	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%	0.34	0.07	0.41	1.27	15	3	1.68	TCLSHT
ABA076_2-50	50	2	6	58961.9	58961.9	0.01%	0.31	0.05	0.37	1.88	10	2	2.25	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%	0.34	0.06	0.40	1.33	15	3	1.73	TCLSHT
ABA096_2-50	50	2	6	60666.9	60666.9	0.00%	0.33	0.03	0.37	0.81	10	2	1.18	TCLSHT
ABA0012_2-50	50	2	12	117314.5	117314.5	0.00%	0.43	0.10	0.54	3.25	29	5	3.80	TCLSHT
ABA0112_2-50	50	2	12	119907.3	119907.3	0.02%	0.51	0.13	0.63	5.32	29	5	5.96	TCLSHT
ABA0212_2-50	50	2	12	114060.9	114060.9	0.00%	0.92	0.09	1.02	17.67	34	6	18.69	TCLSHT
ABA0312_2-50	50	2	12	119956.5	119956.5	0.02%	0.62	0.09	0.71	3.68	17	3	4.39	TCLSHT
ABA0412_2-50	50	2	12	122229.7	122229.7	0.02%	0.88	0.09	0.97	13.18	17	3	14.15	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%	0.41	0.09	0.50	2.52	17	3	3.03	TCLSHT
ABA0612_2-50	50	2	12	113641.0	113641.0	0.00%	0.40	0.15	0.56	5.34	51	9	5.90	TCLSHT
ABA0712_2-50	50	2	12	114716.8	114716.8	0.00%	0.82	0.07	0.90	19.78	28	5	20.67	TCLSHT
ABA0812_2-50	50	2	12	115416.9	115416.9	0.01%	0.62	0.09	0.71	24.15	51	9	24.86	TCLSHT
ABA0912_2-50	50	2	12	122425.8	122425.8	0.00%	0.55	0.07	0.62	9.13	40	7	9.75	TCLSHT
ABA0018_2-50	50	2	18	175781.2	175781.2	0.00%	0.60	0.16	0.77	4.44	22	3	5.21	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%	0.57	0.13	0.70	5.39	30	4	6.09	TCLSHT
ABA0218_2-50	50	2	18	169735.9	169735.9	0.01%	1.37	0.17	1.55	12.23	30	4	13.78	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%	0.73	0.10	0.83	6.56	22	3	7.39	TCLSHT
ABA0418_2-50	50	2	18	182029.9	182029.9	0.06%	1.56	0.44	2.00	144.68	54	7	146.68	TCLSHT
ABA0518_2-50	50	2	18	181078.3	181078.3	0.00%	0.89	0.17	1.06	22.39	44	6	23.45	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%	0.92	0.08	1.00	8.52	38	5	9.52	TCLSHT
ABA0718_2-50	50	2	18	172462.2	172462.2	0.00%	0.81	0.17	0.99	11.37	30	4	12.36	TCLSHT
ABA0818_2-50	50	2	18	173619.2	173619.2	0.02%	1.39	0.10	1.49	22.55	44	6	24.04	TCLSHT
ABA0918_2-50	50	2	18	182988.0	182988.0	0.02%	1.26	0.17	1.44	21.94	30	4	23.38	TCLSHT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%	0.12	0.04	0.16	0.43	20	4	0.59	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%	0.14	0.06	0.20	0.96	20	4	1.16	TCLSHT
ABA026_4-6	6	4	6	7336.3	7336.3	0.03%	0.13	0.03	0.16	0.37	15	3	0.53	TCLSHT
ABA036_4-6	6	4	6	6716.7	6716.7	0.25%	0.13	0.04	0.17	0.48	20	4	0.65	TCLSHT
ABA046_4-6	6	4	6	5570.7	5570.7	0.31%	0.09	0.03	0.12	0.30	15	3	0.42	TCLSHT
ABA056_4-6	6	4	6	7908.4	7908.4	0.01%	0.18	0.05	0.23	1.68	20	4	1.91	TCLSHT
ABA066_4-6	6	4	6	6397.3	6397.3	0.47%	0.13	0.04	0.17	0.23	10	2	0.40	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%	0.09	0.03	0.12	0.13	10	2	0.25	TCLSHT
ABA086_4-6	6	4	6	5858.9	5858.9	0.00%	0.13	0.03	0.16	0.34	15	3	0.50	TCLSHT
ABA096_4-6	6	4	6	8598.5	8598.5	0.54%	0.12	0.02	0.14	0.47	15	3	0.62	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%	0.20	0.04	0.24	0.65	23	4	0.89	TCLSHT
ABA0112_4-6	6	4	12	15268.3	15268.3	0.00%	0.32	0.10	0.42	10.25	68	12	10.68	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%	0.37	0.06	0.43	1.73	29	5	2.15	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%	0.29	0.07	0.37	1.77	34	6	2.14	TCLSHT
ABA0412_4-6	6	4	12	12869.8	12869.8	0.04%	0.35	0.07	0.42	5.08	35	6	5.50	TCLSHT
ABA0512_4-6	6	4	12	15827.1	15827.1	0.07%	0.33	0.07	0.40	12.58	51	9	12.97	TCLSHT
ABA0612_4-6	6	4	12	12744.8	12744.8	0.00%	0.35	0.06	0.41	1.31	34	6	1.73	TCLSHT
ABA0712_4-6	6	4	12	14690.0	14690.0	0.03%	0.28	0.05	0.33	1.33	29	5	1.66	TCLSHT
ABA0812_4-6	6	4	12	12361.3	12361.3	0.00%	0.32	0.08	0.40	2.02	29	5	2.42	TCLSHT
ABA0912_4-6	6	4	12	14845.8	14845.8	0.00%	0.42	0.04	0.47	0.87	23	4	1.33	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%	0.86	0.09	0.96	7.27	68	9	8.23	TCLSHT
ABA0118_4-6	6	4	18	21741.5	21741.5	0.04%	0.78	0.16	0.95	12.57	66	9	13.52	TCLSHT
ABA0218_4-6	6	4	18	21432.5	21432.5	0.00%	0.68	0.09	0.77	6.24	52	7	7.01	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%	0.68	0.09	0.77	4.47	44	6	5.24	TCLSHT
ABA0418_4-6	6	4	18	19960.4	19960.4	0.13%	0.61	0.07	0.68	7.83	52	7	8.50	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.10%	0.69	0.09	0.78	23.70	46	6	24.49	TCLSHT
ABA0618_4-6	6	4	18	19767.0	19767.0	0.00%	0.86	0.14	1.00	5.91	44	6	6.90	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%	0.68	0.05	0.73	2.85	38	5	3.58	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%	0.51	0.06	0.57	3.68	44	6	4.25	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%	0.72	0.07	0.79	2.25	30	4	3.05	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%	0.18	0.03	0.22	0.62	10	2	0.84	TCLSHT
ABA016_4-12	12	4	6	15440.0	15440.0	0.00%	0.27	0.04	0.31	2.05	15	3	2.36	TCLSHT
ABA026_4-12	12	4	6	13157.6	13157.6	0.00%	0.13	0.03	0.15	0.56	15	3	0.71	TCLSHT
ABA036_4-12	12	4	6	12343.4	12343.4	0.02%	0.22	0.05	0.27	1.31	15	3	1.59	TCLSHT
ABA046_4-12	12	4	6	14388.0	14388.0	0.08%	0.18	0.04	0.22	0.62	15	3	0.84	TCLSHT
ABA056_4-12	12	4	6	14190.5	14190.5	0.05%	0.14	0.03	0.18	1.20	10	2	1.38	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%	0.16	0.04	0.20	0.22	10	2	0.43	TCLSHT
ABA076_4-12	12	4	6	12495.8	12495.8	0.12%	0.19	0.05	0.24	0.50	10	2	0.74	TCLSHT
ABA086_4-12	12	4	6	14701.0	14701.0	0.01%	0.16	0.03	0.19	0.73	15	3	0.92	TCLSHT
ABA096_4-12	12	4	6	13305.7	13305.7	0.26%	0.18	0.04	0.22	2.42	15	3	2.65	TCLSHT
ABA0012_4-12	12	4	12	24759.9	24759.9	0.02%	0.36	0.12	0.49	6.90	35	6	7.38	TCLSHT
ABA0112_4-12	12	4	12	28648.3	28648.3	0.14%	0.77	0.08	0.85	16.73	40	7	17.59	TCLSHT
ABA0212_4-12	12	4	12	26526.1	26526.1	0.00%	0.42	0.09	0.52	8.69	57	10	9.20	TCLSHT
ABA0312_4-12	12	4	12	25463.3	25463.3	0.00%	0.37	0.06	0.43	6.89	51	9	7.32	TCLSHT
ABA0412_4-12	12	4	12	27373.1	27373.1	0.02%	0.42	0.06	0.48	4.50	29	5	4.98	TCLSHT
ABA0512_4-12	12	4	12	27924.4	27924.4	0.00%	0.38	0.09	0.47	12.15	46	8	12.62	TCLSHT
ABA0612_4-12	12	4	12	24615.2	24615.2	0.00%	0.19	0.07	0.26	2.45	39	7	2.71	TCLSHT
ABA0712_4-12	12	4	12	26355.3	26355.3	0.00%	0.43	0.08	0.51	10.70	40	7	11.21	TCLSHT
ABA0812_4-12	12	4	12	28141.0	28141.0	0.00%	0.47	0.04	0.51	4.16	40	7	4.67	TCLSHT
ABA0912_4-12	12	4	12	28635.0	28635.0	0.15%	0.51	0.10	0.61	42.46	69	12	43.07	TCLSHT
ABA0018_4-12	12	4	18	38443.7	38443.7	0.21%	0.75	0.11	0.86	45.36	30	4	46.22	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.27%	1.59	0.32	1.92	101.59	52	7	103.51	TCLSHT
ABA0218_4-12	12	4	18	39454.4	39454.4	0.00%	0.55	0.08	0.63	12.67	38	5	13.31	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.01%	0.81	0.08	0.89	12.53	30	4	13.43	TCLSHT
ABA0418_4-12	12	4	18	40766.3	40766.3	0.00%	0.70	0.10	0.79	15.46	38	5	16.26	TCLSHT
ABA0518_4-12	12	4	18	41139.8	41139.8	0.04%	0.53	0.19	0.73	6.58	22	3	7.31	TCLSHT
ABA0618_4-12	12	4	18	37160.0	37160.0	0.00%	0.46	0.06	0.52	4.35	44	6	4.88	TCLSHT
ABA0718_4-12	12	4	18	41278.9	41278.9	0.11%	0.67	0.13	0.80	45.69	60	8	46.48	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%	0.95	0.08	1.03	7.08	30	4	8.11	TCLSHT
ABA0918_4-12	12	4	18	41702.9	41702.9	0.23%	0.93	0.19	1.13	55.24	38	5	56.37	TCLSHT
ABA006_4-25	25	4	6	25598.9	25598.9	0.00%	0.30	0.04	0.35	2.48	20	4	2.83	TCLSHT
ABA016_4-25	25	4	6	29516.4	29516.4	0.06%	0.24	0.05	0.29	1.53	15	3	1.83	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%	0.36	0.04	0.40	3.33	15	3	3.73	TCLSHT
ABA036_4-25	25	4	6	26044.5	26044.5	0.04%	0.27	0.06	0.34	4.92	20	4	5.26	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%	0.18	0.04	0.22	0.54	10	2	0.77	TCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA056_4-25	25	4	6	30191.7	30191.7	0.09%	0.26	0.06	0.32	1.67	15	3	1.99	TCLSHT
ABA066_4-25	25	4	6	25382.8	25382.8	0.02%	0.24	0.03	0.28	0.88	15	3	1.16	TCLSHT
ABA076_4-25	25	4	6	27079.5	27079.5	0.04%	0.36	0.04	0.40	2.26	10	2	2.66	TCLSHT
ABA086_4-25	25	4	6	26279.4	26279.4	0.06%	0.26	0.04	0.30	0.96	15	3	1.26	TCLSHT
ABA096_4-25	25	4	6	27977.3	27977.3	0.07%	0.32	0.03	0.35	2.92	15	3	3.27	TCLSHT
ABA0012_4-25	25	4	12	53757.1	53757.1	0.04%	0.98	0.16	1.14	22.97	29	5	24.12	TCLSHT
ABA0112_4-25	25	4	12	56367.7	56367.7	0.00%	0.50	0.08	0.59	6.87	34	6	7.47	TCLSHT
ABA0212_4-25	25	4	12	53336.5	53336.5	0.06%	0.56	0.09	0.66	30.45	35	6	31.11	TCLSHT
ABA0312_4-25	25	4	12	54115.3	54115.3	0.00%	0.77	0.19	0.96	11.37	17	3	12.33	TCLSHT
ABA0412_4-25	25	4	12	54964.8	54964.8	0.00%	0.46	0.10	0.56	6.67	40	7	7.23	TCLSHT
ABA0512_4-25	25	4	12	57158.7	57158.7	0.05%	0.38	0.10	0.49	19.09	34	6	19.58	TCLSHT
ABA0612_4-25	25	4	12	50717.9	50717.9	0.01%	0.30	0.08	0.38	4.42	28	5	4.81	TCLSHT
ABA0712_4-25	25	4	12	55600.3	55600.3	0.09%	0.70	0.10	0.80	24.42	17	3	25.22	TCLSHT
ABA0812_4-25	25	4	12	54116.9	54116.9	0.00%	0.52	0.08	0.61	6.61	17	3	7.22	TCLSHT
ABA0912_4-25	25	4	12	54983.4	54983.4	0.13%	0.74	0.11	0.85	36.45	23	4	37.30	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.05%	1.66	0.16	1.82	35.93	30	4	37.76	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%	0.95	0.14	1.09	13.08	30	4	14.17	TCLSHT
ABA0218_4-25	25	4	18	80988.5	80988.5	0.08%	0.88	0.10	0.98	104.83	52	7	105.81	TCLSHT
ABA0318_4-25	25	4	18	80507.0	80507.0	0.05%	1.16	0.09	1.26	25.86	30	4	27.13	TCLSHT
ABA0418_4-25	25	4	18	83335.2	83335.2	0.00%	0.65	0.09	0.75	4.48	30	4	5.23	TCLSHT
ABA0518_4-25	25	4	18	84467.9	84467.9	0.08%	0.86	0.26	1.12	31.33	30	4	32.46	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%	0.71	0.12	0.84	9.92	52	7	10.76	TCLSHT
ABA0718_4-25	25	4	18	82723.4	82723.4	0.12%	1.58	0.20	1.78	84.67	36	5	86.45	TCLSHT
ABA0818_4-25	25	4	18	78520.8	78520.8	0.00%	1.16	0.10	1.26	9.25	22	3	10.51	TCLSHT
ABA0918_4-25	25	4	18	82442.8	82442.8	0.07%	1.33	0.10	1.43	63.14	38	5	64.57	TCLSHT
ABA006_4-50	50	4	6	54643.6	54643.6	0.00%	0.42	0.05	0.48	1.89	20	4	2.37	TCLSHT
ABA016_4-50	50	4	6	55415.2	55415.2	0.02%	0.44	0.06	0.50	1.98	20	4	2.48	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%	0.41	0.09	0.50	1.41	10	2	1.91	TCLSHT
ABA036_4-50	50	4	6	55308.7	55308.7	0.08%	0.49	0.09	0.59	5.34	15	3	5.93	TCLSHT
ABA046_4-50	50	4	6	56931.4	56931.4	0.03%	0.54	0.07	0.62	8.01	10	2	8.63	TCLSHT
ABA056_4-50	50	4	6	57385.4	57385.4	0.01%	0.34	0.08	0.41	1.77	10	2	2.19	TCLSHT
ABA066_4-50	50	4	6	52880.3	52880.3	0.02%	0.37	0.10	0.47	1.94	10	2	2.42	TCLSHT
ABA076_4-50	50	4	6	51697.5	51697.5	0.03%	0.46	0.28	0.74	4.19	15	3	4.93	TCLSHT
ABA086_4-50	50	4	6	52932.3	52932.3	0.02%	0.37	0.10	0.47	2.95	10	2	3.43	TCLSHT
ABA096_4-50	50	4	6	60180.8	60180.8	0.03%	0.43	0.07	0.50	4.08	15	3	4.58	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.02%	0.99	0.11	1.11	34.52	29	5	35.63	TCLSHT
ABA0112_4-50	50	4	12	108464.7	108464.7	0.00%	0.72	0.14	0.86	9.46	40	7	10.32	TCLSHT
ABA0212_4-50	50	4	12	108019.1	108019.1	0.00%	1.00	0.11	1.11	25.18	63	11	26.30	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.02%	0.95	0.11	1.06	18.73	28	5	19.79	TCLSHT
ABA0412_4-50	50	4	12	109700.4	109700.4	0.04%	1.06	0.25	1.32	64.02	34	6	65.34	TCLSHT
ABA0512_4-50	50	4	12	112015.9	112015.9	0.00%	0.59	0.08	0.67	6.86	34	6	7.55	TCLSHT
ABA0612_4-50	50	4	12	104015.9	104015.9	0.00%	0.74	0.10	0.85	5.49	34	6	6.34	TCLSHT
ABA0712_4-50	50	4	12	106635.9	106635.9	0.04%	1.06	0.14	1.20	30.62	23	4	31.83	TCLSHT
ABA0812_4-50	50	4	12	106535.1	106535.1	0.02%	0.53	0.16	0.70	10.52	46	8	11.22	TCLSHT
ABA0912_4-50	50	4	12	114383.6	114383.6	0.00%	0.88	0.11	1.00	25.72	40	7	26.73	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%	1.71	0.24	1.95	47.17	44	6	49.13	TCLSHT
ABA0118_4-50	50	4	18	161812.6	161812.6	0.00%	1.30	0.19	1.50	26.36	52	7	27.86	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%	1.70	0.20	1.90	35.30	36	5	37.21	TCLSHT
ABA0318_4-50	50	4	18	163387.8	163387.8	0.05%	2.00	0.20	2.20	93.67	52	7	95.88	TCLSHT
ABA0418_4-50	50	4	18	166569.9	166569.9	0.05%	2.12	0.33	2.46	176.17	68	9	178.63	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%	1.04	0.21	1.25	13.54	30	4	14.80	TCLSHT
ABA0618_4-50	50	4	18	156358.4	156358.4	0.00%	1.30	0.25	1.56	27.65	52	7	29.21	TCLSHT
ABA0718_4-50	50	4	18	161780.6	161780.6	0.06%	2.10	0.19	2.30	92.32	38	5	94.62	TCLSHT
ABA0818_4-50	50	4	18	157354.6	157354.6	0.00%	1.12	0.24	1.37	8.34	30	4	9.72	TCLSHT
ABA0918_4-50	50	4	18	168526.1	168526.1	0.00%	1.19	0.16	1.36	14.25	22	3	15.62	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%	0.14	0.05	0.19	0.14	10	2	0.33	TCLSHT
ABA016_6-6	6	6	6	7298.8	7298.8	0.00%	0.24	0.13	0.37	1.34	20	4	1.71	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%	0.12	0.09	0.21	0.32	15	3	0.54	TCLSHT
ABA036_6-6	6	6	6	7413.1	7413.1	0.00%	0.15	0.09	0.23	0.40	15	3	0.64	TCLSHT
ABA046_6-6	6	6	6	8165.5	8165.5	0.13%	0.21	0.19	0.41	0.57	10	2	0.97	TCLSHT
ABA056_6-6	6	6	6	8039.1	8039.1	0.02%	0.16	0.07	0.23	0.87	20	4	1.10	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%	0.13	0.05	0.18	0.77	25	5	0.95	TCLSHT
ABA076_6-6	6	6	6	7774.7	7774.7	0.00%	0.18	0.10	0.28	0.46	15	3	0.74	TCLSHT
ABA086_6-6	6	6	6	6714.9	6714.9	0.00%	0.17	0.15	0.32	0.52	15	3	0.85	TCLSHT
ABA096_6-6	6	6	6	7551.8	7551.8	0.00%	0.21	0.08	0.29	0.79	20	4	1.08	TCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0012_6-6	6	6	12	12141.4	12141.4	0.04%	0.24	0.09	0.33	0.75	23	4	1.08	TCLSHT
ABA0112_6-6	6	6	12	14293.3	14293.3	0.00%	0.50	0.23	0.73	5.52	51	9	6.25	TCLSHT
ABA0212_6-6	6	6	12	14330.1	14330.1	0.00%	0.64	0.20	0.84	3.39	46	8	4.23	TCLSHT
ABA0312_6-6	6	6	12	14837.7	14837.7	0.00%	0.46	0.14	0.60	2.91	40	7	3.51	TCLSHT
ABA0412_6-6	6	6	12	15055.7	15055.7	0.07%	0.80	0.23	1.03	4.47	34	6	5.50	TCLSHT
ABA0512_6-6	6	6	12	14752.5	14752.5	0.10%	0.30	0.14	0.43	3.36	34	6	3.80	TCLSHT
ABA0612_6-6	6	6	12	12767.0	12767.0	0.00%	0.41	0.07	0.48	4.88	34	6	5.36	TCLSHT
ABA0712_6-6	6	6	12	15302.5	15302.5	0.07%	0.50	0.22	0.73	2.39	34	6	3.11	TCLSHT
ABA0812_6-6	6	6	12	12633.6	12633.6	0.13%	0.54	0.20	0.75	2.01	29	5	2.76	TCLSHT
ABA0912_6-6	6	6	12	14371.3	14371.3	0.23%	0.53	0.20	0.73	11.11	40	7	11.85	TCLSHT
ABA0018_6-6	6	6	18	17952.6	17952.6	0.01%	0.56	0.17	0.72	1.21	30	4	1.94	TCLSHT
ABA0218_6-6	6	6	18	20073.2	20073.2	0.00%	1.20	0.34	1.54	5.32	44	6	6.87	TCLSHT
ABA0318_6-6	6	6	18	20680.1	20680.1	0.05%	0.85	0.16	1.02	4.84	38	5	5.86	TCLSHT
ABA0418_6-6	6	6	18	22435.7	22435.7	0.00%	1.42	0.57	1.99	9.98	46	6	11.97	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%	0.58	0.33	0.91	8.92	52	7	9.84	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%	1.10	0.11	1.21	4.56	44	6	5.78	TCLSHT
ABA0718_6-6	6	6	18	22014.5	22014.5	0.02%	1.02	0.25	1.27	5.74	44	6	7.01	TCLSHT
ABA0818_6-6	6	6	18	20296.5	20296.5	0.19%	1.43	0.35	1.78	7.59	38	5	9.37	TCLSHT
ABA0918_6-6	6	6	18	21702.5	21702.5	0.00%	1.13	0.30	1.43	12.86	38	5	14.29	TCLSHT
ABA006_6-12	12	6	6	12812.5	12812.5	0.00%	0.21	0.07	0.28	1.16	15	3	1.44	TCLSHT
ABA016_6-12	12	6	6	13123.5	13123.5	0.08%	0.23	0.05	0.28	1.42	15	3	1.69	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%	0.15	0.06	0.22	1.06	20	4	1.28	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%	0.18	0.06	0.25	0.27	10	2	0.51	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%	0.19	0.04	0.24	0.89	20	4	1.13	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%	0.17	0.06	0.23	0.89	20	4	1.12	TCLSHT
ABA066_6-12	12	6	6	11724.7	11724.7	0.19%	0.22	0.14	0.36	0.85	15	3	1.21	TCLSHT
ABA076_6-12	12	6	6	13602.8	13602.8	0.22%	0.24	0.07	0.31	3.74	25	5	4.05	TCLSHT
ABA086_6-12	12	6	6	13469.7	13469.7	0.00%	0.31	0.06	0.37	1.96	20	4	2.33	TCLSHT
ABA096_6-12	12	6	6	14421.5	14421.5	0.12%	0.27	0.09	0.36	3.16	15	3	3.53	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%	0.57	0.18	0.75	4.86	34	6	5.61	TCLSHT
ABA0112_6-12	12	6	12	25698.4	25698.4	0.00%	0.49	0.15	0.65	7.45	34	6	8.09	TCLSHT
ABA0212_6-12	12	6	12	24225.6	24225.6	0.03%	0.44	0.19	0.63	41.37	40	7	42.00	TCLSHT
ABA0312_6-12	12	6	12	26589.5	26589.5	0.00%	0.44	0.25	0.69	10.00	57	10	10.69	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%	0.64	0.12	0.77	4.79	40	7	5.56	TCLSHT
ABA0512_6-12	12	6	12	26322.3	26322.3	0.00%	0.58	0.10	0.68	19.26	57	10	19.95	TCLSHT
ABA0612_6-12	12	6	12	23645.7	23645.7	0.03%	0.65	0.08	0.74	10.80	46	8	11.54	TCLSHT
ABA0712_6-12	12	6	12	28110.8	28110.8	0.03%	0.64	0.14	0.79	51.83	46	8	52.62	TCLSHT
ABA0812_6-12	12	6	12	25972.8	25972.8	0.19%	0.73	0.31	1.04	33.48	51	9	34.53	TCLSHT
ABA0912_6-12	12	6	12	27423.9	27423.9	0.00%	0.62	0.27	0.90	13.73	46	8	14.63	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%	1.27	0.09	1.37	14.75	38	5	16.12	TCLSHT
ABA0118_6-12	12	6	18	41270.3	41270.3	0.07%	1.37	0.12	1.49	18.01	38	5	19.50	TCLSHT
ABA0218_6-12	12	6	18	36881.3	36881.3	0.00%	0.76	0.13	0.89	21.86	44	6	22.75	TCLSHT
ABA0318_6-12	12	6	18	38518.2	38518.2	0.01%	0.89	0.15	1.04	12.75	38	5	13.80	TCLSHT
ABA0418_6-12	12	6	18	37126.2	37126.2	0.00%	0.77	0.09	0.86	7.52	30	4	8.38	TCLSHT
ABA0518_6-12	12	6	18	40634.2	40634.2	0.02%	0.84	0.17	1.01	26.52	52	7	27.53	TCLSHT
ABA0618_6-12	12	6	18	37432.6	37432.6	0.03%	1.81	0.15	1.96	21.99	30	4	23.95	TCLSHT
ABA0718_6-12	12	6	18	41590.9	41590.9	0.20%	1.51	0.14	1.65	47.84	30	4	49.50	TCLSHT
ABA0818_6-12	12	6	18	39535.3	39535.3	0.28%	1.74	0.23	1.98	114.97	46	6	116.95	TCLSHT
ABA0918_6-12	12	6	18	41320.6	41320.6	0.03%	1.17	0.44	1.60	26.76	30	4	28.37	TCLSHT
ABA006_6-25	25	6	6	25664.9	25664.9	0.02%	0.36	0.08	0.44	5.92	10	2	6.37	TCLSHT
ABA016_6-25	25	6	6	25434.6	25434.6	0.12%	0.49	0.06	0.55	10.43	15	3	10.98	TCLSHT
ABA026_6-25	25	6	6	26791.9	26791.9	0.00%	0.26	0.05	0.31	4.18	20	4	4.49	TCLSHT
ABA036_6-25	25	6	6	26825.5	26825.5	0.04%	0.49	0.12	0.60	16.38	15	3	16.99	TCLSHT
ABA046_6-25	25	6	6	28538.6	28538.6	0.10%	0.73	0.11	0.84	13.50	15	3	14.35	TCLSHT
ABA056_6-25	25	6	6	26294.8	26294.8	0.03%	0.35	0.18	0.53	12.89	20	4	13.42	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%	0.26	0.10	0.36	1.68	15	3	2.04	TCLSHT
ABA076_6-25	25	6	6	27981.4	27981.4	0.03%	0.37	0.13	0.50	5.98	25	5	6.48	TCLSHT
ABA086_6-25	25	6	6	26667.2	26667.2	0.00%	0.40	0.08	0.49	4.43	15	3	4.93	TCLSHT
ABA096_6-25	25	6	6	26356.7	26356.7	0.05%	0.37	0.08	0.45	3.11	20	4	3.57	TCLSHT
ABA0012_6-25	25	6	12	52459.3	52459.3	0.10%	1.09	0.12	1.22	44.25	23	4	45.47	TCLSHT
ABA0112_6-25	25	6	12	52630.5	52630.5	0.11%	1.05	0.12	1.18	138.77	63	11	139.96	TCLSHT
ABA0212_6-25	25	6	12	53995.3	53995.3	0.00%	0.64	0.09	0.74	28.26	63	11	29.00	TCLSHT
ABA0312_6-25	25	6	12	52531.7	52531.7	0.32%	1.12	0.20	1.32	52.05	23	4	53.37	TCLSHT
ABA0412_6-25	25	6	12	56026.0	56026.0	0.17%	0.91	0.14	1.05	67.08	23	4	68.13	TCLSHT
ABA0512_6-25	25	6	12	51790.4	51790.4	0.02%	0.76	0.30	1.07	50.81	34	6	51.88	TCLSHT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0612_6-25	25	6	12	50984.3	50984.3	0.00%	0.55	0.09	0.64	6.55	34	6	7.20	TCLSHT
ABA0712_6-25	25	6	12	52728.9	52728.9	0.06%	1.05	0.16	1.21	46.66	46	8	47.87	TCLSHT
ABA0812_6-25	25	6	12	51185.7	51185.7	0.00%	0.85	0.12	0.98	16.53	34	6	17.51	TCLSHT
ABA0912_6-25	25	6	12	53578.4	53578.4	0.00%	0.77	0.14	0.91	16.73	23	4	17.64	TCLSHT
ABA0018_6-25	25	6	18	76419.2	76419.2	0.16%	1.72	0.23	1.96	152.84	38	5	154.81	TCLSHT
ABA0118_6-25	25	6	18	79411.2	79411.2	0.04%	2.34	0.18	2.53	92.56	44	6	95.09	TCLSHT
ABA0218_6-25	25	6	18	81688.0	81688.0	0.04%	1.95	0.18	2.14	76.20	60	8	78.35	TCLSHT
ABA0318_6-25	25	6	18	79831.4	79831.4	0.22%	2.39	0.53	2.92	248.03	46	6	250.95	TCLSHT
ABA0418_6-25	25	6	18	84929.9	84929.9	0.13%	1.76	0.23	1.99	184.65	44	6	186.65	TCLSHT
ABA0518_6-25	25	6	18	80993.7	80993.7	0.06%	1.29	0.25	1.55	71.54	30	4	73.10	TCLSHT
ABA0618_6-25	25	6	18	76313.5	76313.5	0.00%	1.17	0.23	1.40	14.81	38	5	16.21	TCLSHT
ABA0718_6-25	25	6	18	77694.1	77694.1	0.04%	1.90	0.15	2.05	46.11	30	4	48.17	TCLSHT
ABA0818_6-25	25	6	18	75117.4	75117.4	0.02%	1.57	0.18	1.75	51.66	52	7	53.41	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%	1.44	0.19	1.64	29.90	38	5	31.55	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%	0.74	0.11	0.86	8.84	15	3	9.70	TCLSHT
ABA016_6-50	50	6	6	50641.4	50641.4	0.00%	0.56	0.14	0.70	10.27	20	4	10.98	TCLSHT
ABA026_6-50	50	6	6	52187.7	52187.7	0.02%	0.72	0.09	0.82	27.34	15	3	28.16	TCLSHT
ABA036_6-50	50	6	6	51704.3	51704.3	0.04%	0.40	0.09	0.48	6.91	20	4	7.39	TCLSHT
ABA046_6-50	50	6	6	54020.2	54020.2	0.04%	0.71	0.23	0.94	14.53	25	5	15.47	TCLSHT
ABA056_6-50	50	6	6	52799.4	52799.4	0.08%	0.62	0.17	0.79	17.92	15	3	18.72	TCLSHT
ABA066_6-50	50	6	6	51976.5	51976.5	0.04%	0.74	0.16	1.09	26.67	15	3	27.76	TCLSHT
ABA076_6-50	50	6	6	54019.2	54019.2	0.03%	0.55	0.14	0.69	6.35	15	3	7.04	TCLSHT
ABA086_6-50	50	6	6	50875.2	50875.2	0.02%	0.61	0.16	0.78	29.00	20	4	29.79	TCLSHT
ABA096_6-50	50	6	6	50684.2	50684.2	0.02%	0.34	0.13	0.48	3.87	15	3	4.35	TCLSHT
ABA0012_6-50	50	6	12	102498.4	102498.4	0.01%	1.32	0.27	1.59	58.33	46	8	59.93	TCLSHT
ABA0112_6-50	50	6	12	101526.8	101526.8	0.01%	1.53	0.22	1.76	50.26	28	5	52.02	TCLSHT
ABA0212_6-50	50	6	12	105118.3	105118.3	0.07%	1.83	0.24	2.08	110.89	23	4	112.98	TCLSHT
ABA0312_6-50	50	6	12	102563.0	102563.0	0.02%	1.24	0.19	1.43	31.13	40	7	32.56	TCLSHT
ABA0412_6-50	50	6	12	109758.4	109758.4	0.05%	1.38	0.31	1.69	48.99	17	3	50.69	TCLSHT
ABA0512_6-50	50	6	12	105394.0	105394.0	0.06%	1.26	0.18	1.45	96.92	46	8	98.38	TCLSHT
ABA0612_6-50	50	6	12	102017.4	102017.4	0.04%	1.87	0.32	2.20	63.41	23	4	65.61	TCLSHT
ABA0712_6-50	50	6	12	107574.4	107574.4	0.03%	1.28	0.18	1.47	55.50	34	6	56.97	TCLSHT
ABA0812_6-50	50	6	12	99894.7	99894.7	0.01%	1.24	0.35	1.60	29.08	23	4	30.68	TCLSHT
ABA0912_6-50	50	6	12	102317.4	102317.4	0.00%	1.10	0.35	1.46	53.21	40	7	54.67	TCLSHT
ABA0018_6-50	50	6	18	152832.8	152832.8	0.03%	2.56	0.42	2.99	81.30	22	3	84.30	TCLSHT
ABA0118_6-50	50	6	18	150963.8	150963.8	0.01%	2.97	0.47	3.45	69.38	38	5	72.84	TCLSHT
ABA0218_6-50	50	6	18	154507.7	154507.7	0.06%	2.57	0.47	3.05	83.70	22	3	86.76	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%	2.11	0.28	2.39	20.77	22	3	23.17	TCLSHT
ABA0418_6-50	50	6	18	164865.4	164865.4	0.06%	2.66	0.80	3.47	268.01	52	7	271.49	TCLSHT
ABA0518_6-50	50	6	18	155398.9	155398.9	0.05%	2.78	0.52	3.30	147.77	30	4	151.08	TCLSHT
ABA0618_6-50	50	6	18	154289.4	154289.4	0.07%	4.06	0.36	4.43	179.64	38	5	184.08	TCLSHT
ABA0718_6-50	50	6	18	159136.1	159136.1	0.03%	2.48	0.23	2.71	89.09	38	5	91.81	TCLSHT
ABA0818_6-50	50	6	18	151032.7	151032.7	0.00%	1.98	0.60	2.59	53.77	30	4	56.37	TCLSHT
ABA0918_6-50	50	6	18	154191.9	154191.9	0.03%	2.10	0.26	2.37	102.37	38	5	104.75	TCLSHT
ABB006_2-6	6	2	6	8233.3	8233.3	0.08%	0.17	0.02	0.18	0.35	15	3	0.54	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%	0.10	0.02	0.12	0.22	15	3	0.34	TCLSLT
ABB026_2-6	6	2	6	7157.4	7157.4	0.00%	0.11	0.01	0.12	0.25	10	2	0.38	TCLSLT
ABB046_2-6	6	2	6	8047.5	8047.5	0.20%	0.12	0.02	0.14	0.34	10	2	0.48	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%	0.08	0.02	0.11	0.11	10	2	0.22	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%	0.11	0.02	0.13	0.18	10	2	0.31	TCLSLT
ABB076_2-6	6	2	6	9232.4	9232.4	0.58%	0.09	0.02	0.11	0.18	10	2	0.29	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%	0.10	0.02	0.11	0.10	10	2	0.22	TCLSLT
ABB096_2-6	6	2	6	7152.1	7152.1	0.00%	0.07	0.02	0.09	0.24	20	4	0.34	TCLSLT
ABB0012_2-6	6	2	12	15719.6	15719.6	0.03%	0.38	0.03	0.41	3.57	46	8	3.99	TCLSLT
ABB0112_2-6	6	2	12	13461.1	13461.1	0.02%	0.19	0.03	0.22	0.83	23	4	1.05	TCLSLT
ABB0212_2-6	6	2	12	14950.3	14950.3	0.00%	0.22	0.03	0.25	3.31	52	9	3.56	TCLSLT
ABB0412_2-6	6	2	12	14139.6	14139.6	0.00%	0.33	0.04	0.37	4.93	57	10	5.30	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%	0.15	0.03	0.18	0.63	23	4	0.81	TCLSLT
ABB0612_2-6	6	2	12	15105.9	15105.9	0.14%	0.18	0.02	0.20	0.75	17	3	0.95	TCLSLT
ABB0712_2-6	6	2	12	16715.8	16715.8	0.02%	0.21	0.02	0.23	2.55	51	9	2.78	TCLSLT
ABB0812_2-6	6	2	12	14186.3	14186.3	0.00%	0.19	0.03	0.21	1.30	34	6	1.51	TCLSLT
ABB0912_2-6	6	2	12	16158.4	16158.4	0.00%	0.16	0.03	0.19	1.08	40	7	1.27	TCLSLT
ABB0018_2-6	6	2	18	22019.2	22019.2	0.32%	0.57	0.04	0.61	9.51	44	6	10.13	TCLSLT
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%	0.36	0.05	0.41	1.72	44	6	2.14	TCLSLT
ABB0218_2-6	6	2	18	22591.6	22591.6	0.00%	0.35	0.03	0.39	3.36	52	7	3.75	TCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0418_2-6	6	2	18	20388.8	20388.8	0.00%	0.57	0.05	0.62	4.09	38	5	4.71	TCLSLT
ABB0518_2-6	6	2	18	25198.4	25198.4	0.00%	0.23	0.05	0.28	3.63	46	6	3.92	TCLSLT
ABB0618_2-6	6	2	18	22957.3	22957.3	0.06%	0.42	0.04	0.46	3.49	52	7	3.96	TCLSLT
ABB0718_2-6	6	2	18	24512.5	24512.5	0.03%	0.50	0.04	0.55	7.29	68	9	7.84	TCLSLT
ABB0818_2-6	6	2	18	20971.1	20971.1	0.00%	0.34	0.05	0.39	4.00	52	7	4.38	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%	0.24	0.04	0.27	2.07	44	6	2.34	TCLSLT
ABB006_2-12	12	2	6	12756.1	12756.1	0.03%	0.12	0.02	0.15	0.23	10	2	0.38	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%	0.15	0.02	0.18	0.51	20	4	0.69	TCLSLT
ABB026_2-12	12	2	6	14417.9	14417.9	0.24%	0.19	0.02	0.21	0.86	20	4	1.07	TCLSLT
ABB036_2-12	12	2	6	16417.8	16417.8	0.14%	0.13	0.03	0.16	0.26	10	2	0.42	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%	0.16	0.03	0.18	0.45	15	3	0.63	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%	0.15	0.02	0.18	0.70	20	4	0.88	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%	0.12	0.02	0.14	0.48	15	3	0.62	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%	0.10	0.02	0.12	0.45	20	4	0.57	TCLSLT
ABB086_2-12	12	2	6	12982.3	12982.3	0.00%	0.16	0.02	0.18	0.47	10	2	0.65	TCLSLT
ABB096_2-12	12	2	6	16038.5	16038.5	0.04%	0.16	0.02	0.18	0.72	15	3	0.91	TCLSLT
ABB0012_2-12	12	2	12	26283.8	26283.8	0.00%	0.23	0.05	0.29	1.50	34	6	1.79	TCLSLT
ABB0112_2-12	12	2	12	27509.7	27509.7	0.00%	0.34	0.04	0.38	3.52	57	10	3.90	TCLSLT
ABB0212_2-12	12	2	12	27431.4	27431.4	0.15%	0.37	0.04	0.41	7.44	41	7	7.85	TCLSLT
ABB0312_2-12	12	2	12	31879.2	31879.2	0.09%	0.24	0.03	0.27	4.37	52	9	4.65	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%	0.28	0.03	0.32	1.97	29	5	2.29	TCLSLT
ABB0512_2-12	12	2	12	32200.7	32200.7	0.00%	0.29	0.03	0.32	5.31	45	8	5.63	TCLSLT
ABB0612_2-12	12	2	12	27346.8	27346.8	0.00%	0.52	0.04	0.57	2.72	45	8	3.29	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%	0.23	0.03	0.26	2.20	34	6	2.46	TCLSLT
ABB0812_2-12	12	2	12	26745.4	26745.4	0.00%	0.28	0.05	0.33	4.46	51	9	4.80	TCLSLT
ABB0912_2-12	12	2	12	31306.6	31306.6	0.21%	0.43	0.04	0.47	16.63	63	11	17.11	TCLSLT
ABB0118_2-12	12	2	18	40639.2	40639.2	0.05%	0.51	0.06	0.57	11.68	66	9	12.25	TCLSLT
ABB0218_2-12	12	2	18	42006.5	42006.5	0.11%	0.96	0.05	1.02	17.03	52	7	18.05	TCLSLT
ABB0318_2-12	12	2	18	46479.3	46479.3	0.16%	0.49	0.05	0.54	18.15	60	8	18.69	TCLSLT
ABB0418_2-12	12	2	18	44295.9	44295.9	0.04%	0.45	0.05	0.50	8.84	52	7	9.35	TCLSLT
ABB0518_2-12	12	2	18	47422.7	47422.7	0.03%	0.40	0.06	0.47	6.39	38	5	6.86	TCLSLT
ABB0618_2-12	12	2	18	40758.7	40758.7	0.00%	0.42	0.04	0.46	8.37	80	11	8.82	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%	0.30	0.03	0.34	2.89	30	4	3.23	TCLSLT
ABB0818_2-12	12	2	18	41451.7	41451.7	0.00%	0.53	0.05	0.59	6.77	30	4	7.36	TCLSLT
ABB0918_2-12	12	2	18	47575.9	47575.9	0.26%	0.77	0.07	0.83	28.32	38	5	29.16	TCLSLT
ABB006_2-25	25	2	6	29265.1	29265.1	0.16%	0.14	0.04	0.19	0.70	15	3	0.89	TCLSLT
ABB016_2-25	25	2	6	29959.4	29959.4	0.02%	0.25	0.02	0.27	1.83	30	6	2.10	TCLSLT
ABB026_2-25	25	2	6	28774.2	28774.2	0.00%	0.35	0.03	0.38	1.10	20	4	1.48	TCLSLT
ABB036_2-25	25	2	6	30295.8	30295.8	0.07%	0.20	0.03	0.23	1.38	15	3	1.61	TCLSLT
ABB046_2-25	25	2	6	31560.1	31560.1	0.06%	0.24	0.02	0.26	0.67	10	2	0.93	TCLSLT
ABB056_2-25	25	2	6	31759.1	31759.1	0.04%	0.28	0.06	0.33	2.06	20	4	2.40	TCLSLT
ABB066_2-25	25	2	6	27896.2	27896.2	0.00%	0.15	0.04	0.19	0.25	10	2	0.44	TCLSLT
ABB076_2-25	25	2	6	31487.0	31487.0	0.16%	0.30	0.06	0.36	1.34	15	3	1.70	TCLSLT
ABB086_2-25	25	2	6	32370.1	32370.1	0.06%	0.24	0.04	0.28	1.26	15	3	1.54	TCLSLT
ABB096_2-25	25	2	6	33498.2	33498.2	0.09%	0.25	0.05	0.30	1.71	15	3	2.01	TCLSLT
ABB0012_2-25	25	2	12	58331.0	58331.0	0.01%	0.38	0.04	0.43	12.50	51	9	12.93	TCLSLT
ABB0112_2-25	25	2	12	61100.7	61100.7	0.02%	0.49	0.05	0.55	12.90	40	7	13.45	TCLSLT
ABB0212_2-25	25	2	12	56474.5	56474.5	0.07%	0.61	0.10	0.71	4.79	23	4	5.51	TCLSLT
ABB0312_2-25	25	2	12	59377.6	59377.6	0.11%	0.56	0.06	0.63	14.22	17	3	14.85	TCLSLT
ABB0412_2-25	25	2	12	59859.1	59859.1	0.00%	0.61	0.06	0.67	6.13	51	9	6.80	TCLSLT
ABB0512_2-25	25	2	12	65386.6	65386.6	0.16%	0.74	0.05	0.79	31.36	46	8	32.15	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%	0.21	0.04	0.26	1.50	28	5	1.76	TCLSLT
ABB0712_2-25	25	2	12	62950.6	62950.6	0.08%	0.67	0.09	0.76	12.00	34	6	12.76	TCLSLT
ABB0812_2-25	25	2	12	63134.4	63134.4	0.08%	0.85	0.04	0.89	13.73	17	3	14.62	TCLSLT
ABB0912_2-25	25	2	12	64154.6	64154.6	0.07%	0.48	0.21	0.70	9.75	28	5	10.44	TCLSLT
ABB0018_2-25	25	2	18	87097.0	87097.0	0.00%	0.60	0.07	0.67	5.76	30	4	6.44	TCLSLT
ABB0118_2-25	25	2	18	88771.9	88771.9	0.09%	1.11	0.06	1.17	14.09	22	3	15.26	TCLSLT
ABB0218_2-25	25	2	18	83573.1	83573.1	0.09%	0.77	0.11	0.88	16.75	44	6	17.64	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.06%	0.89	0.09	0.98	25.99	30	4	26.98	TCLSLT
ABB0418_2-25	25	2	18	90841.8	90841.8	0.05%	0.78	0.06	0.84	18.61	52	7	19.46	TCLSLT
ABB0518_2-25	25	2	18	95653.7	95653.7	0.22%	1.33	0.14	1.47	116.43	30	4	117.91	TCLSLT
ABB0618_2-25	25	2	18	83620.4	83620.4	0.00%	0.39	0.04	0.44	3.93	30	4	4.37	TCLSLT
ABB0718_2-25	25	2	18	92542.5	92542.5	0.18%	1.21	0.09	1.30	28.72	22	3	30.03	TCLSLT
ABB0818_2-25	25	2	18	91835.3	91835.3	0.09%	1.16	0.07	1.24	63.33	38	5	64.57	TCLSLT
ABB0918_2-25	25	2	18	93413.3	93413.3	0.07%	0.99	0.06	1.05	17.00	22	3	18.05	TCLSLT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB006_2-50	50	2	6	58845.1	58845.1	0.00%	0.31	0.04	0.34	0.60	10	2	0.95	TCLSLT
ABB016_2-50	50	2	6	60378.9	60378.9	0.01%	0.34	0.03	0.37	0.84	10	2	1.21	TCLSLT
ABB026_2-50	50	2	6	56441.4	56441.4	0.02%	0.39	0.06	0.45	2.55	10	2	3.01	TCLSLT
ABB036_2-50	50	2	6	59469.3	59469.3	0.01%	0.33	0.05	0.38	0.72	10	2	1.10	TCLSLT
ABB046_2-50	50	2	6	61236.5	61236.5	0.04%	0.43	0.08	0.51	3.36	10	2	3.87	TCLSLT
ABB056_2-50	50	2	6	59593.3	59593.3	0.07%	0.35	0.05	0.40	2.13	15	3	2.54	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%	0.34	0.07	0.41	1.05	10	2	1.46	TCLSLT
ABB076_2-50	50	2	6	59130.9	59130.9	0.02%	0.34	0.09	0.44	4.92	15	3	5.36	TCLSLT
ABB086_2-50	50	2	6	60205.4	60205.4	0.03%	0.38	0.07	0.45	2.71	15	3	3.17	TCLSLT
ABB096_2-50	50	2	6	60810.4	60810.4	0.01%	0.36	0.04	0.40	1.20	15	3	1.60	TCLSLT
ABB0012_2-50	50	2	12	117397.8	117397.8	0.01%	0.44	0.07	0.51	9.25	34	6	9.77	TCLSLT
ABB0112_2-50	50	2	12	119972.8	119972.8	0.00%	0.63	0.13	0.76	2.49	17	3	3.25	TCLSLT
ABB0212_2-50	50	2	12	114329.9	114329.9	0.01%	0.77	0.11	0.89	37.22	51	9	38.11	TCLSLT
ABB0312_2-50	50	2	12	120119.2	120119.2	0.01%	0.66	0.11	0.77	14.41	40	7	15.18	TCLSLT
ABB0412_2-50	50	2	12	122588.8	122588.8	0.03%	1.00	0.18	1.19	40.09	57	10	41.28	TCLSLT
ABB0512_2-50	50	2	12	119625.3	119625.3	0.00%	0.61	0.13	0.75	8.64	23	4	9.39	TCLSLT
ABB0612_2-50	50	2	12	113741.0	113741.0	0.01%	0.57	0.17	0.74	6.90	40	7	7.65	TCLSLT
ABB0712_2-50	50	2	12	115027.0	115027.0	0.02%	0.65	0.07	0.72	24.04	17	3	24.76	TCLSLT
ABB0812_2-50	50	2	12	115700.5	115700.5	0.03%	1.20	0.11	1.31	29.03	34	6	30.34	TCLSLT
ABB0912_2-50	50	2	12	122636.8	122636.8	0.01%	1.25	0.08	1.33	16.98	57	10	18.31	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%	1.00	0.20	1.20	10.56	52	7	11.77	TCLSLT
ABB0118_2-50	50	2	18	178894.7	178894.7	0.00%	1.34	0.17	1.52	13.50	44	6	15.02	TCLSLT
ABB0218_2-50	50	2	18	170089.5	170089.5	0.03%	1.81	0.20	2.02	39.73	22	3	41.76	TCLSLT
ABB0318_2-50	50	2	18	181248.6	181248.6	0.01%	1.13	0.25	1.39	34.41	52	7	35.79	TCLSLT
ABB0418_2-50	50	2	18	182969.4	182969.4	0.07%	1.64	0.22	1.87	200.03	52	7	201.90	TCLSLT
ABB0518_2-50	50	2	18	181347.2	181347.2	0.01%	0.89	0.13	1.02	34.45	44	6	35.47	TCLSLT
ABB0618_2-50	50	2	18	171902.0	171902.0	0.00%	1.16	0.13	1.30	15.84	52	7	17.14	TCLSLT
ABB0718_2-50	50	2	18	172677.2	172677.2	0.01%	1.20	0.16	1.36	37.64	38	5	39.00	TCLSLT
ABB0818_2-50	50	2	18	173942.7	173942.7	0.02%	1.14	0.13	1.27	30.50	44	6	31.79	TCLSLT
ABB0918_2-50	50	2	18	183314.1	183314.1	0.03%	1.58	0.15	1.73	39.17	22	3	40.91	TCLSLT
ABB006_4-6	6	4	6	6464.9	6464.9	0.11%	0.14	0.04	0.19	0.47	15	3	0.66	TCLSLT
ABB016_4-6	6	4	6	7416.4	7416.4	0.00%	0.19	0.05	0.24	0.83	15	3	1.08	TCLSLT
ABB026_4-6	6	4	6	7464.6	7464.6	0.02%	0.15	0.04	0.19	0.40	15	3	0.60	TCLSLT
ABB036_4-6	6	4	6	6820.0	6820.0	0.00%	0.12	0.03	0.16	0.34	10	2	0.49	TCLSLT
ABB046_4-6	6	4	6	5688.1	5688.1	0.11%	0.11	0.04	0.15	0.40	15	3	0.56	TCLSLT
ABB056_4-6	6	4	6	8045.6	8045.6	0.33%	0.18	0.04	0.22	0.70	10	2	0.92	TCLSLT
ABB066_4-6	6	4	6	6508.5	6508.5	0.07%	0.18	0.04	0.22	0.31	15	3	0.52	TCLSLT
ABB076_4-6	6	4	6	7825.0	7825.0	0.01%	0.12	0.03	0.16	0.30	15	3	0.46	TCLSLT
ABB086_4-6	6	4	6	5917.1	5917.1	0.00%	0.11	0.04	0.15	0.32	20	4	0.47	TCLSLT
ABB096_4-6	6	4	6	8633.6	8633.6	0.26%	0.16	0.03	0.19	0.29	10	2	0.47	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%	0.28	0.06	0.34	0.93	23	4	1.27	TCLSLT
ABB0112_4-6	6	4	12	15530.8	15530.8	0.00%	0.39	0.09	0.48	10.00	58	10	10.48	TCLSLT
ABB0212_4-6	6	4	12	14797.7	14797.7	0.03%	0.36	0.07	0.43	1.96	23	4	2.40	TCLSLT
ABB0312_4-6	6	4	12	14718.6	14718.6	0.00%	0.34	0.09	0.43	1.70	34	6	2.13	TCLSLT
ABB0412_4-6	6	4	12	13227.0	13227.0	0.23%	0.38	0.09	0.47	8.10	29	5	8.57	TCLSLT
ABB0512_4-6	6	4	12	16257.7	16257.7	0.00%	0.47	0.08	0.55	14.81	51	9	15.37	TCLSLT
ABB0612_4-6	6	4	12	12966.7	12966.7	0.09%	0.36	0.07	0.43	1.90	34	6	2.33	TCLSLT
ABB0712_4-6	6	4	12	14884.5	14884.5	0.00%	0.32	0.06	0.38	1.53	29	5	1.91	TCLSLT
ABB0812_4-6	6	4	12	12604.2	12604.2	0.05%	0.34	0.05	0.39	1.88	34	6	2.27	TCLSLT
ABB0912_4-6	6	4	12	15135.1	15135.1	0.12%	0.45	0.05	0.50	2.88	45	8	3.38	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%	1.05	0.10	1.16	8.00	38	5	9.16	TCLSLT
ABB0118_4-6	6	4	18	22158.4	22158.4	0.00%	0.87	0.18	1.05	8.91	44	6	9.96	TCLSLT
ABB0218_4-6	6	4	18	21734.9	21734.9	0.00%	0.84	0.14	0.98	4.43	30	4	5.41	TCLSLT
ABB0318_4-6	6	4	18	22542.6	22542.6	0.00%	0.84	0.11	0.96	9.51	52	7	10.47	TCLSLT
ABB0418_4-6	6	4	18	20284.2	20284.2	0.00%	0.78	0.10	0.88	9.25	60	8	10.13	TCLSLT
ABB0518_4-6	6	4	18	24101.0	24101.0	0.37%	1.05	0.09	1.15	48.82	52	7	49.96	TCLSLT
ABB0618_4-6	6	4	18	20169.0	20169.0	0.06%	0.80	0.12	0.92	8.27	60	8	9.19	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%	0.72	0.11	0.83	5.66	52	7	6.49	TCLSLT
ABB0818_4-6	6	4	18	18410.0	18410.0	0.02%	0.62	0.10	0.72	5.05	44	6	5.77	TCLSLT
ABB0918_4-6	6	4	18	22403.9	22403.9	0.05%	0.88	0.07	0.95	3.68	44	6	4.64	TCLSLT
ABB006_4-12	12	4	6	13446.0	13446.0	0.00%	0.24	0.04	0.28	1.49	15	3	1.78	TCLSLT
ABB016_4-12	12	4	6	15674.7	15674.7	0.15%	0.31	0.06	0.37	2.85	15	3	3.22	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%	0.24	0.02	0.27	0.72	10	2	0.99	TCLSLT
ABB036_4-12	12	4	6	12514.3	12514.3	0.37%	0.21	0.04	0.25	1.37	15	3	1.62	TCLSLT
ABB046_4-12	12	4	6	14495.3	14495.3	0.08%	0.19	0.04	0.23	1.34	15	3	1.58	TCLSLT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB056_4-12	12	4	6	14344.1	14344.1	0.02%	0.18	0.06	0.25	2.52	15	3	2.76	TCLSLT
ABB066_4-12	12	4	6	12697.2	12697.2	0.00%	0.16	0.05	0.21	0.37	15	3	0.57	TCLSLT
ABB076_4-12	12	4	6	12606.8	12606.8	0.01%	0.21	0.04	0.25	0.91	15	3	1.16	TCLSLT
ABB086_4-12	12	4	6	14773.6	14773.6	0.02%	0.19	0.04	0.23	0.88	15	3	1.11	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%	0.19	0.03	0.23	1.70	15	3	1.93	TCLSLT
ABB0012_4-12	12	4	12	25174.1	25174.1	0.10%	0.83	0.11	0.95	37.00	45	8	37.95	TCLSLT
ABB0112_4-12	12	4	12	28839.9	28839.9	-0.27%	0.74	0.15	0.88	66.93	69	12	67.81	TCLSLT
ABB0212_4-12	12	4	12	26797.1	26797.1	0.17%	0.60	0.07	0.68	11.02	29	5	11.70	TCLSLT
ABB0312_4-12	12	4	12	25865.1	25865.1	0.23%	0.56	0.07	0.64	24.16	46	8	24.79	TCLSLT
ABB0412_4-12	12	4	12	27599.0	27599.0	0.00%	0.54	0.08	0.61	14.24	51	9	14.85	TCLSLT
ABB0512_4-12	12	4	12	28241.2	28241.2	0.17%	0.44	0.11	0.55	63.38	57	10	63.93	TCLSLT
ABB0612_4-12	12	4	12	24754.1	24754.1	0.00%	0.22	0.07	0.29	1.94	29	5	2.24	TCLSLT
ABB0712_4-12	12	4	12	26665.9	26665.9	0.07%	0.40	0.09	0.49	11.50	40	7	11.99	TCLSLT
ABB0812_4-12	12	4	12	28372.8	28372.8	0.00%	0.67	0.07	0.74	10.41	57	10	11.15	TCLSLT
ABB0912_4-12	12	4	12	29008.1	29008.1	0.37%	0.63	0.19	0.82	66.39	46	8	67.22	TCLSLT
ABB0018_4-12	12	4	18	38888.6	38888.6	0.21%	1.49	0.14	1.64	64.86	30	4	66.49	TCLSLT
ABB0118_4-12	12	4	18	42636.7	42636.7	0.32%	1.40	0.17	1.57	194.87	82	11	196.45	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.02%	0.96	0.08	1.05	18.18	30	4	19.23	TCLSLT
ABB0318_4-12	12	4	18	40308.1	40308.1	0.42%	1.39	0.15	1.54	70.66	30	4	72.20	TCLSLT
ABB0418_4-12	12	4	18	41075.8	41075.8	0.12%	0.93	0.14	1.07	45.77	60	8	46.84	TCLSLT
ABB0518_4-12	12	4	18	41423.3	41423.3	0.17%	0.78	0.11	0.89	53.52	52	7	54.41	TCLSLT
ABB0618_4-12	12	4	18	37393.7	37393.7	0.00%	0.79	0.07	0.87	15.01	74	10	15.88	TCLSLT
ABB0718_4-12	12	4	18	41735.8	41735.8	0.28%	1.09	0.17	1.26	91.42	74	10	92.68	TCLSLT
ABB0818_4-12	12	4	18	43209.5	43209.5	0.18%	1.09	0.11	1.20	22.68	30	4	23.88	TCLSLT
ABB0918_4-12	12	4	18	42151.4	42151.4	0.47%	1.24	0.18	1.42	112.92	52	7	114.34	TCLSLT
ABB006_4-25	25	4	6	25707.3	25707.3	0.00%	0.37	0.06	0.44	1.16	10	2	1.59	TCLSLT
ABB016_4-25	25	4	6	29649.4	29649.4	0.08%	0.28	0.05	0.33	1.93	20	4	2.26	TCLSLT
ABB026_4-25	25	4	6	27876.6	27876.6	0.08%	0.40	0.10	0.50	24.32	20	4	24.83	TCLSLT
ABB036_4-25	25	4	6	26311.8	26311.8	0.08%	0.40	0.09	0.49	3.23	10	2	3.73	TCLSLT
ABB046_4-25	25	4	6	26760.7	26760.7	0.01%	0.23	0.07	0.30	1.13	15	3	1.43	TCLSLT
ABB056_4-25	25	4	6	30272.1	30272.1	0.01%	0.34	0.06	0.40	5.06	15	3	5.46	TCLSLT
ABB066_4-25	25	4	6	25472.9	25472.9	0.00%	0.24	0.06	0.31	1.32	15	3	1.63	TCLSLT
ABB076_4-25	25	4	6	27345.4	27345.4	0.09%	0.39	0.04	0.43	4.73	10	2	5.16	TCLSLT
ABB086_4-25	25	4	6	26363.1	26363.1	0.05%	0.27	0.06	0.33	1.76	15	3	2.09	TCLSLT
ABB096_4-25	25	4	6	28093.2	28093.2	0.05%	0.40	0.04	0.44	2.38	15	3	2.83	TCLSLT
ABB0012_4-25	25	4	12	54091.3	54091.3	0.15%	1.27	0.12	1.39	55.68	23	4	57.08	TCLSLT
ABB0112_4-25	25	4	12	56546.1	56546.1	0.02%	0.76	0.09	0.86	15.08	29	5	15.94	TCLSLT
ABB0212_4-25	25	4	12	53622.9	53622.9	0.17%	0.86	0.24	1.10	62.70	29	5	63.80	TCLSLT
ABB0312_4-25	25	4	12	54450.7	54450.7	0.15%	0.69	0.17	0.86	106.02	63	11	106.88	TCLSLT
ABB0412_4-25	25	4	12	55098.5	55098.5	0.00%	0.55	0.08	0.63	3.95	17	3	4.58	TCLSLT
ABB0512_4-25	25	4	12	57290.0	57290.0	0.00%	0.68	0.10	0.78	43.16	34	6	43.94	TCLSLT
ABB0612_4-25	25	4	12	50868.3	50868.3	0.02%	0.81	0.13	0.94	10.18	34	6	11.12	TCLSLT
ABB0712_4-25	25	4	12	55970.5	55970.5	0.20%	0.83	0.09	0.92	62.87	23	4	63.79	TCLSLT
ABB0812_4-25	25	4	12	54355.9	54355.9	0.04%	0.63	0.13	0.77	48.50	28	5	49.27	TCLSLT
ABB0912_4-25	25	4	12	55263.5	55263.5	0.18%	1.03	0.08	1.12	124.99	46	8	126.11	TCLSLT
ABB0018_4-25	25	4	18	78510.3	78510.3	0.11%	1.86	0.26	2.12	174.63	68	9	176.75	TCLSLT
ABB0118_4-25	25	4	18	84173.0	84173.0	0.06%	1.32	0.20	1.52	88.46	66	9	89.97	TCLSLT
ABB0218_4-25	25	4	18	81370.8	81370.8	0.18%	1.67	0.10	1.77	216.77	44	6	218.54	TCLSLT
ABB0318_4-25	25	4	18	81004.2	81004.2	0.19%	1.64	0.19	1.83	96.07	22	3	97.90	TCLSLT
ABB0418_4-25	25	4	18	83484.4	83484.4	0.01%	1.10	0.16	1.26	13.70	30	4	14.96	TCLSLT
ABB0518_4-25	25	4	18	84724.9	84724.9	0.14%	1.33	0.22	1.56	96.50	46	6	98.06	TCLSLT
ABB0618_4-25	25	4	18	77582.2	77582.2	0.00%	0.91	0.11	1.03	11.06	30	4	12.09	TCLSLT
ABB0718_4-25	25	4	18	83256.2	83256.2	0.20%	1.45	0.14	1.59	135.53	38	5	137.13	TCLSLT
ABB0818_4-25	25	4	18	78741.5	78741.5	0.05%	1.69	0.11	1.81	33.65	30	4	35.47	TCLSLT
ABB0918_4-25	25	4	18	82821.1	82821.1	0.16%	1.79	0.14	1.93	216.34	60	8	218.27	TCLSLT
ABB006_4-50	50	4	6	54786.5	54786.5	0.01%	0.59	0.07	0.67	6.68	15	3	7.35	TCLSLT
ABB016_4-50	50	4	6	55560.0	55560.0	0.03%	0.50	0.08	0.58	3.01	10	2	3.60	TCLSLT
ABB026_4-50	50	4	6	56250.4	56250.4	0.04%	0.80	0.12	0.92	5.72	15	3	6.64	TCLSLT
ABB036_4-50	50	4	6	55563.6	55563.6	0.07%	0.75	0.07	0.82	16.96	10	2	17.78	TCLSLT
ABB046_4-50	50	4	6	57288.1	57288.1	0.11%	0.65	0.09	0.74	41.36	15	3	42.10	TCLSLT
ABB056_4-50	50	4	6	57508.3	57508.3	0.00%	0.46	0.11	0.57	4.49	15	3	5.07	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%	0.52	0.07	0.60	1.15	10	2	1.75	TCLSLT
ABB076_4-50	50	4	6	51865.3	51865.3	0.02%	0.60	0.07	0.67	5.81	15	3	6.48	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%	0.50	0.13	0.62	6.88	20	4	7.51	TCLSLT
ABB096_4-50	50	4	6	60295.3	60295.3	0.04%	0.59	0.09	0.68	5.81	15	3	6.49	TCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0012_4-50	50	4	12	110859.8	110859.8	0.10%	1.73	0.17	1.89	51.57	23	4	53.47	TCLSLT
ABB0112_4-50	50	4	12	108636.6	108636.6	0.03%	1.31	0.13	1.45	41.72	29	5	43.17	TCLSLT
ABB0212_4-50	50	4	12	108288.2	108288.2	0.05%	1.25	0.17	1.42	42.42	29	5	43.84	TCLSLT
ABB0312_4-50	50	4	12	110636.0	110636.0	0.08%	1.26	0.22	1.48	156.29	46	8	157.77	TCLSLT
ABB0412_4-50	50	4	12	110161.5	110161.5	0.08%	1.46	0.16	1.62	44.31	17	3	45.94	TCLSLT
ABB0512_4-50	50	4	12	112144.5	112144.5	0.01%	0.99	0.11	1.10	19.34	17	3	20.44	TCLSLT
ABB0612_4-50	50	4	12	104150.2	104150.2	0.00%	1.08	0.08	1.16	13.69	51	9	14.85	TCLSLT
ABB0712_4-50	50	4	12	107046.0	107046.0	0.09%	1.94	0.13	2.08	66.54	17	3	68.63	TCLSLT
ABB0812_4-50	50	4	12	106676.3	106676.3	0.02%	1.20	0.19	1.39	11.26	17	3	12.66	TCLSLT
ABB0912_4-50	50	4	12	114586.7	114586.7	0.04%	1.22	0.08	1.31	40.56	23	4	41.87	TCLSLT
ABB0018_4-50	50	4	18	160436.3	160436.3	0.05%	2.56	0.24	2.80	92.45	36	5	95.27	TCLSLT
ABB0118_4-50	50	4	18	162045.4	162045.4	0.03%	1.78	0.20	1.98	44.40	38	5	46.39	TCLSLT
ABB0218_4-50	50	4	18	163370.1	163370.1	0.03%	2.64	0.20	2.86	80.86	22	3	83.72	TCLSLT
ABB0318_4-50	50	4	18	163951.8	163951.8	0.10%	2.94	0.28	3.23	247.11	38	5	250.35	TCLSLT
ABB0418_4-50	50	4	18	167288.2	167288.2	0.11%	2.83	0.36	3.20	223.84	30	4	227.05	TCLSLT
ABB0518_4-50	50	4	18	168377.2	168377.2	0.04%	2.26	0.28	2.54	73.77	30	4	76.31	TCLSLT
ABB0618_4-50	50	4	18	156592.0	156592.0	0.04%	1.64	0.16	1.80	40.16	22	3	41.97	TCLSLT
ABB0718_4-50	50	4	18	162364.8	162364.8	0.10%	3.16	0.16	3.32	155.77	30	4	159.09	TCLSLT
ABB0818_4-50	50	4	18	157609.0	157609.0	0.06%	1.97	0.24	2.21	37.97	22	3	40.19	TCLSLT
ABB0918_4-50	50	4	18	168757.7	168757.7	0.04%	2.56	0.16	2.73	63.46	22	3	66.19	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%	0.14	0.04	0.18	0.30	15	3	0.49	TCLSLT
ABB026_6-6	6	6	6	7102.0	7102.0	0.00%	0.16	0.06	0.22	0.46	15	3	0.68	TCLSLT
ABB036_6-6	6	6	6	7660.9	7660.9	0.29%	0.16	0.08	0.25	0.70	15	3	0.95	TCLSLT
ABB046_6-6	6	6	6	8274.0	8274.0	0.12%	0.25	0.06	0.32	0.57	15	3	0.89	TCLSLT
ABB056_6-6	6	6	6	8203.3	8203.3	0.00%	0.20	0.08	0.29	0.88	20	4	1.17	TCLSLT
ABB066_6-6	6	6	6	6872.6	6872.6	0.06%	0.16	0.06	0.22	0.47	10	2	0.70	TCLSLT
ABB076_6-6	6	6	6	7942.5	7942.5	0.00%	0.22	0.07	0.30	0.53	15	3	0.82	TCLSLT
ABB086_6-6	6	6	6	6982.7	6982.7	0.71%	0.21	0.09	0.30	1.31	20	4	1.62	TCLSLT
ABB096_6-6	6	6	6	7803.0	7803.0	0.20%	0.27	0.10	0.37	0.95	15	3	1.33	TCLSLT
ABB0012_6-6	6	6	12	12392.7	12392.7	0.00%	0.40	0.07	0.47	1.55	34	6	2.02	TCLSLT
ABB0212_6-6	6	6	12	14582.1	14582.1	0.00%	0.86	0.23	1.10	3.42	35	6	4.52	TCLSLT
ABB0312_6-6	6	6	12	15078.8	15078.8	0.00%	0.47	0.21	0.68	3.61	51	9	4.29	TCLSLT
ABB0412_6-6	6	6	12	15472.5	15472.5	0.14%	0.78	0.28	1.06	6.75	40	7	7.81	TCLSLT
ABB0512_6-6	6	6	12	15020.3	15020.3	0.01%	0.35	0.15	0.50	2.33	34	6	2.84	TCLSLT
ABB0612_6-6	6	6	12	13133.9	13133.9	0.00%	0.59	0.11	0.71	4.51	23	4	5.22	TCLSLT
ABB0712_6-6	6	6	12	15510.8	15510.8	0.00%	0.52	0.26	0.78	2.76	34	6	3.55	TCLSLT
ABB0812_6-6	6	6	12	13025.1	13025.1	0.07%	0.77	0.26	1.04	10.27	51	9	11.31	TCLSLT
ABB0912_6-6	6	6	12	14796.7	14796.7	0.16%	0.80	0.19	0.99	11.75	45	8	12.74	TCLSLT
ABB0018_6-6	6	6	18	18384.6	18384.6	0.00%	0.99	0.22	1.21	3.06	44	6	4.27	TCLSLT
ABB0218_6-6	6	6	18	20318.1	20318.1	0.00%	1.38	0.28	1.66	3.74	44	6	5.40	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%	1.52	0.28	1.80	4.50	38	5	6.30	TCLSLT
ABB0418_6-6	6	6	18	23161.2	23161.2	0.06%	2.15	0.44	2.59	19.39	52	7	21.98	TCLSLT
ABB0518_6-6	6	6	18	22881.4	22881.4	0.01%	1.02	0.33	1.35	12.15	52	7	13.50	TCLSLT
ABB0618_6-6	6	6	18	20655.6	20655.6	0.00%	1.21	0.17	1.38	7.47	30	4	8.85	TCLSLT
ABB0718_6-6	6	6	18	22420.6	22420.6	0.00%	1.24	0.25	1.50	9.74	68	9	11.24	TCLSLT
ABB0818_6-6	6	6	18	20795.5	20795.5	0.04%	1.71	0.37	2.08	12.38	74	10	14.46	TCLSLT
ABB0918_6-6	6	6	18	22345.7	22345.7	0.00%	2.40	0.27	2.68	51.34	60	8	54.01	TCLSLT
ABB006_6-12	12	6	6	12926.7	12926.7	0.00%	0.29	0.08	0.37	0.91	10	2	1.27	TCLSLT
ABB016_6-12	12	6	6	13331.5	13331.5	0.01%	0.31	0.10	0.41	2.81	20	4	3.22	TCLSLT
ABB026_6-12	12	6	6	12238.9	12238.9	0.00%	0.26	0.07	0.33	1.80	20	4	2.13	TCLSLT
ABB036_6-12	12	6	6	13147.8	13147.8	0.00%	0.20	0.09	0.30	1.00	15	3	1.30	TCLSLT
ABB046_6-12	12	6	6	12862.7	12862.7	0.00%	0.23	0.06	0.28	0.76	10	2	1.04	TCLSLT
ABB056_6-12	12	6	6	12470.5	12470.5	0.08%	0.21	0.06	0.26	0.56	10	2	0.83	TCLSLT
ABB066_6-12	12	6	6	11861.4	11861.4	0.13%	0.30	0.10	0.40	1.40	15	3	1.81	TCLSLT
ABB076_6-12	12	6	6	13879.6	13879.6	0.15%	0.32	0.06	0.37	4.34	15	3	4.71	TCLSLT
ABB086_6-12	12	6	6	13708.0	13708.0	0.00%	0.37	0.15	0.51	2.77	20	4	3.29	TCLSLT
ABB096_6-12	12	6	6	14614.6	14614.6	0.04%	0.31	0.08	0.39	5.25	20	4	5.64	TCLSLT
ABB0012_6-12	12	6	12	24484.2	24484.2	0.00%	0.70	0.19	0.89	14.55	46	8	15.44	TCLSLT
ABB0112_6-12	12	6	12	26017.0	26017.0	0.01%	0.72	0.21	0.94	23.11	34	6	24.04	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%	0.70	0.18	0.89	36.02	40	7	36.91	TCLSLT
ABB0312_6-12	12	6	12	26923.9	26923.9	0.02%	0.53	0.34	0.87	18.97	46	8	19.84	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%	0.52	0.13	0.65	9.92	23	4	10.57	TCLSLT
ABB0512_6-12	12	6	12	26646.9	26646.9	0.00%	0.57	0.24	0.81	25.12	46	8	25.94	TCLSLT
ABB0612_6-12	12	6	12	23906.1	23906.1	0.02%	0.93	0.10	1.02	12.95	46	8	13.98	TCLSLT
ABB0712_6-12	12	6	12	28598.4	28598.4	0.31%	0.91	0.13	1.04	154.20	63	11	155.25	TCLSLT

Continua na Próxima Página

Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0812_6-12	12	6	12	26482.1	26482.1	0.29%	0.97	0.28	1.25	25.00	23	4	26.25	TCLSLT
ABB0912_6-12	12	6	12	27760.0	27760.0	0.13%	0.78	0.35	1.13	20.97	23	4	22.10	TCLSLT
ABB0018_6-12	12	6	18	36869.7	36869.7	0.00%	1.45	0.09	1.54	24.32	52	7	25.87	TCLSLT
ABB0118_6-12	12	6	18	41723.4	41723.4	0.12%	1.84	0.32	2.16	63.39	52	7	65.54	TCLSLT
ABB0218_6-12	12	6	18	37622.4	37622.4	0.43%	1.36	0.20	1.57	119.96	38	5	121.53	TCLSLT
ABB0318_6-12	12	6	18	38948.7	38948.7	0.06%	1.24	0.31	1.55	27.32	46	6	28.87	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%	1.07	0.23	1.31	10.33	30	4	11.64	TCLSLT
ABB0518_6-12	12	6	18	41020.8	41020.8	0.09%	1.12	0.19	1.32	69.69	52	7	71.01	TCLSLT
ABB0618_6-12	12	6	18	37962.2	37962.2	0.32%	2.54	0.16	2.71	87.56	52	7	90.27	TCLSLT
ABB0718_6-12	12	6	18	42279.3	42279.3	0.38%	1.76	0.36	2.12	136.70	54	7	138.82	TCLSLT
ABB0818_6-12	12	6	18	40385.8	40385.8	0.71%	2.86	0.37	3.23	192.62	38	5	195.85	TCLSLT
ABB0918_6-12	12	6	18	41882.3	41882.3	0.34%	1.89	0.51	2.40	151.39	68	9	153.79	TCLSLT
ABB006_6-25	25	6	6	25938.3	25938.3	0.10%	0.54	0.08	0.62	52.97	25	5	53.59	TCLSLT
ABB016_6-25	25	6	6	25645.7	25645.7	0.18%	0.55	0.05	0.61	22.07	10	2	22.68	TCLSLT
ABB026_6-25	25	6	6	26951.1	26951.1	0.03%	0.40	0.10	0.51	6.25	15	3	6.76	TCLSLT
ABB036_6-25	25	6	6	27211.8	27211.8	0.25%	0.62	0.07	0.69	30.49	15	3	31.18	TCLSLT
ABB046_6-25	25	6	6	28820.1	28820.1	0.21%	0.60	0.18	0.78	34.43	15	3	35.21	TCLSLT
ABB056_6-25	25	6	6	26522.2	26522.2	0.05%	0.46	0.12	0.58	20.87	25	5	21.45	TCLSLT
ABB066_6-25	25	6	6	25486.5	25486.5	0.03%	0.36	0.12	0.48	2.65	20	4	3.14	TCLSLT
ABB076_6-25	25	6	6	28154.3	28154.3	0.07%	0.45	0.08	0.53	4.02	20	4	4.55	TCLSLT
ABB086_6-25	25	6	6	26880.7	26880.7	0.03%	0.52	0.09	0.61	18.48	15	3	19.09	TCLSLT
ABB096_6-25	25	6	6	26598.0	26598.0	0.10%	0.56	0.10	0.66	17.24	20	4	17.90	TCLSLT
ABB0012_6-25	25	6	12	52860.7	52860.7	0.28%	1.61	0.16	1.78	197.34	51	9	199.12	TCLSLT
ABB0112_6-25	25	6	12	53111.0	53111.0	0.32%	1.57	0.25	1.82	144.80	29	5	146.63	TCLSLT
ABB0212_6-25	25	6	12	54294.1	54294.1	0.12%	1.01	0.14	1.15	94.90	45	8	96.06	TCLSLT
ABB0312_6-25	25	6	12	53199.5	53209.4	0.57%	1.61	0.25	1.86	222.67	29	5	224.54	TCLSLT
ABB0412_6-25	25	6	12	56441.2	56441.2	0.23%	1.72	0.34	2.07	150.89	29	5	152.97	TCLSLT
ABB0512_6-25	25	6	12	52139.8	52139.8	0.18%	1.22	0.39	1.61	169.17	57	10	170.78	TCLSLT
ABB0612_6-25	25	6	12	51231.1	51231.1	0.02%	1.04	0.15	1.19	37.79	40	7	38.98	TCLSLT
ABB0712_6-25	25	6	12	53109.7	53109.7	0.14%	1.45	0.19	1.65	106.37	23	4	108.02	TCLSLT
ABB0812_6-25	25	6	12	51562.6	51562.6	0.13%	1.33	0.34	1.67	89.04	40	7	90.71	TCLSLT
ABB0912_6-25	25	6	12	54000.6	54000.6	0.12%	1.44	0.27	1.71	125.54	45	8	127.26	TCLSLT
ABB0018_6-25	25	6	18	77163.7	77163.7	0.37%	3.14	0.64	3.78	155.49	22	3	159.27	TCLSLT
ABB0118_6-25	25	6	18	80006.4	80006.4	0.25%	2.93	0.46	3.40	246.82	30	4	250.23	TCLSLT
ABB0218_6-25	25	6	18	82239.5	82239.5	0.23%	2.84	0.22	3.06	262.03	38	5	265.09	TCLSLT
ABB0318_6-25	25	6	18	80945.5	80945.5	0.61%	3.72	0.62	4.34	520.78	54	7	525.12	TCLSLT
ABB0418_6-25	25	6	18	85570.2	85570.2	0.25%	3.65	0.48	4.14	188.36	22	3	192.51	TCLSLT
ABB0518_6-25	25	6	18	81506.9	81506.9	0.22%	2.30	0.38	2.68	182.89	30	4	185.58	TCLSLT
ABB0618_6-25	25	6	18	76562.2	76562.2	0.02%	1.42	0.23	1.65	64.74	38	5	66.40	TCLSLT
ABB0718_6-25	25	6	18	78321.5	78321.5	0.24%	2.36	0.18	2.54	227.73	30	4	230.27	TCLSLT
ABB0818_6-25	25	6	18	75616.9	75616.9	0.15%	1.87	0.31	2.19	137.79	30	4	139.98	TCLSLT
ABB0918_6-25	25	6	18	81829.6	81829.6	0.14%	2.49	0.19	2.69	248.32	44	6	251.01	TCLSLT
ABB006_6-50	50	6	6	50834.7	50834.7	0.07%	1.04	0.19	1.24	41.79	25	5	43.03	TCLSLT
ABB016_6-50	50	6	6	50949.8	50949.8	0.05%	0.70	0.21	0.92	22.64	10	2	23.56	TCLSLT
ABB026_6-50	50	6	6	52535.6	52535.6	0.12%	0.98	0.12	1.11	73.87	25	5	74.97	TCLSLT
ABB036_6-50	50	6	6	51904.1	51904.1	0.02%	0.65	0.13	0.79	27.57	20	4	28.37	TCLSLT
ABB046_6-50	50	6	6	54394.5	54394.5	0.15%	1.36	0.19	1.55	105.11	25	5	106.66	TCLSLT
ABB056_6-50	50	6	6	53114.3	53114.3	0.13%	0.82	0.33	1.16	38.65	15	3	39.82	TCLSLT
ABB066_6-50	50	6	6	52450.6	52450.6	0.19%	0.96	0.13	1.10	30.72	10	2	31.82	TCLSLT
ABB076_6-50	50	6	6	54128.8	54128.8	0.00%	0.61	0.19	0.81	5.94	15	3	6.75	TCLSLT
ABB086_6-50	50	6	6	51241.2	51241.2	0.09%	0.77	0.13	0.90	49.47	25	5	50.37	TCLSLT
ABB096_6-50	50	6	6	50883.9	50883.9	0.02%	0.62	0.16	0.78	14.54	10	2	15.33	TCLSLT
ABB0012_6-50	50	6	12	102814.6	102814.6	0.08%	2.26	0.21	2.48	160.57	40	7	163.05	TCLSLT
ABB0112_6-50	50	6	12	101950.1	101950.1	0.12%	2.38	0.37	2.76	135.65	28	5	138.42	TCLSLT
ABB0212_6-50	50	6	12	105758.6	105758.6	0.18%	2.18	0.28	2.46	258.10	35	6	260.57	TCLSLT
ABB0312_6-50	50	6	12	103013.3	103013.3	0.11%	2.24	0.35	2.59	108.19	23	4	110.79	TCLSLT
ABB0412_6-50	50	6	12	110361.0	110361.0	0.16%	3.38	0.48	3.87	193.62	29	5	197.50	TCLSLT
ABB0512_6-50	50	6	12	105910.5	105910.5	0.10%	1.86	0.89	2.76	102.52	29	5	105.28	TCLSLT
ABB0612_6-50	50	6	12	102922.6	102937.7	0.23%	3.33	0.28	3.61	379.76	46	8	383.38	TCLSLT
ABB0712_6-50	50	6	12	107883.0	107883.0	0.09%	1.79	0.22	2.01	113.22	23	4	115.24	TCLSLT
ABB0812_6-50	50	6	12	100290.3	100290.3	0.10%	2.32	0.21	2.53	104.69	23	4	107.22	TCLSLT
ABB0912_6-50	50	6	12	102768.1	102768.1	0.09%	2.45	0.65	3.11	136.75	34	6	139.86	TCLSLT
ABB0018_6-50	50	6	18	153519.3	153519.3	0.13%	5.25	0.68	5.94	254.80	30	4	260.75	TCLSLT
ABB0118_6-50	50	6	18	151579.6	151579.6	0.09%	5.56	0.51	6.07	302.56	44	6	308.64	TCLSLT
ABB0218_6-50	50	6	18	155277.3	155277.3	0.16%	4.50	0.26	4.78	312.97	38	5	317.76	TCLSLT

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Tabela II - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0318_6-50	50	6	18	154826.1	154826.1	0.12%	3.91	0.97	4.90	239.42	30	4	244.32	TCLSLT
ABB0418_6-50	50	6	18	165743.2	165839.3	0.21%	6.86	0.55	7.42	600.03	61	8	607.46	TCLSLT
ABB0518_6-50	50	6	18	156191.4	156191.4	0.21%	4.84	0.76	5.61	259.01	30	4	264.63	TCLSLT
ABB0618_6-50	50	6	18	155477.5	155477.5	0.22%	7.39	0.37	7.77	352.93	38	5	360.71	TCLSLT
ABB0718_6-50	50	6	18	159449.2	159449.2	0.05%	4.25	0.61	4.86	209.64	44	6	214.51	TCLSLT
ABB0818_6-50	50	6	18	151716.5	151716.5	0.13%	4.55	0.42	4.97	298.78	38	5	303.77	TCLSLT
ABB0918_6-50	50	6	18	154649.4	154649.4	0.09%	3.52	0.32	3.85	260.18	30	4	264.04	TCLSLT

Tabela III: Resultados por instância ($m/r/n$) - *HCGTHFO*

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6	13492.3	13492.3	0.00%	0.26	0.02	0.28	0.23	15	3	0.51	NCHSHT
NAA016_2-6	6	2	6	10970.8	10970.8	1.17%	0.29	0.02	0.31	0.11	10	2	0.42	NCHSHT
NAA026_2-6	6	2	6	14351.4	14351.4	0.52%	0.24	0.02	0.27	0.14	10	2	0.41	NCHSHT
NAA036_2-6	6	2	6	14599.2	14599.2	0.05%	0.31	0.02	0.32	0.13	10	2	0.45	NCHSHT
NAA046_2-6	6	2	6	15408.5	15408.5	0.14%	0.27	0.02	0.29	0.23	10	2	0.53	NCHSHT
NAA056_2-6	6	2	6	16142.8	16142.8	0.00%	0.25	0.01	0.26	0.10	10	2	0.37	NCHSHT
NAA066_2-6	6	2	6	15326.3	15326.3	0.00%	0.43	0.02	0.45	0.16	10	2	0.61	NCHSHT
NAA076_2-6	6	2	6	16379.4	16379.4	1.60%	0.25	0.02	0.26	0.43	15	3	0.70	NCHSHT
NAA086_2-6	6	2	6	12654.2	12654.2	0.12%	0.25	0.02	0.27	0.10	10	2	0.36	NCHSHT
NAA096_2-6	6	2	6	12694.6	12694.6	0.00%	0.26	0.02	0.28	0.17	10	2	0.45	NCHSHT
NAA0012_2-6	6	2	12	24428.6	24428.6	2.67%	1.30	0.02	1.32	0.56	18	3	1.88	NCHSHT
NAA0112_2-6	6	2	12	22910.7	22910.7	0.00%	1.14	0.02	1.16	1.15	30	5	2.31	NCHSHT
NAA0212_2-6	6	2	12	26673.0	26673.0	1.65%	0.88	0.03	0.91	0.63	18	3	1.54	NCHSHT
NAA0312_2-6	6	2	12	26455.7	26455.7	2.51%	0.80	0.03	0.84	0.61	18	3	1.45	NCHSHT
NAA0412_2-6	6	2	12	25731.4	25731.4	1.04%	1.49	0.03	1.53	1.94	30	5	3.48	NCHSHT
NAA0512_2-6	6	2	12	30087.9	30087.9	0.99%	1.00	0.03	1.04	0.58	18	3	1.63	NCHSHT
NAA0612_2-6	6	2	12	27131.2	27131.2	0.54%	0.80	0.02	0.83	0.81	18	3	1.63	NCHSHT
NAA0712_2-6	6	2	12	26455.5	26455.5	0.04%	1.12	0.04	1.16	0.82	24	4	1.97	NCHSHT
NAA0812_2-6	6	2	12	21875.1	21875.1	1.10%	1.00	0.02	1.03	0.24	12	2	1.27	NCHSHT
NAA0912_2-6	6	2	12	27002.4	27002.4	2.91%	0.82	0.03	0.85	0.60	12	2	1.46	NCHSHT
NAA0018_2-6	6	2	18	32461.3	32461.3	0.54%	3.56	0.04	3.60	1.95	24	3	5.55	NCHSHT
NAA0118_2-6	6	2	18	33551.8	33551.8	1.80%	3.66	0.04	3.71	3.44	32	4	7.15	NCHSHT
NAA0218_2-6	6	2	18	38705.2	38705.2	0.35%	2.35	0.06	2.41	1.68	32	4	4.09	NCHSHT
NAA0318_2-6	6	2	18	39138.5	39138.5	0.25%	2.87	0.05	2.92	2.01	32	4	4.93	NCHSHT
NAA0418_2-6	6	2	18	36321.7	36321.7	1.76%	3.30	0.05	3.35	3.86	24	3	7.21	NCHSHT
NAA0518_2-6	6	2	18	41668.3	41668.3	0.70%	2.97	0.03	3.00	1.29	24	3	4.29	NCHSHT
NAA0618_2-6	6	2	18	38094.4	38094.4	0.29%	2.13	0.04	2.17	2.21	40	5	4.38	NCHSHT
NAA0718_2-6	6	2	18	38545.2	38545.2	1.10%	2.96	0.04	3.01	1.57	24	3	4.58	NCHSHT
NAA0818_2-6	6	2	18	31376.1	31376.1	0.40%	2.11	0.04	2.15	0.88	24	3	3.04	NCHSHT
NAA0918_2-6	6	2	18	35219.3	35219.3	0.18%	1.76	0.05	1.81	1.44	32	4	3.25	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%	0.45	0.02	0.47	0.19	10	2	0.66	NCHSHT
NAA016_2-12	12	2	6	23669.7	23669.7	0.01%	0.51	0.02	0.54	0.52	15	3	1.07	NCHSHT
NAA026_2-12	12	2	6	24780.0	24780.0	0.21%	0.46	0.02	0.48	0.27	10	2	0.75	NCHSHT
NAA036_2-12	12	2	6	29174.4	29174.4	0.73%	0.37	0.03	0.40	0.41	15	3	0.81	NCHSHT
NAA046_2-12	12	2	6	24974.7	24974.7	0.71%	0.44	0.03	0.47	0.47	20	4	0.94	NCHSHT
NAA056_2-12	12	2	6	28598.2	28598.2	0.29%	0.55	0.03	0.58	0.53	10	2	1.11	NCHSHT
NAA066_2-12	12	2	6	25050.2	25050.2	0.73%	0.43	0.03	0.46	0.47	15	3	0.94	NCHSHT
NAA076_2-12	12	2	6	25619.8	25619.8	2.42%	0.35	0.03	0.38	0.43	15	3	0.81	NCHSHT
NAA086_2-12	12	2	6	22886.6	22886.6	0.00%	0.37	0.03	0.39	0.18	10	2	0.57	NCHSHT
NAA096_2-12	12	2	6	27108.9	27108.9	2.24%	0.40	0.03	0.43	0.40	10	2	0.83	NCHSHT
NAA0012_2-12	12	2	12	40867.6	40867.6	1.16%	1.22	0.05	1.27	0.66	18	3	1.94	NCHSHT
NAA0112_2-12	12	2	12	41319.6	41319.6	0.09%	1.37	0.03	1.41	0.97	24	4	2.38	NCHSHT
NAA0212_2-12	12	2	12	43586.3	43586.3	1.32%	1.64	0.04	1.67	2.84	24	4	4.51	NCHSHT
NAA0312_2-12	12	2	12	52872.3	52872.3	0.83%	1.73	0.04	1.78	1.79	24	4	3.57	NCHSHT
NAA0412_2-12	12	2	12	45294.7	45294.7	0.93%	1.49	0.03	1.52	1.53	18	3	3.05	NCHSHT
NAA0512_2-12	12	2	12	52006.2	52006.2	1.16%	1.95	0.05	2.00	2.10	18	3	4.10	NCHSHT
NAA0612_2-12	12	2	12	45160.3	45160.3	0.62%	1.58	0.06	1.64	1.38	24	4	3.03	NCHSHT
NAA0712_2-12	12	2	12	47067.7	47067.7	0.86%	1.24	0.03	1.27	0.64	12	2	1.91	NCHSHT
NAA0812_2-12	12	2	12	41811.9	41811.9	0.68%	1.39	0.04	1.43	1.10	24	4	2.54	NCHSHT
NAA0912_2-12	12	2	12	50064.2	50064.2	0.91%	1.90	0.05	1.94	2.17	18	3	4.12	NCHSHT
NAA0018_2-12	12	2	18	59825.3	59825.3	0.18%	3.69	0.04	3.73	4.35	40	5	8.08	NCHSHT
NAA0118_2-12	12	2	18	61500.7	61500.7	0.26%	3.31	0.06	3.37	3.43	32	4	6.80	NCHSHT
NAA0218_2-12	12	2	18	64693.6	64693.6	0.27%	4.58	0.05	4.63	4.88	32	4	9.51	NCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0318_2-12	12	2	18	75002.0	75002.0	0.49%	3.13	0.08	3.21	5.64	40	5	8.84	NCHSHT
NAA0418_2-12	12	2	18	67578.4	67578.4	0.85%	4.10	0.06	4.16	8.28	56	7	12.44	NCHSHT
NAA0518_2-12	12	2	18	73834.3	73834.3	0.52%	4.08	0.10	4.18	10.44	32	4	14.62	NCHSHT
NAA0618_2-12	12	2	18	65111.5	65111.5	0.36%	2.84	0.06	2.90	4.94	24	3	7.84	NCHSHT
NAA0718_2-12	12	2	18	67467.6	67467.6	0.23%	2.19	0.05	2.24	2.69	32	4	4.93	NCHSHT
NAA0818_2-12	12	2	18	64221.4	64221.4	0.41%	2.74	0.06	2.80	5.14	32	4	7.94	NCHSHT
NAA0918_2-12	12	2	18	72369.4	72369.4	0.48%	3.97	0.06	4.04	8.16	32	4	12.20	NCHSHT
NAA006_2-25	25	2	6	47826.0	47826.0	0.37%	0.75	0.03	0.78	0.85	10	2	1.64	NCHSHT
NAA016_2-25	25	2	6	48929.9	48929.9	0.52%	0.66	0.03	0.69	0.36	10	2	1.05	NCHSHT
NAA026_2-25	25	2	6	51063.5	51063.5	0.57%	0.90	0.04	0.94	1.81	20	4	2.75	NCHSHT
NAA036_2-25	25	2	6	53015.2	53015.2	0.67%	0.75	0.05	0.81	0.65	10	2	1.46	NCHSHT
NAA046_2-25	25	2	6	53854.7	53854.7	0.59%	0.81	0.04	0.85	2.38	15	3	3.23	NCHSHT
NAA056_2-25	25	2	6	56760.5	56760.5	0.65%	0.98	0.03	1.02	1.82	15	3	2.84	NCHSHT
NAA066_2-25	25	2	6	46078.7	46078.7	0.28%	0.73	0.04	0.77	0.67	15	3	1.44	NCHSHT
NAA076_2-25	25	2	6	51629.7	51629.7	0.58%	0.79	0.04	0.84	1.04	15	3	1.88	NCHSHT
NAA086_2-25	25	2	6	54043.7	54043.7	0.35%	0.78	0.03	0.82	2.43	15	3	3.25	NCHSHT
NAA096_2-25	25	2	6	59064.2	59064.2	0.21%	0.85	0.03	0.88	0.73	10	2	1.61	NCHSHT
NAA0012_2-25	25	2	12	88835.6	88835.6	0.43%	2.84	0.09	2.93	8.35	30	5	11.28	NCHSHT
NAA0112_2-25	25	2	12	93814.9	93814.9	0.06%	3.05	0.11	3.16	7.57	36	6	10.73	NCHSHT
NAA0212_2-25	25	2	12	91085.8	91085.8	0.91%	2.60	0.11	2.71	2.87	18	3	5.58	NCHSHT
NAA0312_2-25	25	2	12	94633.7	94633.7	0.45%	2.66	0.11	2.77	6.44	24	4	9.20	NCHSHT
NAA0412_2-25	25	2	12	93029.4	93029.4	0.19%	2.40	0.07	2.47	2.15	24	4	4.63	NCHSHT
NAA0512_2-25	25	2	12	105937.7	105937.7	0.52%	3.40	0.10	3.51	16.10	30	5	19.61	NCHSHT
NAA0612_2-25	25	2	12	90181.5	90181.5	0.46%	2.93	0.06	2.99	2.93	24	4	5.93	NCHSHT
NAA0712_2-25	25	2	12	96301.5	96301.5	0.47%	2.91	0.06	2.97	5.75	24	4	8.72	NCHSHT
NAA0812_2-25	25	2	12	98650.4	98650.4	0.79%	3.41	0.04	3.45	8.99	30	5	12.44	NCHSHT
NAA0912_2-25	25	2	12	103814.6	103814.6	0.75%	2.65	0.07	2.72	5.72	24	4	8.45	NCHSHT
NAA0018_2-25	25	2	18	129367.2	129367.2	0.49%	6.24	0.10	6.34	27.86	32	4	34.21	NCHSHT
NAA0118_2-25	25	2	18	132657.7	132657.7	0.14%	4.90	0.09	4.99	13.16	32	4	18.16	NCHSHT
NAA0218_2-25	25	2	18	130505.3	130505.3	0.58%	7.74	0.10	7.84	23.05	24	3	30.89	NCHSHT
NAA0318_2-25	25	2	18	142317.0	142317.0	0.24%	4.92	0.11	5.03	38.74	40	5	43.77	NCHSHT
NAA0418_2-25	25	2	18	136827.3	136827.3	0.40%	7.01	0.07	7.09	17.79	32	4	24.88	NCHSHT
NAA0518_2-25	25	2	18	149145.4	149145.4	0.64%	7.23	0.19	7.42	24.38	32	4	31.80	NCHSHT
NAA0618_2-25	25	2	18	127054.6	127054.6	0.25%	5.01	0.07	5.09	11.89	32	4	16.99	NCHSHT
NAA0718_2-25	25	2	18	140788.6	140788.6	0.36%	7.38	0.07	7.46	29.35	32	4	36.81	NCHSHT
NAA0818_2-25	25	2	18	139446.5	139446.5	0.34%	6.77	0.13	6.90	25.81	32	4	32.71	NCHSHT
NAA0918_2-25	25	2	18	148264.9	148264.9	0.38%	7.56	0.10	7.66	31.50	40	5	39.17	NCHSHT
NAA006_2-50	50	2	6	94215.0	94215.0	0.23%	1.47	0.03	1.50	1.41	10	2	2.92	NCHSHT
NAA016_2-50	50	2	6	98214.3	98214.3	0.32%	1.46	0.05	1.52	2.73	15	3	4.25	NCHSHT
NAA026_2-50	50	2	6	94748.8	94748.8	0.34%	1.30	0.04	1.35	1.79	10	2	2.94	NCHSHT
NAA036_2-50	50	2	6	102507.5	102507.5	0.02%	1.31	0.08	1.39	1.73	15	3	3.12	NCHSHT
NAA046_2-50	50	2	6	106711.9	106711.9	0.18%	1.67	0.09	1.76	6.26	25	5	8.02	NCHSHT
NAA056_2-50	50	2	6	104564.7	104564.7	0.16%	1.29	0.08	1.37	6.38	25	5	7.75	NCHSHT
NAA066_2-50	50	2	6	94702.8	94702.8	0.29%	1.34	0.07	1.41	2.13	10	2	3.55	NCHSHT
NAA076_2-50	50	2	6	101694.7	101694.7	0.30%	1.59	0.07	1.66	5.78	15	3	7.44	NCHSHT
NAA086_2-50	50	2	6	99867.2	99867.2	0.28%	1.56	0.03	1.59	2.60	15	3	4.20	NCHSHT
NAA096_2-50	50	2	6	102938.4	102938.4	0.10%	1.53	0.03	1.56	1.76	15	3	3.33	NCHSHT
NAA0012_2-50	50	2	12	176493.2	176493.2	0.10%	4.09	0.33	4.42	9.80	24	4	14.22	NCHSHT
NAA0112_2-50	50	2	12	184288.7	184288.7	0.09%	4.05	0.13	4.18	7.54	24	4	11.72	NCHSHT
NAA0212_2-50	50	2	12	177074.4	177074.4	0.50%	4.63	0.13	4.77	15.43	18	3	20.20	NCHSHT
NAA0312_2-50	50	2	12	189847.8	189847.8	0.16%	3.59	0.14	3.73	9.30	24	4	13.04	NCHSHT
NAA0412_2-50	50	2	12	194669.4	194669.4	0.34%	5.15	0.08	5.24	36.19	24	4	41.43	NCHSHT
NAA0512_2-50	50	2	12	193013.1	193013.1	0.24%	3.89	0.17	4.08	19.68	24	4	23.77	NCHSHT
NAA0612_2-50	50	2	12	174297.2	174297.2	0.13%	3.63	0.26	3.89	8.52	24	4	12.41	NCHSHT
NAA0712_2-50	50	2	12	184092.3	184092.3	0.12%	5.05	0.09	5.16	20.43	18	3	25.58	NCHSHT
NAA0812_2-50	50	2	12	179409.4	179409.4	0.14%	4.05	0.15	4.20	42.67	30	5	46.87	NCHSHT
NAA0912_2-50	50	2	12	190324.8	190324.8	0.34%	4.84	0.14	4.98	10.01	24	4	14.99	NCHSHT
NAA0018_2-50	50	2	18	259379.1	259379.1	0.15%	7.44	0.17	7.61	26.14	24	3	33.76	NCHSHT
NAA0118_2-50	50	2	18	267853.8	267853.8	0.09%	8.44	0.27	8.72	44.50	40	5	53.22	NCHSHT
NAA0218_2-50	50	2	18	255828.9	255828.9	0.12%	9.04	0.28	9.32	61.83	32	4	71.15	NCHSHT
NAA0318_2-50	50	2	18	279003.6	279003.6	0.09%	8.49	0.15	8.65	76.36	40	5	85.01	NCHSHT
NAA0418_2-50	50	2	18	283552.4	283552.4	0.34%	12.15	0.22	12.37	152.14	48	6	164.52	NCHSHT
NAA0518_2-50	50	2	18	282741.5	282741.5	0.14%	9.42	0.20	9.61	51.59	32	4	61.21	NCHSHT
NAA0618_2-50	50	2	18	256029.8	256029.8	0.11%	8.77	0.15	8.92	72.42	32	4	81.34	NCHSHT
NAA0718_2-50	50	2	18	268805.9	268805.9	0.10%	9.61	0.28	9.89	87.56	40	5	97.45	NCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0818_2-50	50	2	18	263183.8	263183.8	0.17%	9.38	0.51	9.89	46.30	32	4	56.19	NCHSHT
NAA0918_2-50	50	2	18	277529.9	277529.9	0.23%	13.32	0.17	13.49	70.54	40	5	84.04	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%	0.42	0.03	0.46	0.32	20	4	0.78	NCHSHT
NAA016_4-6	6	4	6	11099.4	11099.4	0.00%	0.80	0.03	0.83	0.38	15	3	1.21	NCHSHT
NAA026_4-6	6	4	6	11626.9	11626.9	0.00%	0.58	0.03	0.61	0.19	10	2	0.81	NCHSHT
NAA036_4-6	6	4	6	12249.2	12249.2	0.82%	0.49	0.03	0.52	0.47	20	4	0.99	NCHSHT
NAA046_4-6	6	4	6	9813.3	9813.3	0.72%	0.42	0.04	0.46	0.50	15	3	0.96	NCHSHT
NAA056_4-6	6	4	6	15271.0	15271.0	2.85%	0.51	0.03	0.55	0.39	15	3	0.93	NCHSHT
NAA066_4-6	6	4	6	11991.0	11991.0	2.93%	0.48	0.04	0.52	0.59	15	3	1.11	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%	0.43	0.02	0.45	0.17	15	3	0.63	NCHSHT
NAA086_4-6	6	4	6	9743.5	9743.5	0.68%	0.39	0.03	0.43	0.22	15	3	0.64	NCHSHT
NAA096_4-6	6	4	6	14416.9	14416.9	1.00%	0.45	0.02	0.48	0.13	10	2	0.61	NCHSHT
NAA0012_4-6	6	4	12	17220.4	17220.4	0.00%	1.84	0.04	1.89	1.06	24	4	2.95	NCHSHT
NAA0112_4-6	6	4	12	23555.3	23555.3	0.32%	3.42	0.06	3.49	1.72	24	4	5.21	NCHSHT
NAA0212_4-6	6	4	12	22019.2	22019.2	0.39%	2.92	0.04	2.96	1.31	24	4	4.27	NCHSHT
NAA0312_4-6	6	4	12	24565.7	24565.7	1.12%	2.00	0.06	2.05	0.99	24	4	3.04	NCHSHT
NAA0412_4-6	6	4	12	22450.9	22450.9	3.04%	2.37	0.06	2.43	2.17	30	5	4.60	NCHSHT
NAA0512_4-6	6	4	12	29512.5	29512.5	2.04%	2.50	0.05	2.55	1.61	24	4	4.17	NCHSHT
NAA0612_4-6	6	4	12	21097.4	21097.4	2.51%	1.90	0.05	1.95	1.17	24	4	3.12	NCHSHT
NAA0712_4-6	6	4	12	23859.8	23859.8	1.51%	1.85	0.05	1.90	0.97	24	4	2.87	NCHSHT
NAA0812_4-6	6	4	12	19054.0	19054.0	0.63%	1.88	0.09	1.97	0.72	18	3	2.68	NCHSHT
NAA0912_4-6	6	4	12	25501.7	25501.7	0.64%	2.28	0.04	2.33	0.60	18	3	2.93	NCHSHT
NAA0018_4-6	6	4	18	26633.6	26633.6	0.18%	6.86	0.10	6.95	3.39	32	4	10.35	NCHSHT
NAA0118_4-6	6	4	18	31919.7	31919.7	0.06%	12.17	0.13	12.30	2.59	24	3	14.90	NCHSHT
NAA0218_4-6	6	4	18	31649.9	31649.9	0.12%	7.58	0.14	7.73	4.92	40	5	12.65	NCHSHT
NAA0318_4-6	6	4	18	36788.2	36788.2	0.16%	6.10	0.09	6.20	1.70	32	4	7.90	NCHSHT
NAA0418_4-6	6	4	18	33785.4	33785.4	2.13%	7.57	0.09	7.65	9.21	40	5	16.86	NCHSHT
NAA0518_4-6	6	4	18	41107.8	41107.8	0.00%	8.81	0.09	8.90	3.96	40	5	12.86	NCHSHT
NAA0618_4-6	6	4	18	32234.0	32234.0	0.26%	7.97	0.15	8.12	2.72	32	4	10.84	NCHSHT
NAA0718_4-6	6	4	18	35609.9	35609.9	1.14%	4.44	0.10	4.54	2.54	32	4	7.08	NCHSHT
NAA0818_4-6	6	4	18	27400.2	27400.2	0.77%	5.31	0.12	5.43	2.39	32	4	7.83	NCHSHT
NAA0918_4-6	6	4	18	37664.7	37664.7	1.02%	10.36	0.07	10.43	3.06	32	4	13.49	NCHSHT
NAA006_4-12	12	4	6	19735.5	19735.5	0.00%	0.77	0.03	0.80	1.49	20	4	2.29	NCHSHT
NAA016_4-12	12	4	6	22883.0	22883.0	0.09%	1.03	0.04	1.07	2.19	15	3	3.26	NCHSHT
NAA026_4-12	12	4	6	18491.4	18491.4	0.23%	0.63	0.03	0.67	0.30	15	3	0.97	NCHSHT
NAA036_4-12	12	4	6	20568.0	20568.0	1.90%	0.75	0.03	0.77	0.80	15	3	1.57	NCHSHT
NAA046_4-12	12	4	6	22715.8	22715.8	0.59%	0.87	0.04	0.91	0.72	15	3	1.64	NCHSHT
NAA056_4-12	12	4	6	23601.7	23601.7	0.03%	0.71	0.03	0.74	1.16	20	4	1.90	NCHSHT
NAA066_4-12	12	4	6	20881.7	20881.7	1.50%	0.49	0.04	0.53	0.42	15	3	0.95	NCHSHT
NAA076_4-12	12	4	6	20768.1	20768.1	0.08%	0.73	0.04	0.78	1.38	10	2	2.16	NCHSHT
NAA086_4-12	12	4	6	22408.1	22408.1	0.34%	0.57	0.04	0.61	0.60	15	3	1.20	NCHSHT
NAA096_4-12	12	4	6	22039.2	22039.2	3.12%	0.70	0.04	0.74	0.55	10	2	1.29	NCHSHT
NAA0012_4-12	12	4	12	36040.7	36040.7	0.97%	2.94	0.11	3.05	3.48	30	5	6.54	NCHSHT
NAA0112_4-12	12	4	12	40681.5	40681.5	0.61%	4.49	0.07	4.56	5.26	24	4	9.83	NCHSHT
NAA0212_4-12	12	4	12	37318.7	37318.7	1.29%	2.32	0.09	2.41	4.50	30	5	6.92	NCHSHT
NAA0312_4-12	12	4	12	40172.8	40172.8	1.14%	3.56	0.06	3.62	4.81	18	3	8.43	NCHSHT
NAA0412_4-12	12	4	12	41834.9	41834.9	0.34%	3.11	0.10	3.21	7.12	24	4	10.33	NCHSHT
NAA0512_4-12	12	4	12	45741.6	45741.6	1.99%	3.35	0.08	3.44	8.39	36	6	11.83	NCHSHT
NAA0612_4-12	12	4	12	39230.6	39230.6	1.28%	2.21	0.08	2.29	2.56	18	3	4.85	NCHSHT
NAA0712_4-12	12	4	12	41784.3	41784.3	0.87%	3.14	0.09	3.23	10.43	24	4	13.66	NCHSHT
NAA0812_4-12	12	4	12	41262.0	41262.0	0.17%	1.83	0.07	1.90	0.96	18	3	2.86	NCHSHT
NAA0912_4-12	12	4	12	43750.5	43750.5	0.52%	3.05	0.11	3.16	4.25	24	4	7.42	NCHSHT
NAA0018_4-12	12	4	18	54141.8	54141.8	0.53%	8.23	0.09	8.32	9.17	32	4	17.49	NCHSHT
NAA0118_4-12	12	4	18	59366.3	59366.3	0.55%	11.41	0.13	11.54	19.01	32	4	30.55	NCHSHT
NAA0218_4-12	12	4	18	53500.0	53500.0	0.19%	3.69	0.11	3.80	4.10	32	4	7.91	NCHSHT
NAA0318_4-12	12	4	18	61250.4	61250.4	1.17%	8.74	0.11	8.85	11.08	32	4	19.93	NCHSHT
NAA0418_4-12	12	4	18	61594.1	61594.1	0.57%	9.58	0.15	9.73	26.49	48	6	36.22	NCHSHT
NAA0518_4-12	12	4	18	66159.9	66159.9	1.68%	7.79	0.14	7.94	35.50	40	5	43.44	NCHSHT
NAA0618_4-12	12	4	18	58920.7	58920.7	1.13%	5.64	0.10	5.74	5.38	24	3	11.12	NCHSHT
NAA0718_4-12	12	4	18	64047.9	64047.9	1.00%	7.73	0.20	7.94	46.02	32	4	53.96	NCHSHT
NAA0818_4-12	12	4	18	62958.6	62958.6	0.67%	6.81	0.11	6.92	5.72	32	4	12.64	NCHSHT
NAA0918_4-12	12	4	18	62979.6	62979.6	1.06%	10.44	0.15	10.59	16.40	32	4	26.98	NCHSHT
NAA006_4-25	25	4	6	37050.9	37050.9	0.11%	1.37	0.05	1.43	1.64	20	4	3.07	NCHSHT
NAA016_4-25	25	4	6	45139.0	45139.0	0.29%	1.75	0.10	1.86	7.68	30	6	9.54	NCHSHT
NAA026_4-25	25	4	6	42709.0	42709.0	0.81%	1.49	0.10	1.60	25.83	25	5	27.43	NCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA036_4-25	25	4	6	42428.9	42428.9	1.00%	1.29	0.06	1.36	4.58	15	3	5.94	NCHSHT
NAA046_4-25	25	4	6	43527.6	43527.6	1.61%	1.54	0.10	1.64	5.91	25	5	7.55	NCHSHT
NAA056_4-25	25	4	6	47229.0	47229.0	0.64%	1.42	0.10	1.52	5.32	20	4	6.84	NCHSHT
NAA066_4-25	25	4	6	38369.1	38369.1	1.78%	1.10	0.07	1.16	1.41	20	4	2.58	NCHSHT
NAA076_4-25	25	4	6	42925.7	42925.7	0.47%	1.54	0.12	1.66	15.25	30	6	16.92	NCHSHT
NAA086_4-25	25	4	6	39711.2	39711.2	0.48%	1.37	0.06	1.43	2.32	10	2	3.75	NCHSHT
NAA096_4-25	25	4	6	45774.1	45774.1	1.10%	1.24	0.05	1.30	10.28	20	4	11.58	NCHSHT
NAA0012_4-25	25	4	12	74644.1	74644.1	0.20%	6.46	0.19	6.66	13.61	30	5	20.27	NCHSHT
NAA0112_4-25	25	4	12	82545.2	82545.2	0.48%	5.55	0.35	5.91	17.92	30	5	23.83	NCHSHT
NAA0212_4-25	25	4	12	78284.5	78284.5	0.75%	5.80	0.21	6.01	33.55	18	3	39.56	NCHSHT
NAA0312_4-25	25	4	12	83189.9	83189.9	0.62%	4.31	0.13	4.45	36.81	42	7	41.26	NCHSHT
NAA0412_4-25	25	4	12	83946.9	83946.9	1.02%	4.56	0.13	4.70	42.87	24	4	47.57	NCHSHT
NAA0512_4-25	25	4	12	86473.1	86473.1	0.56%	4.34	0.20	4.55	25.79	24	4	30.34	NCHSHT
NAA0612_4-25	25	4	12	73508.8	73508.8	0.21%	3.72	0.12	3.84	11.88	30	5	15.72	NCHSHT
NAA0712_4-25	25	4	12	83346.8	83346.8	0.35%	4.72	0.26	4.98	39.42	30	5	44.40	NCHSHT
NAA0812_4-25	25	4	12	77890.2	77890.2	0.21%	5.38	0.12	5.51	17.74	24	4	23.25	NCHSHT
NAA0912_4-25	25	4	12	84430.8	84430.8	0.38%	4.06	0.12	4.19	12.71	36	6	16.90	NCHSHT
NAA0018_4-25	25	4	18	108713.2	108713.2	0.40%	11.26	0.28	11.54	51.34	48	6	62.88	NCHSHT
NAA0118_4-25	25	4	18	120658.8	120658.8	0.57%	13.96	0.22	14.18	94.12	56	7	108.30	NCHSHT
NAA0218_4-25	25	4	18	116971.2	116971.2	0.82%	16.22	0.25	16.47	106.35	48	6	122.83	NCHSHT
NAA0318_4-25	25	4	18	121310.5	121310.5	0.51%	15.71	0.26	15.98	33.15	24	3	49.13	NCHSHT
NAA0418_4-25	25	4	18	123726.1	123726.1	0.44%	12.91	0.15	13.07	34.61	40	5	47.68	NCHSHT
NAA0518_4-25	25	4	18	125479.4	125479.4	0.60%	12.91	0.28	13.20	38.94	40	5	52.14	NCHSHT
NAA0618_4-25	25	4	18	110403.7	110403.7	0.13%	7.52	0.15	7.67	33.66	56	7	41.34	NCHSHT
NAA0718_4-25	25	4	18	122265.1	122265.1	0.58%	11.18	0.22	11.41	50.50	40	5	61.91	NCHSHT
NAA0818_4-25	25	4	18	112430.2	112430.2	0.45%	14.50	0.15	14.66	41.08	40	5	55.75	NCHSHT
NAA0918_4-25	25	4	18	124159.6	124159.6	0.24%	10.00	0.27	10.48	26.79	40	5	37.28	NCHSHT
NAA006_4-50	50	4	6	80729.8	80729.8	0.27%	2.52	0.12	2.64	22.93	25	5	25.56	NCHSHT
NAA016_4-50	50	4	6	83572.0	83572.0	0.08%	2.14	0.15	2.29	19.92	25	5	22.21	NCHSHT
NAA026_4-50	50	4	6	85877.7	85877.7	0.31%	2.78	0.16	2.94	16.43	15	3	19.37	NCHSHT
NAA036_4-50	50	4	6	86796.6	86796.6	0.53%	2.46	0.18	2.64	16.98	25	5	19.62	NCHSHT
NAA046_4-50	50	4	6	92798.8	92798.8	0.42%	2.79	0.16	2.95	15.76	15	3	18.71	NCHSHT
NAA056_4-50	50	4	6	87607.9	87607.9	0.37%	2.56	0.15	2.71	18.08	20	4	20.79	NCHSHT
NAA066_4-50	50	4	6	79233.7	79233.7	0.48%	2.14	0.12	2.26	2.46	15	3	4.72	NCHSHT
NAA076_4-50	50	4	6	82554.3	82554.3	0.24%	2.56	0.19	2.76	17.97	20	4	20.73	NCHSHT
NAA086_4-50	50	4	6	82696.2	82696.2	0.60%	2.09	0.13	2.22	7.98	15	3	10.20	NCHSHT
NAA096_4-50	50	4	6	93819.7	93819.7	0.28%	2.04	0.15	2.20	6.75	15	3	8.95	NCHSHT
NAA0012_4-50	50	4	12	158435.0	158435.0	0.15%	7.07	0.40	7.47	43.51	24	4	50.99	NCHSHT
NAA0112_4-50	50	4	12	156508.1	156508.1	0.13%	6.92	0.59	7.52	39.39	30	5	46.92	NCHSHT
NAA0212_4-50	50	4	12	158054.3	158054.3	0.47%	9.31	0.32	9.63	35.12	30	5	44.76	NCHSHT
NAA0312_4-50	50	4	12	165581.6	165581.6	0.41%	7.60	0.42	8.02	49.79	24	4	57.83	NCHSHT
NAA0412_4-50	50	4	12	169676.0	169676.0	0.36%	8.70	0.29	8.99	70.72	36	6	79.72	NCHSHT
NAA0512_4-50	50	4	12	164025.3	164025.3	0.33%	7.80	0.34	8.14	44.70	30	5	52.84	NCHSHT
NAA0612_4-50	50	4	12	149855.4	149855.4	0.18%	5.18	0.31	5.50	20.15	24	4	25.65	NCHSHT
NAA0712_4-50	50	4	12	160580.3	160580.3	0.21%	7.79	0.48	8.28	47.25	30	5	55.53	NCHSHT
NAA0812_4-50	50	4	12	156737.1	156737.1	0.53%	7.96	0.26	8.23	27.64	24	4	35.88	NCHSHT
NAA0912_4-50	50	4	12	171717.3	171717.3	0.08%	7.96	0.39	8.35	20.42	30	5	28.78	NCHSHT
NAA0018_4-50	50	4	18	227214.4	227214.4	0.19%	13.77	0.65	14.43	83.26	48	6	97.70	NCHSHT
NAA0118_4-50	50	4	18	231626.8	231626.8	0.22%	16.46	0.38	16.85	28.73	32	4	45.58	NCHSHT
NAA0218_4-50	50	4	18	236204.6	236204.6	0.19%	21.10	0.58	21.69	84.13	40	5	105.82	NCHSHT
NAA0318_4-50	50	4	18	241991.8	241991.8	0.11%	20.02	0.69	20.72	84.00	48	6	104.73	NCHSHT
NAA0418_4-50	50	4	18	251764.4	251764.4	0.28%	23.42	0.61	24.04	97.24	40	5	121.29	NCHSHT
NAA0518_4-50	50	4	18	242744.3	242744.3	0.19%	15.18	0.82	16.00	76.87	40	5	92.87	NCHSHT
NAA0618_4-50	50	4	18	223274.8	223274.8	0.10%	12.28	0.29	12.58	70.88	48	6	83.47	NCHSHT
NAA0718_4-50	50	4	18	239451.2	239451.2	0.22%	18.76	0.58	19.34	103.56	40	5	122.91	NCHSHT
NAA0818_4-50	50	4	18	226931.7	226931.7	0.09%	15.24	0.44	15.69	50.83	40	5	66.52	NCHSHT
NAA0918_4-50	50	4	18	250678.2	250678.2	0.14%	18.34	0.26	18.60	56.10	32	4	74.71	NCHSHT
NAA006_6-6	6	6	6	9300.6	9300.6	2.53%	0.80	0.03	0.84	0.77	20	4	1.61	NCHSHT
NAA016_6-6	6	6	6	12121.1	12121.1	0.00%	1.13	0.09	1.22	0.60	20	4	1.82	NCHSHT
NAA026_6-6	6	6	6	11179.8	11179.8	0.16%	0.77	0.07	0.84	0.36	15	3	1.20	NCHSHT
NAA036_6-6	6	6	6	13772.9	13772.9	1.10%	0.78	0.03	0.82	0.30	15	3	1.12	NCHSHT
NAA046_6-6	6	6	6	13354.0	13354.0	0.02%	0.98	0.05	1.03	0.68	25	5	1.72	NCHSHT
NAA056_6-6	6	6	6	15866.1	15866.1	1.45%	0.74	0.07	0.81	0.71	15	3	1.53	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%	0.57	0.03	0.60	0.46	15	3	1.06	NCHSHT
NAA076_6-6	6	6	6	14159.7	14159.7	0.52%	0.83	0.04	0.87	0.74	20	4	1.61	NCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA086_6-6	6	6	6	13821.8	13821.8	2.67%	0.96	0.07	1.03	0.53	15	3	1.56	NCHSHT
NAA096_6-6	6	6	6	15305.2	15305.2	1.01%	0.88	0.05	0.93	0.57	15	3	1.50	NCHSHT
NAA0012_6-6	6	6	12	19193.7	19193.7	1.51%	5.32	0.08	5.40	1.94	18	3	7.34	NCHSHT
NAA0112_6-6	6	6	12	22777.9	22777.9	0.28%	4.45	0.15	4.60	1.77	30	5	6.37	NCHSHT
NAA0212_6-6	6	6	12	23079.0	23079.0	0.57%	4.22	0.12	4.34	1.89	24	4	6.23	NCHSHT
NAA0312_6-6	6	6	12	26338.4	26338.4	1.06%	5.54	0.16	5.70	1.38	24	4	7.08	NCHSHT
NAA0412_6-6	6	6	12	25757.2	25757.2	1.08%	6.53	0.13	6.66	1.60	18	3	8.26	NCHSHT
NAA0512_6-6	6	6	12	27056.8	27056.8	1.40%	3.09	0.13	3.23	2.01	24	4	5.23	NCHSHT
NAA0612_6-6	6	6	12	22184.9	22184.9	1.72%	4.14	0.06	4.20	1.26	18	3	5.46	NCHSHT
NAA0712_6-6	6	6	12	27255.5	27255.5	0.16%	4.57	0.08	4.65	3.01	36	6	7.66	NCHSHT
NAA0812_6-6	6	6	12	25147.7	25147.7	1.84%	5.15	0.10	5.25	2.51	30	5	7.77	NCHSHT
NAA0912_6-6	6	6	12	27846.6	27846.6	0.08%	5.27	0.11	5.38	1.25	24	4	6.63	NCHSHT
NAA0018_6-6	6	6	18	28229.5	28229.5	1.01%	16.15	0.16	16.31	5.47	32	4	21.78	NCHSHT
NAA0118_6-6	6	6	18	34797.3	34797.3	0.38%	15.29	0.29	15.59	5.67	40	5	21.26	NCHSHT
NAA0218_6-6	6	6	18	31403.9	31403.9	0.09%	14.47	0.17	14.64	2.79	32	4	17.43	NCHSHT
NAA0318_6-6	6	6	18	36717.1	36717.1	1.33%	20.76	0.15	20.91	5.74	48	6	26.65	NCHSHT
NAA0418_6-6	6	6	18	37159.9	37159.9	0.42%	36.41	0.12	36.53	4.37	32	4	40.90	NCHSHT
NAA0518_6-6	6	6	18	41286.3	41286.3	0.39%	16.14	0.20	16.34	9.56	48	6	25.90	NCHSHT
NAA0618_6-6	6	6	18	32452.3	32452.3	0.64%	6.51	0.12	6.63	5.74	32	4	12.38	NCHSHT
NAA0718_6-6	6	6	18	39946.9	39946.9	0.33%	15.64	0.14	15.79	5.30	32	4	21.09	NCHSHT
NAA0818_6-6	6	6	18	39957.5	39957.5	1.41%	21.07	0.16	21.24	8.99	40	5	30.23	NCHSHT
NAA0918_6-6	6	6	18	42534.5	42534.5	0.20%	16.23	0.20	16.43	5.39	40	5	21.83	NCHSHT
NAA006_6-12	12	6	6	20153.5	20153.5	0.69%	1.34	0.06	1.41	1.00	20	4	2.41	NCHSHT
NAA016_6-12	12	6	6	20327.0	20327.0	0.55%	1.24	0.11	1.35	2.40	15	3	3.75	NCHSHT
NAA026_6-12	12	6	6	19201.3	19201.3	1.26%	1.01	0.06	1.07	1.68	20	4	2.75	NCHSHT
NAA036_6-12	12	6	6	20441.3	20441.3	2.20%	0.99	0.08	1.08	1.74	20	4	2.82	NCHSHT
NAA046_6-12	12	6	6	18596.0	18596.0	0.56%	1.07	0.07	1.15	0.47	10	2	1.61	NCHSHT
NAA056_6-12	12	6	6	20082.5	20082.5	0.98%	1.05	0.06	1.11	1.26	25	5	2.37	NCHSHT
NAA066_6-12	12	6	6	18088.9	18088.9	0.90%	0.94	0.05	0.99	1.11	20	4	2.11	NCHSHT
NAA076_6-12	12	6	6	23078.9	23078.9	0.00%	1.39	0.04	1.43	1.88	20	4	3.32	NCHSHT
NAA086_6-12	12	6	6	20662.3	20662.3	1.88%	1.34	0.06	1.40	1.88	15	3	3.28	NCHSHT
NAA096_6-12	12	6	6	23827.2	23827.2	1.13%	1.72	0.07	1.78	3.74	25	5	5.52	NCHSHT
NAA0012_6-12	12	6	12	37876.9	37876.9	1.65%	7.30	0.08	7.38	7.18	24	4	14.56	NCHSHT
NAA0112_6-12	12	6	12	39519.5	39519.5	0.57%	6.64	0.31	6.96	3.64	18	3	10.60	NCHSHT
NAA0212_6-12	12	6	12	37020.7	37020.7	0.53%	5.32	0.18	5.51	15.40	24	4	20.91	NCHSHT
NAA0312_6-12	12	6	12	40299.4	40299.4	1.52%	4.47	0.18	4.65	6.02	24	4	10.68	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%	5.79	0.20	5.99	4.39	18	3	10.38	NCHSHT
NAA0512_6-12	12	6	12	41195.1	41195.1	0.75%	5.24	0.14	5.38	7.04	30	5	12.42	NCHSHT
NAA0612_6-12	12	6	12	34479.6	34479.6	0.57%	4.49	0.13	4.63	2.29	24	4	6.92	NCHSHT
NAA0712_6-12	12	6	12	45868.4	45868.4	1.24%	6.85	0.19	7.04	22.87	24	4	29.91	NCHSHT
NAA0812_6-12	12	6	12	38120.9	38120.9	0.21%	5.53	0.12	5.65	4.99	30	5	10.64	NCHSHT
NAA0912_6-12	12	6	12	43568.8	43568.8	0.97%	5.41	0.19	5.61	4.61	24	4	10.22	NCHSHT
NAA0018_6-12	12	6	18	56278.6	56278.6	1.01%	24.18	0.18	24.36	21.67	32	4	46.03	NCHSHT
NAA0118_6-12	12	6	18	60921.8	60921.8	0.69%	18.75	0.20	18.95	14.45	40	5	33.41	NCHSHT
NAA0218_6-12	12	6	18	54864.0	54864.0	0.77%	17.94	0.23	18.16	14.80	48	6	32.97	NCHSHT
NAA0318_6-12	12	6	18	56873.9	56873.9	0.23%	9.36	0.19	9.55	15.51	48	6	25.06	NCHSHT
NAA0418_6-12	12	6	18	52484.5	52484.5	0.74%	13.45	0.27	13.71	11.09	24	3	24.80	NCHSHT
NAA0518_6-12	12	6	18	61728.7	61728.7	0.73%	17.61	0.31	17.92	8.84	32	4	26.76	NCHSHT
NAA0618_6-12	12	6	18	53943.0	53943.0	0.21%	14.67	0.13	14.81	5.34	24	3	20.15	NCHSHT
NAA0718_6-12	12	6	18	66767.8	66767.8	1.35%	20.30	0.30	20.60	40.95	32	4	61.55	NCHSHT
NAA0818_6-12	12	6	18	56891.5	56891.5	1.34%	19.41	0.44	19.85	42.41	40	5	62.27	NCHSHT
NAA0918_6-12	12	6	18	64834.7	64834.7	0.74%	19.06	0.31	19.38	16.05	40	5	35.43	NCHSHT
NAA006_6-25	25	6	6	38966.4	38966.4	0.05%	2.39	0.14	2.53	15.14	25	5	17.67	NCHSHT
NAA016_6-25	25	6	6	39812.7	39812.7	1.00%	1.82	0.14	1.97	2.80	20	4	4.77	NCHSHT
NAA026_6-25	25	6	6	41547.0	41547.0	1.14%	2.54	0.28	2.82	18.50	20	4	21.32	NCHSHT
NAA036_6-25	25	6	6	40439.8	40439.8	0.32%	2.76	0.27	3.03	14.97	25	5	18.01	NCHSHT
NAA046_6-25	25	6	6	42368.4	42368.4	0.31%	3.09	0.15	3.25	15.59	30	6	18.84	NCHSHT
NAA056_6-25	25	6	6	40345.0	40345.0	1.09%	1.81	0.19	2.00	15.31	20	4	17.31	NCHSHT
NAA066_6-25	25	6	6	38557.6	38557.6	0.32%	1.86	0.15	2.01	6.81	25	5	8.82	NCHSHT
NAA076_6-25	25	6	6	42376.1	42376.1	0.14%	2.93	0.08	3.00	5.43	25	5	8.43	NCHSHT
NAA086_6-25	25	6	6	40317.3	40317.3	0.71%	2.09	0.35	2.44	8.56	20	4	11.00	NCHSHT
NAA096_6-25	25	6	6	42859.9	42859.9	2.67%	2.48	0.11	2.59	15.36	20	4	17.95	NCHSHT
NAA0012_6-25	25	6	12	77032.4	77032.4	1.56%	9.00	0.29	9.30	64.69	36	6	74.00	NCHSHT
NAA0112_6-25	25	6	12	78722.2	78722.2	0.80%	10.64	0.17	10.83	59.75	30	5	70.58	NCHSHT
NAA0212_6-25	25	6	12	80075.0	80075.0	1.05%	10.59	0.29	10.89	54.47	30	5	65.37	NCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0312_6-25	25	6	12	77339.3	77339.3	0.74%	10.48	0.19	10.68	40.25	30	5	50.94	NCHSHT
NAA0412_6-25	25	6	12	80789.7	80789.7	1.03%	9.36	0.36	9.73	37.22	30	5	46.95	NCHSHT
NAA0512_6-25	25	6	12	76234.4	76234.4	0.45%	7.18	0.24	7.42	12.75	24	4	20.18	NCHSHT
NAA0612_6-25	25	6	12	74063.9	74063.9	0.87%	7.09	0.23	7.33	30.34	36	6	37.68	NCHSHT
NAA0712_6-25	25	6	12	77962.1	77962.1	0.60%	8.14	0.17	8.32	38.76	36	6	47.09	NCHSHT
NAA0812_6-25	25	6	12	74933.0	74933.0	0.73%	8.02	0.14	8.16	34.62	24	4	42.79	NCHSHT
NAA0912_6-25	25	6	12	81993.9	81993.9	0.80%	11.57	0.20	11.77	35.37	36	6	47.15	NCHSHT
NAA0018_6-25	25	6	18	111038.3	111038.3	0.94%	25.52	0.76	26.28	96.61	48	6	122.90	NCHSHT
NAA0118_6-25	25	6	18	117303.9	117303.9	1.02%	20.54	0.54	21.09	105.02	48	6	126.11	NCHSHT
NAA0218_6-25	25	6	18	120273.9	120273.9	0.97%	33.10	0.40	33.50	92.48	48	6	125.98	NCHSHT
NAA0318_6-25	25	6	18	116411.0	116411.0	0.96%	35.80	0.29	36.10	117.47	40	5	153.57	NCHSHT
NAA0418_6-25	25	6	18	120205.8	120205.8	0.73%	20.75	0.45	21.20	78.10	32	4	99.31	NCHSHT
NAA0518_6-25	25	6	18	117191.2	117191.2	0.57%	21.48	0.38	21.86	42.90	32	4	64.77	NCHSHT
NAA0618_6-25	25	6	18	108264.9	108264.9	0.46%	20.24	0.37	20.62	35.10	24	3	55.72	NCHSHT
NAA0718_6-25	25	6	18	114553.2	114553.2	0.36%	20.44	0.32	20.76	43.68	32	4	64.44	NCHSHT
NAA0818_6-25	25	6	18	108385.1	108385.1	0.99%	17.79	0.59	18.39	77.47	40	5	95.87	NCHSHT
NAA0918_6-25	25	6	18	121944.8	121944.8	0.92%	22.31	0.40	22.71	90.00	40	5	112.71	NCHSHT
NAA006_6-50	50	6	6	74032.4	74032.4	0.14%	3.32	0.11	3.44	10.25	20	4	13.69	NCHSHT
NAA016_6-50	50	6	6	76532.2	76532.2	0.71%	3.31	0.50	3.82	58.52	25	5	62.34	NCHSHT
NAA026_6-50	50	6	6	79012.1	79012.1	0.45%	3.76	0.29	4.06	61.32	20	4	65.38	NCHSHT
NAA036_6-50	50	6	6	77534.4	77534.4	0.06%	3.30	0.35	3.65	34.36	35	7	38.02	NCHSHT
NAA046_6-50	50	6	6	79567.0	79567.0	0.27%	3.33	0.27	3.61	35.43	25	5	39.04	NCHSHT
NAA056_6-50	50	6	6	80003.9	80003.9	0.32%	3.57	0.21	3.78	56.19	25	5	59.97	NCHSHT
NAA066_6-50	50	6	6	76847.1	76847.1	0.45%	4.61	0.34	4.95	34.28	20	4	39.24	NCHSHT
NAA076_6-50	50	6	6	80975.9	80975.9	0.18%	3.22	0.16	3.39	21.39	25	5	24.77	NCHSHT
NAA086_6-50	50	6	6	75681.1	75681.1	0.19%	3.24	0.51	3.75	31.48	25	5	35.24	NCHSHT
NAA096_6-50	50	6	6	76891.6	76891.6	0.27%	3.23	0.32	3.55	22.55	25	5	26.10	NCHSHT
NAA0012_6-50	50	6	12	144589.7	144589.7	0.16%	9.83	0.75	10.58	35.30	30	5	45.88	NCHSHT
NAA0112_6-50	50	6	12	147613.4	147613.4	0.30%	10.72	0.64	11.37	45.82	24	4	57.19	NCHSHT
NAA0212_6-50	50	6	12	152436.3	152436.3	0.53%	11.86	0.65	12.52	80.09	30	5	92.62	NCHSHT
NAA0312_6-50	50	6	12	150869.0	150869.0	0.34%	14.21	0.31	14.53	51.56	24	4	66.09	NCHSHT
NAA0412_6-50	50	6	12	157268.7	157268.7	0.29%	12.94	1.11	14.05	61.09	30	5	75.15	NCHSHT
NAA0512_6-50	50	6	12	153923.1	153923.1	0.54%	12.52	0.50	13.03	103.35	36	6	116.39	NCHSHT
NAA0612_6-50	50	6	12	145918.8	145918.8	0.50%	14.36	0.35	14.72	80.42	30	5	95.14	NCHSHT
NAA0712_6-50	50	6	12	156226.5	156226.5	0.39%	10.58	0.42	11.01	23.13	24	4	34.14	NCHSHT
NAA0812_6-50	50	6	12	142554.8	142554.8	0.28%	10.07	0.52	10.60	30.59	24	4	41.20	NCHSHT
NAA0912_6-50	50	6	12	149722.2	149722.2	0.38%	10.83	0.30	11.13	57.31	30	5	68.45	NCHSHT
NAA0018_6-50	50	6	18	214892.9	214892.9	0.40%	25.78	1.04	26.83	82.99	40	5	109.83	NCHSHT
NAA0118_6-50	50	6	18	216601.8	216601.8	0.30%	24.42	1.40	25.83	63.69	32	4	89.53	NCHSHT
NAA0218_6-50	50	6	18	221825.8	221825.8	0.19%	30.97	1.46	32.45	117.54	48	6	150.00	NCHSHT
NAA0318_6-50	50	6	18	224213.1	224213.1	0.26%	38.22	0.96	39.18	123.08	56	7	162.46	NCHSHT
NAA0418_6-50	50	6	18	234124.4	234124.4	0.28%	27.18	2.09	29.28	140.46	48	6	169.75	NCHSHT
NAA0518_6-50	50	6	18	223910.3	223910.3	0.51%	31.05	0.98	32.04	138.50	48	6	170.55	NCHSHT
NAA0618_6-50	50	6	18	217697.3	217697.3	0.67%	40.88	1.43	42.33	126.71	32	4	169.04	NCHSHT
NAA0718_6-50	50	6	18	228982.2	228982.2	0.21%	33.40	0.53	33.94	86.08	40	5	120.03	NCHSHT
NAA0818_6-50	50	6	18	213027.2	213027.2	0.16%	21.31	0.90	22.21	71.76	40	5	93.98	NCHSHT
NAA0918_6-50	50	6	18	222880.8	222880.8	0.25%	27.94	0.52	28.47	95.16	40	5	123.63	NCHSHT
NAB006_2-6	6	2	6	14641.0	14641.0	4.19%	0.29	0.02	0.31	0.47	20	4	0.78	NCHSLT
NAB016_2-6	6	2	6	11122.9	11122.9	1.37%	0.38	0.02	0.40	0.22	15	3	0.63	NCHSLT
NAB026_2-6	6	2	6	14901.1	14901.1	2.13%	0.24	0.02	0.27	0.16	10	2	0.43	NCHSLT
NAB036_2-6	6	2	6	15619.6	15619.6	4.12%	0.27	0.02	0.29	0.21	15	3	0.51	NCHSLT
NAB046_2-6	6	2	6	16980.8	16980.8	3.35%	0.34	0.02	0.36	0.32	10	2	0.68	NCHSLT
NAB056_2-6	6	2	6	16956.9	16956.9	2.35%	0.33	0.01	0.34	0.34	15	3	0.68	NCHSLT
NAB066_2-6	6	2	6	16622.4	16622.4	4.41%	0.38	0.02	0.40	0.24	10	2	0.64	NCHSLT
NAB076_2-6	6	2	6	16482.6	16482.6	0.12%	0.31	0.02	0.33	0.34	15	3	0.67	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%	0.25	0.02	0.27	0.13	15	3	0.40	NCHSLT
NAB096_2-6	6	2	6	12969.2	12969.2	0.66%	0.27	0.03	0.31	0.13	10	2	0.43	NCHSLT
NAB0012_2-6	6	2	12	24860.2	24860.2	2.32%	1.06	0.02	1.08	0.72	18	3	1.80	NCHSLT
NAB0112_2-6	6	2	12	23591.4	23591.4	1.13%	1.49	0.03	1.51	1.36	24	4	2.88	NCHSLT
NAB0212_2-6	6	2	12	27236.9	27236.9	1.84%	1.00	0.03	1.03	1.00	24	4	2.04	NCHSLT
NAB0312_2-6	6	2	12	27270.7	27270.7	1.61%	1.10	0.03	1.13	0.79	18	3	1.93	NCHSLT
NAB0412_2-6	6	2	12	27167.7	27167.7	0.94%	1.44	0.03	1.47	1.56	24	4	3.03	NCHSLT
NAB0512_2-6	6	2	12	31662.0	31662.0	2.57%	1.09	0.03	1.12	0.82	18	3	1.94	NCHSLT
NAB0612_2-6	6	2	12	28146.9	28146.9	0.48%	0.83	0.04	0.87	0.89	24	4	1.76	NCHSLT
NAB0712_2-6	6	2	12	27192.1	27192.1	1.01%	1.49	0.02	1.51	0.74	24	4	2.25	NCHSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0812_2-6	6	2	12	22512.1	22512.1	2.27%	0.98	0.03	1.01	0.70	24	4	1.71	NCHSLT
NAB0912_2-6	6	2	12	27143.1	27143.1	0.56%	1.24	0.03	1.27	0.80	18	3	2.07	NCHSLT
NAB0018_2-6	6	2	18	33520.3	33520.3	1.22%	4.68	0.03	4.71	6.47	56	7	11.19	NCHSLT
NAB0118_2-6	6	2	18	33938.1	33938.1	1.27%	3.63	0.04	3.67	2.14	24	3	5.81	NCHSLT
NAB0218_2-6	6	2	18	39583.3	39583.3	0.54%	2.61	0.07	2.68	1.36	32	4	4.04	NCHSLT
NAB0318_2-6	6	2	18	78260391.7	78260391.7	227.78%	2.83	0.05	2.88	2.17	32	4	5.05	NCHSLT
NAB0418_2-6	6	2	18	37099.5	37099.5	1.12%	5.65	0.05	5.70	3.31	32	4	9.01	NCHSLT
NAB0518_2-6	6	2	18	42569.9	42569.9	0.38%	3.39	0.07	3.46	2.20	24	3	5.66	NCHSLT
NAB0618_2-6	6	2	18	39481.3	39481.3	1.81%	2.66	0.06	2.73	3.73	40	5	6.46	NCHSLT
NAB0718_2-6	6	2	18	39414.7	39414.7	1.52%	3.67	0.04	3.71	3.01	32	4	6.72	NCHSLT
NAB0818_2-6	6	2	18	31855.6	31855.6	0.78%	2.27	0.05	2.32	2.27	48	6	4.59	NCHSLT
NAB0918_2-6	6	2	18	36295.4	36295.4	0.71%	1.97	0.03	2.00	1.52	24	3	3.53	NCHSLT
NAB006_2-12	12	2	6	21834.8	21834.8	0.21%	0.53	0.03	0.56	0.50	15	3	1.06	NCHSLT
NAB016_2-12	12	2	6	25115.4	25115.4	3.21%	0.42	0.02	0.44	0.66	20	4	1.10	NCHSLT
NAB026_2-12	12	2	6	25690.6	25690.6	0.74%	0.56	0.03	0.60	0.58	15	3	1.18	NCHSLT
NAB036_2-12	12	2	6	29581.9	29581.9	0.90%	0.35	0.03	0.38	0.55	15	3	0.94	NCHSLT
NAB046_2-12	12	2	6	25227.2	25227.2	0.06%	0.48	0.02	0.50	0.41	15	3	0.92	NCHSLT
NAB056_2-12	12	2	6	29157.7	29157.7	0.37%	0.56	0.03	0.59	0.91	15	3	1.50	NCHSLT
NAB066_2-12	12	2	6	25636.7	25636.7	0.90%	0.44	0.02	0.46	0.37	15	3	0.83	NCHSLT
NAB076_2-12	12	2	6	26057.6	26057.6	2.36%	0.46	0.03	0.48	0.25	10	2	0.73	NCHSLT
NAB086_2-12	12	2	6	24346.3	24346.3	4.28%	0.44	0.03	0.46	0.71	20	4	1.18	NCHSLT
NAB096_2-12	12	2	6	27696.8	27696.8	1.66%	0.50	0.02	0.52	0.36	10	2	0.88	NCHSLT
NAB0012_2-12	12	2	12	41488.6	41488.6	0.87%	1.64	0.03	1.67	2.34	18	3	4.02	NCHSLT
NAB0112_2-12	12	2	12	41805.0	41805.0	0.48%	1.31	0.04	1.36	1.08	18	3	2.43	NCHSLT
NAB0212_2-12	12	2	12	44671.7	44671.7	1.53%	1.70	0.05	1.75	2.27	18	3	4.02	NCHSLT
NAB0312_2-12	12	2	12	53490.3	53490.3	0.92%	1.77	0.05	1.82	1.92	18	3	3.75	NCHSLT
NAB0412_2-12	12	2	12	45524.8	45524.8	0.96%	1.50	0.03	1.53	2.28	24	4	3.81	NCHSLT
NAB0512_2-12	12	2	12	52490.1	52490.1	0.59%	2.03	0.04	2.06	1.81	12	2	3.87	NCHSLT
NAB0612_2-12	12	2	12	46353.1	46353.1	1.36%	1.78	0.05	1.83	1.32	18	3	3.15	NCHSLT
NAB0712_2-12	12	2	12	48194.3	48194.3	1.35%	1.69	0.04	1.73	3.79	30	5	5.52	NCHSLT
NAB0812_2-12	12	2	12	42288.7	42288.7	1.00%	1.31	0.04	1.35	0.98	18	3	2.33	NCHSLT
NAB0912_2-12	12	2	12	50808.9	50808.9	0.56%	2.11	0.04	2.15	3.55	24	4	5.70	NCHSLT
NAB0018_2-12	12	2	18	61796.1	61796.1	1.60%	4.77	0.06	4.82	4.05	32	4	8.87	NCHSLT
NAB0118_2-12	12	2	18	62018.9	62018.9	0.12%	3.99	0.06	4.05	2.39	24	3	6.44	NCHSLT
NAB0218_2-12	12	2	18	65689.6	65689.6	0.74%	4.69	0.06	4.75	7.79	32	4	12.54	NCHSLT
NAB0318_2-12	12	2	18	76071.2	76071.2	1.02%	3.76	0.06	3.82	11.91	40	5	15.73	NCHSLT
NAB0418_2-12	12	2	18	68199.2	68199.2	1.05%	3.79	0.06	3.85	8.45	32	4	12.30	NCHSLT
NAB0518_2-12	12	2	18	74486.4	74486.4	0.82%	4.19	0.07	4.26	11.93	48	6	16.20	NCHSLT
NAB0618_2-12	12	2	18	66624.8	66624.8	1.05%	4.54	0.08	4.62	13.25	40	5	17.86	NCHSLT
NAB0718_2-12	12	2	18	67799.4	67799.4	0.01%	3.01	0.06	3.07	4.48	32	4	7.56	NCHSLT
NAB0818_2-12	12	2	18	64983.5	64983.5	0.23%	2.66	0.05	2.71	10.07	32	4	12.78	NCHSLT
NAB0918_2-12	12	2	18	73271.1	73271.1	0.81%	4.52	0.05	4.57	12.33	32	4	16.90	NCHSLT
NAB006_2-25	25	2	6	48663.4	48663.4	0.59%	0.88	0.03	0.91	0.91	10	2	1.82	NCHSLT
NAB016_2-25	25	2	6	49628.5	49628.5	0.86%	0.70	0.03	0.72	0.77	10	2	1.49	NCHSLT
NAB026_2-25	25	2	6	52135.9	52135.9	0.15%	0.88	0.05	0.93	1.65	20	4	2.59	NCHSLT
NAB036_2-25	25	2	6	53753.1	53753.1	0.12%	0.77	0.04	0.82	1.53	15	3	2.35	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%	0.99	0.03	1.03	2.21	20	4	3.24	NCHSLT
NAB056_2-25	25	2	6	57563.6	57563.6	0.26%	0.93	0.04	0.97	2.08	15	3	3.05	NCHSLT
NAB066_2-25	25	2	6	47089.0	47089.0	1.18%	0.75	0.03	0.78	0.43	10	2	1.21	NCHSLT
NAB076_2-25	25	2	6	52335.3	52335.3	0.24%	0.88	0.03	0.92	0.86	10	2	1.78	NCHSLT
NAB086_2-25	25	2	6	55131.4	55131.4	0.24%	0.97	0.05	1.02	2.13	15	3	3.14	NCHSLT
NAB096_2-25	25	2	6	60811.0	60811.0	0.66%	0.86	0.04	0.90	2.89	15	3	3.79	NCHSLT
NAB0012_2-25	25	2	12	89226.6	89226.6	-0.05%	3.06	0.03	3.09	1.71	12	2	4.82	NCHSLT
NAB0112_2-25	25	2	12	95261.9	95261.9	0.54%	2.92	0.09	3.01	7.18	24	4	10.19	NCHSLT
NAB0212_2-25	25	2	12	92485.9	92485.9	1.18%	3.08	0.11	3.19	25.48	30	5	28.67	NCHSLT
NAB0312_2-25	25	2	12	95686.3	95686.3	0.69%	2.92	0.11	3.03	7.69	30	5	10.72	NCHSLT
NAB0412_2-25	25	2	12	94819.6	94819.6	0.65%	3.32	0.09	3.41	15.61	36	6	19.03	NCHSLT
NAB0512_2-25	25	2	12	107514.2	107514.2	0.75%	3.75	0.14	3.89	20.11	18	3	24.01	NCHSLT
NAB0612_2-25	25	2	12	91078.5	91078.5	0.41%	3.14	0.06	3.20	5.77	36	6	8.97	NCHSLT
NAB0712_2-25	25	2	12	96709.6	96709.6	0.33%	3.43	0.05	3.48	6.02	24	4	9.50	NCHSLT
NAB0812_2-25	25	2	12	99600.2	99600.2	0.78%	3.82	0.07	3.89	12.42	30	5	16.31	NCHSLT
NAB0912_2-25	25	2	12	104956.4	104956.4	0.84%	3.10	0.05	3.15	10.71	24	4	13.86	NCHSLT
NAB0018_2-25	25	2	18	130012.0	130012.0	0.44%	7.45	0.12	7.57	21.89	32	4	29.46	NCHSLT
NAB0118_2-25	25	2	18	133712.7	133712.7	0.40%	5.96	0.14	6.10	37.50	32	4	43.60	NCHSLT
NAB0218_2-25	25	2	18	131878.9	131878.9	0.74%	9.59	0.15	9.75	65.66	32	4	75.41	NCHSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0318_2-25	25	2	18	143415.0	143415.0	0.29%	5.45	0.12	5.58	50.77	40	5	56.35	NCHSLT
NAB0418_2-25	25	2	18	138531.1	138531.1	0.76%	8.01	0.12	8.13	28.72	32	4	36.85	NCHSLT
NAB0518_2-25	25	2	18	150537.3	150537.3	0.75%	8.44	0.15	8.59	58.08	24	3	66.68	NCHSLT
NAB0618_2-25	25	2	18	128070.6	128070.6	0.25%	5.72	0.09	5.82	22.97	32	4	28.79	NCHSLT
NAB0718_2-25	25	2	18	142836.7	142836.7	0.79%	9.82	0.09	9.92	72.25	40	5	82.17	NCHSLT
NAB0818_2-25	25	2	18	140552.4	140552.4	0.51%	7.65	0.11	7.75	60.42	48	6	68.18	NCHSLT
NAB0918_2-25	25	2	18	149971.3	149971.3	0.59%	7.84	0.12	7.97	30.19	24	3	38.16	NCHSLT
NAB006_2-50	50	2	6	95522.3	95522.3	0.29%	1.54	0.07	1.61	3.78	15	3	5.40	NCHSLT
NAB016_2-50	50	2	6	99233.8	99233.8	0.31%	1.44	0.07	1.51	1.76	15	3	3.27	NCHSLT
NAB026_2-50	50	2	6	96628.8	96628.8	0.55%	1.63	0.03	1.66	2.55	15	3	4.21	NCHSLT
NAB036_2-50	50	2	6	104282.4	104282.4	0.25%	1.66	0.07	1.73	2.67	10	2	4.40	NCHSLT
NAB046_2-50	50	2	6	109981.7	109981.7	0.73%	1.54	0.07	1.61	27.29	25	5	28.89	NCHSLT
NAB056_2-50	50	2	6	107536.7	107536.7	0.38%	1.48	0.09	1.58	19.54	25	5	21.12	NCHSLT
NAB066_2-50	50	2	6	97055.3	97055.3	0.69%	1.54	0.07	1.62	2.82	15	3	4.44	NCHSLT
NAB076_2-50	50	2	6	103663.1	103663.1	0.33%	1.92	0.06	1.98	7.39	20	4	9.37	NCHSLT
NAB086_2-50	50	2	6	101304.4	101304.4	0.28%	1.66	0.03	1.69	1.75	15	3	3.43	NCHSLT
NAB096_2-50	50	2	6	105508.6	105508.6	0.53%	1.59	0.08	1.68	8.93	15	3	10.60	NCHSLT
NAB0012_2-50	50	2	12	178111.4	178111.4	0.18%	4.54	0.06	4.60	16.57	24	4	21.17	NCHSLT
NAB0112_2-50	50	2	12	185466.2	185466.2	0.06%	4.05	0.07	4.12	5.35	24	4	9.47	NCHSLT
NAB0212_2-50	50	2	12	178368.4	178368.4	0.11%	4.95	0.10	5.06	10.00	24	4	15.06	NCHSLT
NAB0312_2-50	50	2	12	191121.5	191121.5	0.16%	4.27	0.10	4.37	25.20	24	4	29.57	NCHSLT
NAB0412_2-50	50	2	12	197690.9	197690.9	0.51%	6.15	0.19	6.34	75.73	24	4	82.08	NCHSLT
NAB0512_2-50	50	2	12	195210.9	195210.9	0.33%	5.13	0.13	5.26	49.21	30	5	54.47	NCHSLT
NAB0612_2-50	50	2	12	175612.5	175612.5	0.04%	4.76	0.11	4.88	4.84	24	4	9.73	NCHSLT
NAB0712_2-50	50	2	12	186921.0	186921.0	0.25%	5.66	0.07	5.74	24.97	18	3	30.71	NCHSLT
NAB0812_2-50	50	2	12	181087.9	181087.9	0.14%	5.18	0.07	5.26	26.79	24	4	32.05	NCHSLT
NAB0912_2-50	50	2	12	192414.1	192414.1	0.31%	5.55	0.10	5.65	30.91	24	4	36.57	NCHSLT
NAB0018_2-50	50	2	18	260570.7	260570.7	0.11%	8.83	0.22	9.05	27.67	32	4	36.73	NCHSLT
NAB0118_2-50	50	2	18	269151.9	269151.9	0.16%	10.91	0.21	11.13	70.25	56	7	81.38	NCHSLT
NAB0218_2-50	50	2	18	258309.9	258309.9	0.18%	11.25	0.21	11.46	64.87	32	4	76.34	NCHSLT
NAB0318_2-50	50	2	18	280592.5	280592.5	0.13%	9.12	0.20	9.32	37.59	32	4	46.92	NCHSLT
NAB0418_2-50	50	2	18	287617.7	287617.7	0.37%	15.08	0.24	15.33	171.83	40	5	187.16	NCHSLT
NAB0518_2-50	50	2	18	285682.7	285682.7	0.42%	10.30	0.25	10.55	84.65	40	5	95.20	NCHSLT
NAB0618_2-50	50	2	18	257719.7	257719.7	0.17%	10.54	0.20	10.74	47.89	32	4	58.64	NCHSLT
NAB0718_2-50	50	2	18	271586.9	271586.9	0.29%	11.83	0.13	11.96	131.55	40	5	143.51	NCHSLT
NAB0818_2-50	50	2	18	264394.8	264394.8	0.21%	9.85	0.20	10.05	40.33	24	3	50.39	NCHSLT
NAB0918_2-50	50	2	18	280161.9	280161.9	0.19%	13.71	0.14	13.86	64.13	40	5	77.99	NCHSLT
NAB006_4-6	6	4	6	9708.1	9708.1	0.50%	0.45	0.04	0.49	0.32	15	3	0.81	NCHSLT
NAB016_4-6	6	4	6	12101.8	12101.8	0.51%	0.75	0.03	0.78	0.71	10	2	1.49	NCHSLT
NAB026_4-6	6	4	6	12081.7	12081.7	0.41%	0.70	0.04	0.74	0.25	10	2	0.99	NCHSLT
NAB036_4-6	6	4	6	12986.2	12986.2	2.87%	0.57	0.03	0.61	0.72	30	6	1.33	NCHSLT
NAB046_4-6	6	4	6	10926.9	10926.9	1.30%	0.64	0.02	0.66	1.49	25	5	2.15	NCHSLT
NAB056_4-6	6	4	6	15461.9	15461.9	0.53%	0.49	0.04	0.53	0.38	15	3	0.91	NCHSLT
NAB066_4-6	6	4	6	12679.8	12679.8	2.37%	0.57	0.03	0.59	0.60	15	3	1.20	NCHSLT
NAB076_4-6	6	4	6	14070.8	14070.8	0.91%	0.47	0.04	0.51	0.40	10	2	0.91	NCHSLT
NAB086_4-6	6	4	6	10417.7	10417.7	4.52%	0.40	0.04	0.44	0.29	15	3	0.73	NCHSLT
NAB096_4-6	6	4	6	14823.0	14823.0	0.75%	0.48	0.04	0.53	0.43	15	3	0.95	NCHSLT
NAB0012_4-6	6	4	12	18200.5	18200.5	1.76%	2.91	0.04	2.95	1.04	18	3	3.99	NCHSLT
NAB0112_4-6	6	4	12	25529.0	25529.0	1.69%	3.66	0.10	3.76	3.50	24	4	7.26	NCHSLT
NAB0212_4-6	6	4	12	23233.7	23233.7	0.27%	2.94	0.06	3.00	1.42	24	4	4.42	NCHSLT
NAB0312_4-6	6	4	12	25835.7	25835.7	0.89%	1.76	0.05	1.81	0.69	18	3	2.51	NCHSLT
NAB0412_4-6	6	4	12	23875.4	23875.4	1.45%	2.99	0.08	3.07	4.14	24	4	7.21	NCHSLT
NAB0512_4-6	6	4	12	30611.1	30611.1	1.13%	2.56	0.05	2.61	1.76	30	5	4.37	NCHSLT
NAB0612_4-6	6	4	12	22496.9	22496.9	2.55%	2.31	0.06	2.37	1.36	18	3	3.74	NCHSLT
NAB0712_4-6	6	4	12	24778.9	24778.9	0.84%	2.23	0.06	2.29	1.40	30	5	3.69	NCHSLT
NAB0812_4-6	6	4	12	21053.3	21053.3	0.01%	2.01	0.10	2.11	2.62	30	5	4.74	NCHSLT
NAB0912_4-6	6	4	12	26132.2	26132.2	0.85%	3.05	0.04	3.09	0.60	18	3	3.69	NCHSLT
NAB0018_4-6	6	4	18	27503.3	27503.3	0.03%	9.58	0.09	9.67	4.63	40	5	14.31	NCHSLT
NAB0118_4-6	6	4	18	33557.4	33557.4	0.84%	18.62	0.11	18.73	5.98	40	5	24.72	NCHSLT
NAB0218_4-6	6	4	18	33479.6	33479.6	0.49%	10.45	0.09	10.55	5.87	40	5	16.41	NCHSLT
NAB0318_4-6	6	4	18	38979.8	38979.8	0.09%	6.22	0.09	6.32	5.52	40	5	11.84	NCHSLT
NAB0418_4-6	6	4	18	35144.1	35144.1	0.40%	12.81	0.09	12.91	8.38	40	5	21.30	NCHSLT
NAB0518_4-6	6	4	18	43188.2	43188.2	0.36%	10.13	0.13	10.26	3.64	32	4	13.90	NCHSLT
NAB0618_4-6	6	4	18	34809.1	34809.1	1.93%	7.62	0.14	7.77	5.76	32	4	13.53	NCHSLT
NAB0718_4-6	6	4	18	37608.1	37608.1	0.92%	5.90	0.12	6.03	5.42	40	5	11.45	NCHSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0818_4-6	6	4	18	28105.9	28105.9	0.21%	6.65	0.09	6.74	2.25	32	4	9.00	NCHSLT
NAB0918_4-6	6	4	18	38404.7	38404.7	0.67%	9.77	0.12	9.89	3.08	24	3	12.97	NCHSLT
NAB006_4-12	12	4	6	20487.4	20487.4	0.23%	0.82	0.05	0.87	0.43	10	2	1.30	NCHSLT
NAB016_4-12	12	4	6	23683.9	23683.9	0.00%	1.21	0.04	1.25	5.50	25	5	6.75	NCHSLT
NAB026_4-12	12	4	6	18953.3	18953.3	0.85%	0.73	0.08	0.81	0.83	15	3	1.64	NCHSLT
NAB036_4-12	12	4	6	21057.9	21057.9	1.55%	0.78	0.03	0.82	1.13	15	3	1.95	NCHSLT
NAB046_4-12	12	4	6	23286.1	23286.1	1.17%	1.06	0.04	1.09	0.89	15	3	1.99	NCHSLT
NAB056_4-12	12	4	6	24417.9	24417.9	0.94%	0.90	0.04	0.94	1.23	15	3	2.17	NCHSLT
NAB066_4-12	12	4	6	21360.8	21360.8	0.28%	0.68	0.05	0.73	0.86	20	4	1.60	NCHSLT
NAB076_4-12	12	4	6	22079.9	22079.9	2.16%	0.95	0.06	1.01	4.18	15	3	5.19	NCHSLT
NAB086_4-12	12	4	6	23205.5	23205.5	2.32%	0.69	0.04	0.73	0.65	10	2	1.39	NCHSLT
NAB096_4-12	12	4	6	22817.2	22817.2	1.71%	0.91	0.06	0.97	4.19	20	4	5.17	NCHSLT
NAB0012_4-12	12	4	12	36925.3	36925.3	0.90%	4.63	0.07	4.70	14.76	36	6	19.46	NCHSLT
NAB0112_4-12	12	4	12	41923.5	41923.5	1.42%	5.80	0.10	5.90	21.34	30	5	27.25	NCHSLT
NAB0212_4-12	12	4	12	37618.3	37618.3	0.51%	3.43	0.13	3.56	3.63	24	4	7.20	NCHSLT
NAB0312_4-12	12	4	12	41147.7	41147.7	0.44%	3.71	0.08	3.80	3.16	30	5	6.96	NCHSLT
NAB0412_4-12	12	4	12	42732.9	42732.9	0.54%	3.96	0.08	4.04	6.06	30	5	10.11	NCHSLT
NAB0512_4-12	12	4	12	46940.3	46940.3	2.11%	4.32	0.09	4.42	10.99	24	4	15.41	NCHSLT
NAB0612_4-12	12	4	12	40504.6	40504.6	0.97%	2.51	0.12	2.63	4.46	18	3	7.09	NCHSLT
NAB0712_4-12	12	4	12	43205.2	43205.2	1.28%	3.62	0.09	3.72	22.43	30	5	26.15	NCHSLT
NAB0812_4-12	12	4	12	42230.4	42230.4	0.89%	2.77	0.10	2.87	1.46	18	3	4.33	NCHSLT
NAB0912_4-12	12	4	12	45546.1	45546.1	1.67%	3.94	0.08	4.02	30.30	36	6	34.32	NCHSLT
NAB0018_4-12	12	4	18	54887.0	54887.0	0.75%	9.18	0.16	9.34	29.11	40	5	38.46	NCHSLT
NAB0118_4-12	12	4	18	61368.3	61368.3	1.50%	17.02	0.17	17.20	68.19	40	5	85.40	NCHSLT
NAB0218_4-12	12	4	18	54097.1	54097.1	0.40%	5.07	0.12	5.20	5.12	32	4	10.33	NCHSLT
NAB0318_4-12	12	4	18	62687.3	62687.3	0.97%	11.16	0.17	11.34	26.77	40	5	38.11	NCHSLT
NAB0418_4-12	12	4	18	63545.4	63545.4	1.41%	10.07	0.13	10.20	65.07	48	6	75.28	NCHSLT
NAB0518_4-12	12	4	18	67522.0	67522.0	1.30%	9.13	0.11	9.24	21.95	32	4	31.20	NCHSLT
NAB0618_4-12	12	4	18	59939.0	59939.0	0.61%	10.22	0.10	10.33	8.40	40	5	18.73	NCHSLT
NAB0718_4-12	12	4	18	66331.2	66331.2	1.36%	11.76	0.18	11.94	69.45	40	5	81.39	NCHSLT
NAB0818_4-12	12	4	18	63706.8	63706.8	0.35%	8.13	0.12	8.26	22.94	48	6	31.20	NCHSLT
NAB0918_4-12	12	4	18	64221.7	64221.7	0.95%	10.68	0.24	10.92	20.34	24	3	31.27	NCHSLT
NAB006_4-25	25	4	6	37960.6	37960.6	0.50%	1.82	0.08	1.91	5.10	25	5	7.01	NCHSLT
NAB016_4-25	25	4	6	46395.2	46395.2	0.69%	2.00	0.11	2.11	5.66	20	4	7.76	NCHSLT
NAB026_4-25	25	4	6	44011.7	44011.7	1.15%	1.96	0.09	2.05	34.92	30	6	36.97	NCHSLT
NAB036_4-25	25	4	6	43916.9	43916.9	1.44%	1.78	0.12	1.90	22.74	20	4	24.64	NCHSLT
NAB046_4-25	25	4	6	44492.3	44492.3	0.52%	1.81	0.10	1.91	12.72	25	5	14.63	NCHSLT
NAB056_4-25	25	4	6	48525.8	48525.8	0.94%	1.85	0.06	1.91	8.88	20	4	10.79	NCHSLT
NAB066_4-25	25	4	6	38834.4	38834.4	1.01%	1.37	0.07	1.45	3.10	25	5	4.55	NCHSLT
NAB076_4-25	25	4	6	44035.3	44035.3	0.60%	1.55	0.16	1.72	19.86	25	5	21.58	NCHSLT
NAB086_4-25	25	4	6	40515.2	40515.2	0.21%	1.80	0.12	1.92	6.19	20	4	8.10	NCHSLT
NAB096_4-25	25	4	6	46677.3	46677.3	0.76%	1.54	0.10	1.64	11.94	20	4	13.58	NCHSLT
NAB0012_4-25	25	4	12	75778.4	75778.4	0.74%	6.30	0.18	6.48	51.79	24	4	58.28	NCHSLT
NAB0112_4-25	25	4	12	84096.7	84096.7	0.88%	7.42	0.17	7.59	69.17	30	5	76.76	NCHSLT
NAB0212_4-25	25	4	12	80284.6	80284.6	1.37%	7.66	0.17	7.83	79.15	30	5	86.99	NCHSLT
NAB0312_4-25	25	4	12	84585.2	84585.2	1.16%	6.21	0.17	6.38	13.29	24	4	19.67	NCHSLT
NAB0412_4-25	25	4	12	85779.5	85779.5	1.87%	5.92	0.32	6.24	23.00	24	4	29.25	NCHSLT
NAB0512_4-25	25	4	12	87658.1	87658.1	0.44%	4.25	0.20	4.45	67.78	54	9	72.24	NCHSLT
NAB0612_4-25	25	4	12	74981.5	74981.5	0.96%	4.59	0.18	4.77	31.26	36	6	36.03	NCHSLT
NAB0712_4-25	25	4	12	84720.5	84720.5	0.86%	6.93	0.19	7.13	19.62	18	3	26.75	NCHSLT
NAB0812_4-25	25	4	12	79183.3	79183.3	0.54%	6.38	0.10	6.47	58.65	42	7	65.12	NCHSLT
NAB0912_4-25	25	4	12	85223.2	85223.2	0.33%	4.17	0.07	4.24	5.80	18	3	10.04	NCHSLT
NAB0018_4-25	25	4	18	109877.5	109877.5	0.59%	19.62	0.31	19.94	83.42	48	6	103.37	NCHSLT
NAB0118_4-25	25	4	18	122523.1	122523.1	1.10%	18.98	0.32	19.30	138.73	40	5	158.04	NCHSLT
NAB0218_4-25	25	4	18	119084.2	119084.2	1.46%	20.31	0.26	20.57	176.39	48	6	196.97	NCHSLT
NAB0318_4-25	25	4	18	122916.6	122916.6	0.91%	20.34	0.22	20.56	52.56	32	4	73.12	NCHSLT
NAB0418_4-25	25	4	18	125282.1	125282.1	0.83%	14.00	0.18	14.18	91.57	48	6	105.75	NCHSLT
NAB0518_4-25	25	4	18	126885.1	126885.1	0.50%	17.60	0.18	17.79	79.02	48	6	96.81	NCHSLT
NAB0618_4-25	25	4	18	111666.0	111666.0	0.72%	11.02	0.17	11.19	34.39	40	5	45.59	NCHSLT
NAB0718_4-25	25	4	18	123119.9	123119.9	0.43%	19.10	0.18	19.28	47.36	32	4	66.64	NCHSLT
NAB0818_4-25	25	4	18	113431.6	113431.6	0.61%	18.29	0.27	18.57	78.08	32	4	96.65	NCHSLT
NAB0918_4-25	25	4	18	125497.6	125497.6	0.64%	13.31	0.35	13.67	59.28	40	5	72.95	NCHSLT
NAB006_4-50	50	4	6	81725.1	81725.1	0.06%	3.18	0.23	3.41	19.85	20	4	23.26	NCHSLT
NAB016_4-50	50	4	6	85113.2	85113.2	0.19%	2.91	0.14	3.06	5.37	15	3	8.43	NCHSLT
NAB026_4-50	50	4	6	87261.5	87261.5	0.31%	2.94	0.14	3.30	44.16	20	4	47.46	NCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB036_4-50	50	4	6	88245.5	88245.5	0.33%	2.52	0.17	2.69	18.29	20	4	20.99	NCHSLT
NAB046_4-50	50	4	6	94718.5	94718.5	0.39%	3.07	0.16	3.24	26.61	15	3	29.85	NCHSLT
NAB056_4-50	50	4	6	89784.8	89784.8	0.55%	2.85	0.24	3.09	27.14	20	4	30.24	NCHSLT
NAB066_4-50	50	4	6	80244.4	80244.4	0.41%	2.32	0.24	2.56	5.10	15	3	7.66	NCHSLT
NAB076_4-50	50	4	6	84169.3	84169.3	0.46%	2.84	0.20	3.06	19.78	20	4	22.84	NCHSLT
NAB086_4-50	50	4	6	84507.3	84507.3	0.75%	2.73	0.26	3.00	28.06	25	5	31.06	NCHSLT
NAB096_4-50	50	4	6	94638.7	94638.7	0.06%	3.14	0.13	3.27	13.62	20	4	16.89	NCHSLT
NAB0012_4-50	50	4	12	160158.9	160158.9	0.26%	9.24	0.17	9.42	117.74	48	8	127.16	NCHSLT
NAB0112_4-50	50	4	12	158222.4	158222.4	0.43%	9.03	0.44	9.47	61.18	30	5	70.65	NCHSLT
NAB0212_4-50	50	4	12	159627.9	159627.9	0.51%	13.02	0.27	13.30	69.63	24	4	82.94	NCHSLT
NAB0312_4-50	50	4	12	167227.6	167227.6	0.56%	10.13	0.29	10.43	138.90	48	8	149.34	NCHSLT
NAB0412_4-50	50	4	12	172052.8	172052.8	0.54%	9.94	0.18	10.13	148.03	42	7	158.17	NCHSLT
NAB0512_4-50	50	4	12	165749.2	165749.2	0.47%	12.48	0.48	12.97	76.66	30	5	89.63	NCHSLT
NAB0612_4-50	50	4	12	150858.2	150858.2	0.28%	6.91	0.33	7.24	38.01	36	6	45.26	NCHSLT
NAB0712_4-50	50	4	12	163245.7	163245.7	0.67%	10.74	0.30	11.04	129.08	36	6	140.12	NCHSLT
NAB0812_4-50	50	4	12	157850.9	157850.9	0.36%	9.67	0.31	9.99	51.56	24	4	61.55	NCHSLT
NAB0912_4-50	50	4	12	172989.0	172989.0	0.27%	10.10	0.24	10.34	29.68	30	5	40.03	NCHSLT
NAB0018_4-50	50	4	18	229074.1	229074.1	0.35%	20.60	0.60	21.21	97.86	40	5	119.07	NCHSLT
NAB0118_4-50	50	4	18	233726.6	233726.6	0.52%	25.80	0.75	26.56	111.73	40	5	138.29	NCHSLT
NAB0218_4-50	50	4	18	238979.2	238979.2	0.42%	23.67	0.47	24.15	163.23	40	5	187.39	NCHSLT
NAB0318_4-50	50	4	18	243783.8	243783.8	0.25%	24.01	0.63	24.65	127.35	48	6	152.01	NCHSLT
NAB0418_4-50	50	4	18	254614.8	254614.8	0.54%	23.79	1.04	24.84	254.52	56	7	279.37	NCHSLT
NAB0518_4-50	50	4	18	244838.7	244838.7	0.35%	21.55	0.40	21.95	99.32	40	5	121.28	NCHSLT
NAB0618_4-50	50	4	18	224531.8	224531.8	0.19%	20.75	0.43	21.18	31.02	32	4	52.21	NCHSLT
NAB0718_4-50	50	4	18	242366.4	242366.4	0.62%	22.60	0.56	23.17	162.65	40	5	185.83	NCHSLT
NAB0818_4-50	50	4	18	228946.2	228946.2	0.45%	20.96	0.53	21.50	99.62	40	5	121.13	NCHSLT
NAB0918_4-50	50	4	18	252258.9	252258.9	0.26%	20.35	0.44	20.79	111.70	56	7	132.50	NCHSLT
NAB006_6-6	6	6	6	10034.7	10034.7	2.73%	0.96	0.04	1.00	0.56	15	3	1.56	NCHSLT
NAB016_6-6	6	6	6	13689.5	13689.5	1.69%	1.18	0.09	1.27	1.75	30	6	3.02	NCHSLT
NAB026_6-6	6	6	6	12420.5	12420.5	0.86%	0.88	0.05	0.93	0.43	10	2	1.36	NCHSLT
NAB036_6-6	6	6	6	14546.5	14546.5	3.66%	0.81	0.06	0.87	0.46	15	3	1.33	NCHSLT
NAB046_6-6	6	6	6	14816.0	14816.0	4.81%	1.11	0.05	1.16	0.95	20	4	2.11	NCHSLT
NAB056_6-6	6	6	6	17674.5	17674.5	3.69%	0.94	0.05	0.99	0.61	10	2	1.60	NCHSLT
NAB066_6-6	6	6	6	11865.4	11865.4	0.77%	0.53	0.05	0.58	0.59	15	3	1.17	NCHSLT
NAB076_6-6	6	6	6	15854.8	15854.8	1.81%	1.01	0.04	1.05	0.63	15	3	1.69	NCHSLT
NAB086_6-6	6	6	6	15693.7	15693.7	4.38%	1.01	0.06	1.07	1.08	20	4	2.15	NCHSLT
NAB096_6-6	6	6	6	16676.2	16676.2	1.15%	0.80	0.04	0.84	2.62	25	5	3.46	NCHSLT
NAB0012_6-6	6	6	12	20190.7	20190.7	0.06%	6.14	0.11	6.25	2.86	30	5	9.11	NCHSLT
NAB0112_6-6	6	6	12	25397.2	25397.2	0.49%	5.20	0.16	5.36	3.67	24	4	9.04	NCHSLT
NAB0212_6-6	6	6	12	24536.5	24536.5	0.73%	5.03	0.08	5.11	1.91	24	4	7.03	NCHSLT
NAB0312_6-6	6	6	12	27683.6	27683.6	0.70%	6.20	0.13	6.33	1.51	24	4	7.84	NCHSLT
NAB0412_6-6	6	6	12	27344.1	27344.1	0.13%	6.33	0.17	6.50	1.87	24	4	8.37	NCHSLT
NAB0512_6-6	6	6	12	30069.0	30069.0	1.69%	4.22	0.10	4.32	2.74	18	3	7.06	NCHSLT
NAB0612_6-6	6	6	12	24139.5	24139.5	1.42%	4.39	0.09	4.48	3.90	24	4	8.39	NCHSLT
NAB0712_6-6	6	6	12	29441.4	29441.4	1.21%	6.22	0.11	6.34	6.13	18	3	12.47	NCHSLT
NAB0812_6-6	6	6	12	27700.5	27700.5	1.95%	5.55	0.15	5.70	2.60	18	3	8.30	NCHSLT
NAB0912_6-6	6	6	12	30873.2	30873.2	1.28%	6.64	0.09	6.73	2.49	24	4	9.23	NCHSLT
NAB0018_6-6	6	6	18	29863.4	29863.4	0.96%	22.78	0.15	22.94	6.04	32	4	28.99	NCHSLT
NAB0118_6-6	6	6	18	570537681.9	570537684.0	117.53%	21.30	0.38	21.68	10.92	32	4	32.61	NCHSLT
NAB0218_6-6	6	6	18	33259.9	33259.9	0.66%	21.56	0.16	21.72	3.27	32	4	25.00	NCHSLT
NAB0318_6-6	6	6	18	39105.5	39105.5	0.52%	26.02	0.21	26.23	5.52	40	5	31.75	NCHSLT
NAB0418_6-6	6	6	18	39817.4	39817.4	0.25%	36.97	0.19	37.16	7.39	32	4	44.56	NCHSLT
NAB0518_6-6	6	6	18	45337.8	45337.8	1.32%	17.73	0.17	17.90	9.82	40	5	27.72	NCHSLT
NAB0618_6-6	6	6	18	34305.2	34305.2	0.26%	10.60	0.13	10.72	3.45	32	4	14.17	NCHSLT
NAB0718_6-6	6	6	18	43158.7	43158.7	1.08%	18.86	0.18	19.05	8.18	32	4	27.23	NCHSLT
NAB0818_6-6	6	6	18	44012.6	44012.6	1.69%	20.59	0.30	20.89	14.91	56	7	35.80	NCHSLT
NAB0918_6-6	6	6	18	47235.8	47235.8	0.50%	22.04	0.30	22.34	11.92	40	5	34.26	NCHSLT
NAB006_6-12	12	6	6	20800.5	20800.5	0.68%	1.49	0.06	1.55	4.12	15	3	5.68	NCHSLT
NAB016_6-12	12	6	6	21291.6	21291.6	0.53%	1.30	0.10	1.40	7.03	25	5	8.44	NCHSLT
NAB026_6-12	12	6	6	20353.6	20353.6	1.95%	1.97	0.08	2.04	6.34	20	4	8.38	NCHSLT
NAB036_6-12	12	6	6	20892.6	20892.6	0.27%	1.23	0.09	1.32	2.65	20	4	3.98	NCHSLT
NAB046_6-12	12	6	6	19444.1	19444.1	1.99%	1.56	0.06	1.63	1.14	15	3	2.76	NCHSLT
NAB056_6-12	12	6	6	20780.5	20780.5	1.23%	1.13	0.04	1.17	2.49	20	4	3.66	NCHSLT
NAB066_6-12	12	6	6	18601.8	18601.8	0.41%	1.14	0.12	1.26	1.96	20	4	3.22	NCHSLT
NAB076_6-12	12	6	6	24721.3	24721.3	1.66%	1.59	0.16	1.75	8.20	20	4	9.96	NCHSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB086_6-12	12	6	6	21529.5	21529.5	2.07%	1.58	0.05	1.63	2.13	15	3	3.76	NCHSLT
NAB096_6-12	12	6	6	24451.7	24451.7	0.16%	1.89	0.06	1.95	1.98	20	4	3.93	NCHSLT
NAB0012_6-12	12	6	12	38809.4	38809.4	1.62%	10.17	0.20	10.38	8.87	30	5	19.24	NCHSLT
NAB0112_6-12	12	6	12	41125.8	41125.8	1.04%	7.70	0.19	7.90	9.53	30	5	17.42	NCHSLT
NAB0212_6-12	12	6	12	39177.0	39177.0	1.79%	7.26	0.24	7.51	49.14	30	5	56.65	NCHSLT
NAB0312_6-12	12	6	12	41743.1	41743.1	2.01%	6.00	0.25	6.25	5.68	18	3	11.93	NCHSLT
NAB0412_6-12	12	6	12	36957.7	36957.7	0.94%	8.61	0.16	8.77	14.94	24	4	23.71	NCHSLT
NAB0512_6-12	12	6	12	42850.9	42850.9	0.64%	8.84	0.21	9.05	6.97	18	3	16.03	NCHSLT
NAB0612_6-12	12	6	12	35224.9	35224.9	0.36%	4.82	0.12	4.94	3.59	30	5	8.54	NCHSLT
NAB0712_6-12	12	6	12	48897.6	48897.6	2.30%	8.30	0.17	8.47	38.75	30	5	47.22	NCHSLT
NAB0812_6-12	12	6	12	40675.5	40675.5	2.34%	6.14	0.32	6.47	9.87	18	3	16.34	NCHSLT
NAB0912_6-12	12	6	12	45006.3	45006.3	0.98%	6.65	0.16	6.81	12.06	36	6	18.88	NCHSLT
NAB0018_6-12	12	6	18	57531.5	57531.5	0.73%	27.00	0.17	27.17	24.49	40	5	51.66	NCHSLT
NAB0118_6-12	12	6	18	62811.0	62811.0	0.56%	28.42	0.19	28.62	44.39	56	7	73.01	NCHSLT
NAB0218_6-12	12	6	18	57054.3	57054.3	1.42%	21.89	0.25	22.14	64.42	56	7	86.57	NCHSLT
NAB0318_6-12	12	6	18	58757.3	58757.3	0.78%	16.38	0.21	16.59	17.18	32	4	33.78	NCHSLT
NAB0418_6-12	12	6	18	53407.1	53407.1	0.50%	20.15	0.24	20.39	15.53	40	5	35.92	NCHSLT
NAB0518_6-12	12	6	18	64327.3	64327.3	1.57%	23.58	0.23	23.82	26.99	32	4	50.81	NCHSLT
NAB0618_6-12	12	6	18	55511.1	55511.1	1.25%	17.71	0.27	17.99	18.11	40	5	36.11	NCHSLT
NAB0718_6-12	12	6	18	70537.6	70537.6	1.82%	27.24	0.45	27.69	78.84	40	5	106.53	NCHSLT
NAB0818_6-12	12	6	18	59370.3	59370.3	1.46%	22.32	0.31	22.63	28.16	32	4	50.79	NCHSLT
NAB0918_6-12	12	6	18	66707.6	66707.6	0.91%	26.60	0.33	26.94	34.94	40	5	61.89	NCHSLT
NAB006_6-25	25	6	6	40293.6	40293.6	0.47%	2.60	0.16	2.76	13.42	20	4	16.19	NCHSLT
NAB016_6-25	25	6	6	40671.3	40671.3	1.06%	2.35	0.16	2.52	30.91	30	6	33.43	NCHSLT
NAB026_6-25	25	6	6	42479.1	42479.1	0.77%	2.75	0.18	2.93	12.14	15	3	15.07	NCHSLT
NAB036_6-25	25	6	6	41451.8	41451.8	0.50%	3.35	0.12	3.47	15.45	15	3	18.92	NCHSLT
NAB046_6-25	25	6	6	44085.8	44085.8	1.33%	3.29	0.15	3.44	60.51	30	6	63.95	NCHSLT
NAB056_6-25	25	6	6	41188.3	41188.3	0.77%	2.16	0.10	2.26	25.51	25	5	27.78	NCHSLT
NAB066_6-25	25	6	6	39757.6	39757.6	0.49%	2.78	0.20	2.99	14.10	20	4	17.09	NCHSLT
NAB076_6-25	25	6	6	43337.6	43337.6	0.14%	2.86	0.09	2.95	7.17	20	4	10.12	NCHSLT
NAB086_6-25	25	6	6	41653.9	41653.9	0.65%	2.63	0.20	2.83	23.85	25	5	26.67	NCHSLT
NAB096_6-25	25	6	6	43576.6	43576.6	1.62%	2.53	0.14	2.68	23.01	25	5	25.68	NCHSLT
NAB0012_6-25	25	6	12	78191.5	78191.5	1.29%	11.43	0.31	11.75	51.81	30	5	63.56	NCHSLT
NAB0112_6-25	25	6	12	81274.8	81274.8	1.86%	11.86	0.59	12.45	65.90	24	4	78.35	NCHSLT
NAB0212_6-25	25	6	12	81217.9	81217.9	1.06%	13.81	0.31	14.12	67.00	36	6	81.12	NCHSLT
NAB0312_6-25	25	6	12	79296.2	79296.2	1.66%	14.23	0.23	14.46	60.37	24	4	74.83	NCHSLT
NAB0412_6-25	25	6	12	82411.2	82411.2	1.36%	11.74	0.60	12.35	99.48	36	6	111.83	NCHSLT
NAB0512_6-25	25	6	12	78504.9	78504.9	1.76%	8.17	0.46	8.63	51.03	24	4	59.67	NCHSLT
NAB0612_6-25	25	6	12	75702.3	75702.3	1.24%	14.15	0.36	14.51	66.03	30	5	80.54	NCHSLT
NAB0712_6-25	25	6	12	78835.8	78835.8	0.63%	12.40	0.20	12.60	12.87	24	4	25.47	NCHSLT
NAB0812_6-25	25	6	12	77394.6	77394.6	1.74%	8.88	0.39	9.28	57.87	30	5	67.16	NCHSLT
NAB0912_6-25	25	6	12	84392.4	84392.4	1.78%	10.89	0.28	11.17	62.51	30	5	73.68	NCHSLT
NAB0018_6-25	25	6	18	113685.0	113685.0	1.38%	29.43	1.14	30.57	151.07	48	6	181.64	NCHSLT
NAB0118_6-25	25	6	18	119236.1	119236.1	1.20%	37.92	0.55	38.48	125.30	48	6	163.78	NCHSLT
NAB0218_6-25	25	6	18	121903.2	121903.2	1.03%	35.26	1.08	36.34	168.19	48	6	204.54	NCHSLT
NAB0318_6-25	25	6	18	118583.6	118583.6	1.37%	45.10	0.34	45.44	198.65	48	6	244.09	NCHSLT
NAB0418_6-25	25	6	18	122228.0	122228.0	1.08%	29.41	0.34	29.75	102.22	32	4	131.97	NCHSLT
NAB0518_6-25	25	6	18	118965.7	118965.7	0.84%	30.30	0.39	30.70	102.87	48	6	133.57	NCHSLT
NAB0618_6-25	25	6	18	110546.3	110546.3	0.98%	26.47	0.46	26.93	122.63	56	7	149.56	NCHSLT
NAB0718_6-25	25	6	18	116023.3	116023.3	0.56%	27.57	0.46	28.03	66.82	48	6	94.86	NCHSLT
NAB0818_6-25	25	6	18	111027.6	111027.6	1.44%	24.96	0.43	25.39	140.05	48	6	165.45	NCHSLT
NAB0918_6-25	25	6	18	124464.9	124464.9	1.32%	32.00	0.85	32.85	237.66	56	7	270.52	NCHSLT
NAB006_6-50	50	6	6	75535.9	75535.9	0.48%	3.85	0.44	4.29	17.67	15	3	21.96	NCHSLT
NAB016_6-50	50	6	6	78632.3	78632.3	0.94%	4.21	0.46	4.68	55.96	20	4	60.64	NCHSLT
NAB026_6-50	50	6	6	81166.2	81166.2	0.83%	4.28	0.57	4.85	63.52	20	4	68.37	NCHSLT
NAB036_6-50	50	6	6	79105.6	79105.6	0.43%	4.46	0.64	5.11	34.83	20	4	39.94	NCHSLT
NAB046_6-50	50	6	6	82105.4	82105.4	1.08%	4.84	0.47	5.31	83.06	20	4	88.37	NCHSLT
NAB056_6-50	50	6	6	82661.8	82661.8	0.83%	4.42	0.35	4.77	162.98	40	8	167.75	NCHSLT
NAB066_6-50	50	6	6	79142.3	79142.3	0.78%	4.88	0.36	5.24	80.26	25	5	85.50	NCHSLT
NAB076_6-50	50	6	6	82528.9	82528.9	0.59%	4.43	0.39	4.83	30.99	20	4	35.82	NCHSLT
NAB086_6-50	50	6	6	77949.0	77949.0	0.79%	4.18	0.17	4.36	26.73	20	4	31.10	NCHSLT
NAB096_6-50	50	6	6	79069.2	79069.2	0.98%	4.10	0.34	4.44	78.39	25	5	82.83	NCHSLT
NAB0012_6-50	50	6	12	146847.6	146847.6	0.62%	14.90	0.79	15.69	128.70	36	6	144.40	NCHSLT
NAB0112_6-50	50	6	12	150370.8	150370.8	1.02%	15.26	0.62	15.88	88.58	24	4	104.47	NCHSLT
NAB0212_6-50	50	6	12	154298.7	154298.7	0.70%	17.26	1.28	18.54	179.86	42	7	198.40	NCHSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0312_6-50	50	6	12	152647.6	152647.6	0.52%	15.67	0.49	16.17	104.96	42	7	121.13	NCHSLT
NAB0412_6-50	50	6	12	159861.8	159861.8	0.71%	16.96	0.83	17.80	157.58	42	7	175.38	NCHSLT
NAB0512_6-50	50	6	12	157760.0	157760.0	0.94%	16.17	0.78	16.96	195.72	54	9	212.69	NCHSLT
NAB0612_6-50	50	6	12	148676.5	148676.5	0.81%	19.22	0.97	20.20	107.30	24	4	127.51	NCHSLT
NAB0712_6-50	50	6	12	157547.7	157547.7	0.48%	15.36	0.52	15.89	58.15	24	4	74.04	NCHSLT
NAB0812_6-50	50	6	12	144445.8	144445.8	0.60%	10.93	0.77	11.71	69.68	30	5	81.39	NCHSLT
NAB0912_6-50	50	6	12	151891.1	151891.1	0.54%	14.28	0.60	14.89	86.96	24	4	101.86	NCHSLT
NAB0018_6-50	50	6	18	216880.1	216880.1	0.51%	43.29	2.18	45.48	203.70	56	7	249.19	NCHSLT
NAB0118_6-50	50	6	18	219448.0	219448.0	0.53%	37.92	1.94	39.87	167.87	56	7	207.74	NCHSLT
NAB0218_6-50	50	6	18	225060.2	225060.2	0.66%	43.48	1.94	45.43	296.68	56	7	342.12	NCHSLT
NAB0318_6-50	50	6	18	226750.6	226750.6	0.54%	43.96	1.51	45.49	288.89	64	8	334.38	NCHSLT
NAB0418_6-50	50	6	18	237765.3	237765.3	0.84%	46.57	1.00	47.57	249.18	48	6	296.77	NCHSLT
NAB0518_6-50	50	6	18	227309.1	227309.1	0.91%	46.82	1.06	47.90	213.28	48	6	261.19	NCHSLT
NAB0618_6-50	50	6	18	220803.2	220827.6	0.83%	54.12	0.80	54.93	600.03	80	10	654.97	NCHSLT
NAB0718_6-50	50	6	18	231165.5	231165.5	0.56%	45.03	0.67	45.71	180.77	40	5	226.49	NCHSLT
NAB0818_6-50	50	6	18	215743.3	215743.3	0.49%	40.96	1.33	42.31	128.28	48	6	170.59	NCHSLT
NAB0918_6-50	50	6	18	225209.5	225209.5	0.63%	43.45	1.59	45.05	270.26	56	7	315.31	NCHSLT
NBA006_2-6	6	2	6	8039.6	8039.6	0.00%	0.32	0.02	0.34	0.32	15	3	0.66	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%	0.13	0.01	0.15	0.10	15	3	0.24	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%	0.20	0.02	0.22	0.16	10	2	0.37	NCLSHT
NBA036_2-6	6	2	6	7687.7	7687.7	0.00%	0.19	0.02	0.21	0.26	15	3	0.47	NCLSHT
NBA046_2-6	6	2	6	7736.2	7736.2	0.00%	0.36	0.02	0.38	0.21	10	2	0.59	NCLSHT
NBA056_2-6	6	2	6	9352.7	9352.7	0.12%	0.24	0.02	0.27	0.14	15	3	0.41	NCLSHT
NBA066_2-6	6	2	6	8003.7	8003.7	0.08%	0.21	0.02	0.23	0.17	15	3	0.41	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%	0.25	0.02	0.27	0.07	5	1	0.34	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%	0.25	0.01	0.27	0.21	15	3	0.48	NCLSHT
NBA096_2-6	6	2	6	7096.5	7096.5	0.11%	0.15	0.01	0.17	0.12	15	3	0.29	NCLSHT
NBA0012_2-6	6	2	12	15363.1	15363.1	0.08%	1.09	0.02	1.11	0.93	24	4	2.04	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%	0.91	0.02	0.94	0.35	18	3	1.29	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%	0.96	0.03	0.99	0.18	12	2	1.16	NCLSHT
NBA0312_2-6	6	2	12	14543.1	14543.1	0.19%	1.10	0.02	1.12	0.56	18	3	1.68	NCLSHT
NBA0412_2-6	6	2	12	13513.2	13513.2	0.23%	1.19	0.02	1.21	1.39	24	4	2.60	NCLSHT
NBA0512_2-6	6	2	12	17237.2	17237.2	0.00%	0.53	0.03	0.56	0.20	12	2	0.76	NCLSHT
NBA0612_2-6	6	2	12	14774.7	14774.7	0.03%	0.45	0.02	0.47	0.24	12	2	0.72	NCLSHT
NBA0712_2-6	6	2	12	16549.4	16549.4	0.04%	0.83	0.03	0.85	0.51	12	2	1.36	NCLSHT
NBA0812_2-6	6	2	12	14109.8	14109.8	0.07%	0.79	0.02	0.82	0.38	12	2	1.20	NCLSHT
NBA0912_2-6	6	2	12	16067.0	16067.0	0.06%	0.46	0.03	0.49	0.27	12	2	0.76	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%	2.85	0.03	2.88	1.97	24	3	4.86	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%	1.03	0.03	1.06	0.46	16	2	1.52	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%	2.19	0.04	2.23	1.16	24	3	3.39	NCLSHT
NBA0318_2-6	6	2	18	22934.8	22934.8	0.04%	2.59	0.03	2.63	0.98	24	3	3.61	NCLSHT
NBA0418_2-6	6	2	18	19868.0	19868.0	0.08%	3.06	0.03	3.09	1.88	24	3	4.97	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%	1.02	0.03	1.05	0.48	16	2	1.53	NCLSHT
NBA0618_2-6	6	2	18	22620.7	22620.7	0.00%	1.59	0.03	1.62	1.02	24	3	2.64	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%	3.10	0.05	3.15	1.76	24	3	4.91	NCLSHT
NBA0818_2-6	6	2	18	20733.7	20733.7	0.03%	1.77	0.04	1.81	1.39	32	4	3.20	NCLSHT
NBA0918_2-6	6	2	18	22402.4	22402.4	0.00%	0.94	0.03	0.97	0.76	24	3	1.73	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%	0.24	0.03	0.28	0.17	15	3	0.45	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%	0.34	0.02	0.35	0.28	15	3	0.63	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%	0.45	0.02	0.47	0.39	15	3	0.86	NCLSHT
NBA036_2-12	12	2	6	16320.8	16320.8	0.13%	0.30	0.03	0.33	0.27	15	3	0.60	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%	0.37	0.02	0.39	0.13	10	2	0.51	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%	0.25	0.02	0.27	0.15	10	2	0.42	NCLSHT
NBA066_2-12	12	2	6	13727.3	13727.3	0.00%	0.33	0.02	0.35	0.15	10	2	0.50	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%	0.28	0.01	0.29	0.05	5	1	0.34	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%	0.38	0.01	0.39	0.26	15	3	0.66	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%	0.52	0.02	0.53	0.53	15	3	1.06	NCLSHT
NBA0012_2-12	12	2	12	26002.2	26002.2	0.02%	0.61	0.03	0.64	0.23	12	2	0.87	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%	0.81	0.02	0.83	0.51	18	3	1.34	NCLSHT
NBA0212_2-12	12	2	12	26947.9	26947.9	0.06%	1.78	0.04	1.82	0.69	12	2	2.52	NCLSHT
NBA0312_2-12	12	2	12	31645.6	31645.6	0.00%	0.96	0.03	0.99	0.81	24	4	1.80	NCLSHT
NBA0412_2-12	12	2	12	28154.4	28154.4	0.02%	1.00	0.04	1.04	0.57	18	3	1.61	NCLSHT
NBA0512_2-12	12	2	12	31963.7	31963.7	0.00%	0.87	0.04	0.91	0.50	18	3	1.41	NCLSHT
NBA0612_2-12	12	2	12	27147.6	27147.6	0.05%	0.81	0.04	0.85	0.43	18	3	1.28	NCLSHT
NBA0712_2-12	12	2	12	30161.7	30161.7	0.01%	0.89	0.03	0.92	0.43	18	3	1.35	NCLSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0812_2-12	12	2	12	26619.3	26619.3	0.09%	1.46	0.05	1.50	0.90	18	3	2.41	NCLSHT
NBA0912_2-12	12	2	12	30780.3	30780.3	0.07%	1.59	0.04	1.63	1.80	18	3	3.43	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%	1.37	0.05	1.42	0.63	16	2	2.07	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%	2.24	0.03	2.27	1.47	24	3	3.75	NCLSHT
NBA0218_2-12	12	2	18	41233.6	41233.6	0.04%	4.31	0.05	4.36	4.94	32	4	9.30	NCLSHT
NBA0318_2-12	12	2	18	46064.5	46064.5	0.00%	1.95	0.07	2.03	1.26	16	2	3.29	NCLSHT
NBA0418_2-12	12	2	18	44030.3	44030.3	0.00%	1.90	0.04	1.94	2.20	32	4	4.13	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%	1.81	0.05	1.86	1.65	24	3	3.51	NCLSHT
NBA0618_2-12	12	2	18	40466.9	40466.9	0.03%	2.06	0.05	2.10	1.46	24	3	3.56	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%	1.58	0.04	1.62	1.31	24	3	2.93	NCLSHT
NBA0818_2-12	12	2	18	41119.5	41119.5	0.00%	3.88	0.06	3.94	2.19	24	3	6.13	NCLSHT
NBA0918_2-12	12	2	18	46895.1	46895.1	0.04%	3.97	0.06	4.04	5.32	32	4	9.36	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%	0.45	0.02	0.47	0.31	10	2	0.78	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%	0.65	0.03	0.68	0.30	10	2	0.98	NCLSHT
NBA026_2-25	25	2	6	28301.4	28301.4	0.03%	0.78	0.03	0.80	0.83	15	3	1.64	NCLSHT
NBA036_2-25	25	2	6	30085.3	30085.3	0.02%	0.61	0.03	0.64	0.50	15	3	1.14	NCLSHT
NBA046_2-25	25	2	6	31276.7	31276.7	0.03%	0.77	0.05	0.82	0.60	15	3	1.42	NCLSHT
NBA056_2-25	25	2	6	31274.3	31274.3	0.05%	0.68	0.03	0.71	0.99	15	3	1.69	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%	0.46	0.02	0.47	0.34	20	4	0.81	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%	0.89	0.03	0.93	0.44	10	2	1.37	NCLSHT
NBA086_2-25	25	2	6	31889.1	31889.1	0.04%	0.80	0.05	0.85	0.86	10	2	1.71	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%	0.79	0.05	0.84	0.59	15	3	1.43	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%	0.94	0.04	0.98	0.71	18	3	1.68	NCLSHT
NBA0112_2-25	25	2	12	60769.6	60769.6	0.03%	1.58	0.06	1.64	1.05	18	3	2.69	NCLSHT
NBA0212_2-25	25	2	12	56021.5	56021.5	0.08%	2.67	0.06	2.73	2.69	24	4	5.41	NCLSHT
NBA0312_2-25	25	2	12	59049.0	59049.0	0.03%	2.17	0.05	2.22	2.44	30	5	4.67	NCLSHT
NBA0412_2-25	25	2	12	59434.9	59434.9	0.00%	2.10	0.07	2.17	1.21	18	3	3.38	NCLSHT
NBA0512_2-25	25	2	12	64684.5	64684.5	0.05%	2.38	0.07	2.47	2.22	30	5	4.69	NCLSHT
NBA0612_2-25	25	2	12	57094.2	57094.2	0.00%	0.95	0.04	1.00	0.45	12	2	1.45	NCLSHT
NBA0712_2-25	25	2	12	62593.4	62593.4	0.00%	2.19	0.05	2.24	1.51	24	4	3.75	NCLSHT
NBA0812_2-25	25	2	12	62481.7	62481.7	0.03%	2.81	0.07	2.88	3.20	18	3	6.08	NCLSHT
NBA0912_2-25	25	2	12	63784.5	63784.5	0.01%	1.51	0.04	1.55	0.96	18	3	2.51	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%	1.30	0.10	1.41	1.60	24	3	3.01	NCLSHT
NBA0118_2-25	25	2	18	88423.4	88423.4	0.00%	3.67	0.07	3.74	2.20	24	3	5.95	NCLSHT
NBA0218_2-25	25	2	18	82860.4	82860.4	0.00%	4.38	0.06	4.44	4.15	24	3	8.59	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%	3.27	0.14	3.41	4.21	32	4	7.62	NCLSHT
NBA0418_2-25	25	2	18	90279.1	90279.1	0.01%	5.35	0.09	5.44	4.10	24	3	9.54	NCLSHT
NBA0518_2-25	25	2	18	94606.7	94606.7	0.00%	4.68	0.09	4.77	8.13	32	4	12.90	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%	0.97	0.08	1.06	1.23	24	3	2.29	NCLSHT
NBA0718_2-25	25	2	18	91886.6	91886.6	0.01%	5.14	0.08	5.23	3.29	24	3	8.52	NCLSHT
NBA0818_2-25	25	2	18	91130.9	91130.9	0.04%	5.59	0.10	5.69	11.07	40	5	16.76	NCLSHT
NBA0918_2-25	25	2	18	92812.9	92812.9	0.01%	3.12	0.10	3.23	2.86	24	3	6.08	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%	0.94	0.03	0.97	0.64	15	3	1.60	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%	1.03	0.03	1.06	0.46	10	2	1.52	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%	1.07	0.05	1.12	1.11	15	3	2.23	NCLSHT
NBA036_2-50	50	2	6	59061.8	59061.8	0.00%	1.09	0.04	1.13	0.55	10	2	1.68	NCLSHT
NBA046_2-50	50	2	6	60545.4	60545.4	0.02%	1.28	0.04	1.33	0.96	15	3	2.28	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%	1.11	0.05	1.16	0.46	10	2	1.62	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%	0.89	0.03	0.92	0.46	10	2	1.38	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%	0.96	0.03	0.99	0.48	10	2	1.47	NCLSHT
NBA086_2-50	50	2	6	59808.4	59808.4	0.06%	1.32	0.03	1.36	1.73	20	4	3.09	NCLSHT
NBA096_2-50	50	2	6	60440.5	60440.5	0.00%	1.22	0.04	1.26	0.89	15	3	2.15	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%	1.66	0.05	1.71	0.74	12	2	2.45	NCLSHT
NBA0112_2-50	50	2	12	119723.4	119723.4	0.00%	2.37	0.06	2.43	1.24	18	3	3.68	NCLSHT
NBA0212_2-50	50	2	12	113786.0	113786.0	0.01%	2.89	0.14	3.03	2.85	12	2	5.88	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%	2.12	0.07	2.20	0.95	12	2	3.15	NCLSHT
NBA0412_2-50	50	2	12	121774.5	121774.5	0.01%	3.03	0.08	3.11	3.07	24	4	6.19	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%	2.15	0.05	2.20	1.55	12	2	3.76	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%	1.96	0.11	2.07	0.96	12	2	3.03	NCLSHT
NBA0712_2-50	50	2	12	114488.3	114488.3	0.00%	2.17	0.06	2.23	2.17	18	3	4.40	NCLSHT
NBA0812_2-50	50	2	12	115048.3	115048.3	0.02%	4.11	0.06	4.17	2.78	18	3	6.96	NCLSHT
NBA0912_2-50	50	2	12	122211.6	122211.6	0.00%	3.29	0.07	3.38	1.48	18	3	4.86	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%	3.00	0.13	3.13	2.80	24	3	5.93	NCLSHT
NBA0118_2-50	50	2	18	178656.8	178656.8	0.00%	3.03	0.26	3.30	3.02	16	2	6.33	NCLSHT
NBA0218_2-50	50	2	18	169393.0	169393.0	0.01%	5.75	0.13	5.88	5.90	32	4	11.80	NCLSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0318_2-50	50	2	18	180843.3	180843.3	0.00%	3.72	0.14	3.86	5.26	24	3	9.11	NCLSHT
NBA0418_2-50	50	2	18	181173.8	181173.8	0.02%	8.54	0.10	8.64	12.07	32	4	20.71	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%	3.13	0.13	3.27	1.99	16	2	5.27	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%	3.84	0.09	3.93	3.48	24	3	7.42	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%	4.17	0.11	4.29	5.94	32	4	10.23	NCLSHT
NBA0818_2-50	50	2	18	173121.2	173121.2	0.01%	6.54	0.12	6.67	10.27	32	4	16.94	NCLSHT
NBA0918_2-50	50	2	18	182592.7	182592.7	0.00%	5.60	0.10	5.70	4.24	24	3	9.94	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%	0.26	0.03	0.29	0.18	15	3	0.47	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%	0.57	0.02	0.59	0.17	10	2	0.76	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%	0.45	0.03	0.48	0.14	10	2	0.62	NCLSHT
NBA036_4-6	6	4	6	6633.5	6633.5	0.21%	0.64	0.05	0.69	0.32	10	2	1.01	NCLSHT
NBA046_4-6	6	4	6	5447.3	5447.3	0.31%	0.32	0.02	0.34	0.16	15	3	0.50	NCLSHT
NBA056_4-6	6	4	6	7730.1	7730.1	0.38%	0.54	0.03	0.57	0.34	15	3	0.91	NCLSHT
NBA066_4-6	6	4	6	6284.0	6284.0	0.26%	0.52	0.02	0.55	0.25	10	2	0.80	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%	0.58	0.02	0.60	0.21	15	3	0.81	NCLSHT
NBA086_4-6	6	4	6	7592.0	7592.0	0.00%	0.59	0.02	0.62	0.25	15	3	0.87	NCLSHT
NBA096_4-6	6	4	6	8498.8	8498.8	0.20%	0.58	0.02	0.60	0.31	10	2	0.92	NCLSHT
NBA0012_4-6	6	4	12	11580.9	11580.9	0.00%	1.32	0.04	1.37	0.62	24	4	1.99	NCLSHT
NBA0112_4-6	6	4	12	15067.7	15067.7	0.07%	3.05	0.06	3.11	2.24	24	4	5.34	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%	1.95	0.05	2.00	0.60	18	3	2.61	NCLSHT
NBA0312_4-6	6	4	12	14205.4	14205.4	0.10%	1.77	0.05	1.82	0.67	18	3	2.49	NCLSHT
NBA0412_4-6	6	4	12	12588.2	12588.2	0.13%	1.94	0.05	1.99	1.45	24	4	3.45	NCLSHT
NBA0512_4-6	6	4	12	15598.2	15598.2	0.04%	2.73	0.05	2.78	1.25	18	3	4.03	NCLSHT
NBA0612_4-6	6	4	12	12650.3	12650.3	0.21%	2.95	0.04	2.99	1.22	24	4	4.21	NCLSHT
NBA0712_4-6	6	4	12	14536.2	14536.2	0.02%	1.99	0.04	2.04	0.47	12	2	2.50	NCLSHT
NBA0812_4-6	6	4	12	12165.7	12165.7	0.00%	1.74	0.08	1.81	0.94	18	3	2.75	NCLSHT
NBA0912_4-6	6	4	12	14700.4	14700.4	0.00%	2.61	0.03	2.65	1.04	36	6	3.68	NCLSHT
NBA0018_4-6	6	4	18	18430.2	18430.2	0.00%	2.45	0.09	2.54	1.56	24	3	4.10	NCLSHT
NBA0118_4-6	6	4	18	21332.9	21332.9	0.05%	7.12	0.06	7.18	2.91	24	3	10.10	NCLSHT
NBA0218_4-6	6	4	18	21178.7	21178.7	0.04%	5.49	0.06	5.56	2.00	24	3	7.56	NCLSHT
NBA0318_4-6	6	4	18	21681.1	21681.1	0.03%	5.06	0.09	5.15	2.51	32	4	7.66	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%	3.71	0.06	3.77	1.29	16	2	5.06	NCLSHT
NBA0518_4-6	6	4	18	23051.6	23051.6	0.15%	5.94	0.08	6.02	4.80	32	4	10.82	NCLSHT
NBA0618_4-6	6	4	18	19494.7	19494.7	0.09%	7.00	0.09	7.09	3.93	24	3	11.02	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%	4.13	0.06	4.19	1.78	24	3	5.97	NCLSHT
NBA0818_4-6	6	4	18	18069.1	18069.1	0.02%	4.06	0.06	4.12	2.88	24	3	7.01	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%	6.23	0.08	6.31	1.59	24	3	7.90	NCLSHT
NBA006_4-12	12	4	6	13165.9	13165.9	0.09%	0.78	0.05	0.82	1.22	20	4	2.05	NCLSHT
NBA016_4-12	12	4	6	15317.7	15317.7	0.05%	1.06	0.03	1.09	1.71	20	4	2.81	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%	0.60	0.02	0.62	0.32	10	2	0.95	NCLSHT
NBA036_4-12	12	4	6	12255.8	12255.8	0.31%	0.80	0.05	0.85	0.64	15	3	1.48	NCLSHT
NBA046_4-12	12	4	6	14321.8	14321.8	0.31%	0.46	0.03	0.49	0.61	15	3	1.11	NCLSHT
NBA056_4-12	12	4	6	14092.9	14092.9	0.00%	0.66	0.04	0.70	0.59	10	2	1.29	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%	0.57	0.02	0.60	0.34	20	4	0.93	NCLSHT
NBA076_4-12	12	4	6	12417.0	12417.0	0.06%	0.58	0.03	0.61	0.42	10	2	1.03	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%	0.62	0.03	0.65	0.60	15	3	1.25	NCLSHT
NBA096_4-12	12	4	6	13215.7	13215.7	0.26%	0.72	0.03	0.75	1.15	15	3	1.90	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%	2.79	0.06	2.84	2.46	30	5	5.31	NCLSHT
NBA0112_4-12	12	4	12	28361.4	28361.4	0.01%	4.79	0.06	4.85	3.82	18	3	8.67	NCLSHT
NBA0212_4-12	12	4	12	26413.1	26413.1	0.07%	2.07	0.06	2.13	1.68	24	4	3.81	NCLSHT
NBA0312_4-12	12	4	12	25282.8	25282.8	0.03%	1.52	0.09	1.61	1.20	18	3	2.82	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%	1.92	0.05	1.97	1.29	18	3	3.26	NCLSHT
NBA0512_4-12	12	4	12	27767.9	27767.9	0.01%	1.90	0.06	1.96	1.14	18	3	3.10	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%	1.08	0.05	1.13	0.88	24	4	2.02	NCLSHT
NBA0712_4-12	12	4	12	26172.4	26172.4	0.07%	1.99	0.08	2.07	2.37	24	4	4.44	NCLSHT
NBA0812_4-12	12	4	12	27994.2	27994.2	0.00%	2.50	0.05	2.55	0.84	12	2	3.39	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%	3.22	0.09	3.31	3.45	18	3	6.75	NCLSHT
NBA0018_4-12	12	4	18	38035.7	38035.7	0.02%	6.75	0.29	7.04	5.58	24	3	12.63	NCLSHT
NBA0118_4-12	12	4	18	41645.7	41645.7	0.20%	14.17	0.16	14.33	10.72	16	2	25.05	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%	4.83	0.08	4.91	3.48	24	3	8.39	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%	5.63	0.10	5.73	5.55	32	4	11.28	NCLSHT
NBA0418_4-12	12	4	18	40569.9	40569.9	0.00%	3.95	0.14	4.09	9.54	24	3	13.64	NCLSHT
NBA0518_4-12	12	4	18	41016.9	41016.9	0.04%	5.27	0.13	5.40	5.39	24	3	10.80	NCLSHT
NBA0618_4-12	12	4	18	37066.0	37066.0	0.00%	3.82	0.07	3.89	3.73	40	5	7.62	NCLSHT
NBA0718_4-12	12	4	18	41034.4	41034.4	0.00%	9.76	0.09	9.85	5.59	24	3	15.44	NCLSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%	3.58	0.11	3.69	2.76	24	3	6.45	NCLSHT
NBA0918_4-12	12	4	18	41443.2	41443.2	0.18%	8.32	0.10	8.42	11.29	24	3	19.71	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%	1.28	0.05	1.33	0.74	10	2	2.07	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%	1.31	0.05	1.36	0.94	10	2	2.30	NCLSHT
NBA026_4-25	25	4	6	27548.3	27548.3	0.00%	0.95	0.03	0.99	0.72	15	3	1.71	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%	1.60	0.04	1.64	1.87	20	4	3.51	NCLSHT
NBA046_4-25	25	4	6	26618.5	26618.5	0.01%	0.84	0.04	0.88	0.67	15	3	1.55	NCLSHT
NBA056_4-25	25	4	6	30139.4	30139.4	0.10%	1.07	0.04	1.11	0.90	10	2	2.02	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%	0.83	0.04	0.87	0.28	10	2	1.15	NCLSHT
NBA076_4-25	25	4	6	26942.8	26942.8	0.02%	1.25	0.04	1.30	2.42	20	4	3.72	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%	1.03	0.03	1.07	0.70	15	3	1.76	NCLSHT
NBA096_4-25	25	4	6	27876.1	27876.1	0.10%	1.54	0.04	1.58	1.96	20	4	3.54	NCLSHT
NBA0012_4-25	25	4	12	53584.8	53584.8	0.02%	3.98	0.08	4.06	4.01	18	3	8.07	NCLSHT
NBA0112_4-25	25	4	12	56262.4	56262.4	0.01%	3.15	0.11	3.26	2.54	18	3	5.80	NCLSHT
NBA0212_4-25	25	4	12	53157.9	53157.9	0.00%	2.55	0.16	2.72	3.65	24	4	6.38	NCLSHT
NBA0312_4-25	25	4	12	53949.1	53949.1	0.02%	3.58	0.12	3.70	4.04	24	4	7.74	NCLSHT
NBA0412_4-25	25	4	12	54866.3	54866.3	0.00%	1.95	0.12	2.08	1.77	12	2	3.85	NCLSHT
NBA0512_4-25	25	4	12	57083.0	57083.0	0.10%	2.29	0.16	2.45	3.13	24	4	5.58	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%	2.01	0.06	2.07	1.19	18	3	3.27	NCLSHT
NBA0712_4-25	25	4	12	55378.4	55378.4	0.00%	4.55	0.09	4.64	3.36	18	3	8.01	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%	2.66	0.06	2.73	1.88	18	3	4.62	NCLSHT
NBA0912_4-25	25	4	12	54767.7	54767.7	0.05%	3.84	0.09	3.94	3.57	24	4	7.51	NCLSHT
NBA0018_4-25	25	4	18	77879.2	77879.2	0.03%	8.05	0.21	8.26	15.56	24	3	23.82	NCLSHT
NBA0118_4-25	25	4	18	83801.3	83801.3	0.00%	5.69	0.11	5.80	6.59	32	4	12.39	NCLSHT
NBA0218_4-25	25	4	18	80794.1	80794.1	0.02%	5.68	0.31	6.00	12.08	32	4	18.08	NCLSHT
NBA0318_4-25	25	4	18	80251.8	80251.8	0.01%	6.19	0.13	6.32	5.43	24	3	11.75	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%	2.95	0.12	3.07	2.83	24	3	5.91	NCLSHT
NBA0518_4-25	25	4	18	84249.7	84249.7	0.01%	6.26	0.17	6.43	7.91	32	4	14.35	NCLSHT
NBA0618_4-25	25	4	18	77312.2	77312.2	0.01%	3.75	0.11	3.87	3.01	24	3	6.88	NCLSHT
NBA0718_4-25	25	4	18	82408.7	82408.7	0.05%	9.49	0.13	9.62	15.15	32	4	24.77	NCLSHT
NBA0818_4-25	25	4	18	78387.4	78387.4	0.01%	6.89	0.11	7.00	4.60	24	3	11.60	NCLSHT
NBA0918_4-25	25	4	18	82214.1	82214.1	0.02%	8.10	0.12	8.23	7.53	16	2	15.76	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%	1.60	0.05	1.65	1.00	15	3	2.66	NCLSHT
NBA016_4-50	50	4	6	55362.7	55362.7	0.02%	1.87	0.08	1.95	1.05	15	3	3.01	NCLSHT
NBA026_4-50	50	4	6	55982.7	55982.7	0.00%	1.51	0.05	1.56	1.34	20	4	2.91	NCLSHT
NBA036_4-50	50	4	6	55109.6	55109.6	0.04%	2.35	0.12	2.48	2.22	15	3	4.70	NCLSHT
NBA046_4-50	50	4	6	56694.8	56694.8	0.05%	2.26	0.12	2.38	7.62	20	4	10.00	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%	0.93	0.12	1.05	1.16	20	4	2.21	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%	1.43	0.06	1.49	0.92	15	3	2.41	NCLSHT
NBA076_4-50	50	4	6	51567.7	51567.7	0.00%	1.55	0.09	1.65	1.64	20	4	3.29	NCLSHT
NBA086_4-50	50	4	6	52836.7	52836.7	0.01%	1.32	0.08	1.41	1.28	10	2	2.68	NCLSHT
NBA096_4-50	50	4	6	60110.3	60110.3	0.02%	1.53	0.06	1.61	1.42	20	4	3.03	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%	4.75	0.17	4.93	10.43	18	3	15.37	NCLSHT
NBA0112_4-50	50	4	12	108410.9	108410.9	0.00%	3.70	0.10	3.81	4.12	24	4	7.94	NCLSHT
NBA0212_4-50	50	4	12	107885.6	107885.6	0.01%	4.49	0.10	4.60	3.78	18	3	8.38	NCLSHT
NBA0312_4-50	50	4	12	110024.4	110024.4	0.04%	5.71	0.17	5.88	7.87	24	4	13.75	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%	4.21	0.13	4.34	8.81	24	4	13.16	NCLSHT
NBA0512_4-50	50	4	12	111973.8	111973.8	0.00%	3.79	0.10	3.89	2.75	18	3	6.65	NCLSHT
NBA0612_4-50	50	4	12	103976.3	103976.3	0.01%	2.11	0.10	2.22	2.83	24	4	5.05	NCLSHT
NBA0712_4-50	50	4	12	106406.4	106406.4	0.00%	5.93	0.12	6.05	9.63	24	4	15.69	NCLSHT
NBA0812_4-50	50	4	12	106462.3	106462.3	0.00%	2.67	0.10	2.77	1.46	12	2	4.24	NCLSHT
NBA0912_4-50	50	4	12	114312.7	114312.7	0.01%	4.05	0.14	4.20	4.54	24	4	8.75	NCLSHT
NBA0018_4-50	50	4	18	159939.9	159939.9	0.00%	8.30	0.18	8.48	9.09	32	4	17.58	NCLSHT
NBA0118_4-50	50	4	18	161695.5	161695.5	0.00%	7.33	0.27	7.61	8.04	16	2	15.66	NCLSHT
NBA0218_4-50	50	4	18	162674.6	162674.6	0.01%	8.88	0.29	9.18	22.57	24	3	31.75	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%	13.18	0.20	13.38	9.89	16	2	23.28	NCLSHT
NBA0418_4-50	50	4	18	166161.4	166161.4	0.02%	10.61	0.18	10.80	13.22	24	3	24.02	NCLSHT
NBA0518_4-50	50	4	18	167983.5	167983.5	0.00%	6.31	0.25	6.56	7.70	24	3	14.26	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%	5.90	0.19	6.10	6.29	24	3	12.39	NCLSHT
NBA0718_4-50	50	4	18	161439.4	161439.4	0.04%	17.36	0.23	17.59	42.91	32	4	60.51	NCLSHT
NBA0818_4-50	50	4	18	157274.5	157274.5	0.00%	4.72	0.20	4.93	7.16	32	4	12.09	NCLSHT
NBA0918_4-50	50	4	18	168438.9	168438.9	0.00%	6.25	0.24	6.50	9.71	24	3	16.22	NCLSHT
NBA006_6-6	6	6	6	5607.2	5607.2	0.00%	0.47	0.05	0.52	0.22	15	3	0.74	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%	1.08	0.06	1.14	0.65	15	3	1.79	NCLSHT
NBA026_6-6	6	6	6	6971.5	6971.5	0.46%	0.70	0.04	0.75	0.32	15	3	1.07	NCLSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA036_6-6	6	6	6	7315.9	7315.9	0.00%	0.70	0.03	0.73	0.37	15	3	1.10	NCLSHT
NBA046_6-6	6	6	6	8017.1	8017.1	0.00%	1.49	0.05	1.54	0.68	15	3	2.22	NCLSHT
NBA056_6-6	6	6	6	7927.1	7927.1	0.20%	1.16	0.07	1.23	0.79	15	3	2.02	NCLSHT
NBA066_6-6	6	6	6	6664.3	6664.3	0.06%	0.47	0.03	0.50	0.26	10	2	0.77	NCLSHT
NBA076_6-6	6	6	6	7695.6	7695.6	0.00%	1.19	0.04	1.23	0.50	15	3	1.73	NCLSHT
NBA086_6-6	6	6	6	6624.8	6624.8	0.00%	0.86	0.03	0.89	0.50	15	3	1.39	NCLSHT
NBA096_6-6	6	6	6	7393.0	7393.0	0.03%	1.08	0.06	1.15	0.44	15	3	1.59	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%	1.67	0.05	1.72	0.42	18	3	2.14	NCLSHT
NBA0112_6-6	6	6	12	14045.8	14045.8	0.01%	4.00	0.23	4.23	3.87	24	4	8.10	NCLSHT
NBA0212_6-6	6	6	12	14145.3	14145.3	0.03%	5.16	0.10	5.26	1.12	18	3	6.39	NCLSHT
NBA0312_6-6	6	6	12	14710.7	14710.7	0.05%	3.68	0.08	3.76	1.26	18	3	5.02	NCLSHT
NBA0412_6-6	6	6	12	14751.7	14751.7	0.01%	4.82	0.23	5.05	2.20	24	4	7.26	NCLSHT
NBA0512_6-6	6	6	12	14523.1	14523.1	0.05%	2.26	0.11	2.37	1.53	24	4	3.90	NCLSHT
NBA0612_6-6	6	6	12	12571.7	12571.7	0.03%	3.62	0.06	3.69	1.72	24	4	5.41	NCLSHT
NBA0712_6-6	6	6	12	15125.3	15125.3	0.10%	4.18	0.11	4.29	1.29	24	4	5.58	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%	6.05	0.12	6.17	0.90	18	3	7.07	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%	4.34	0.10	4.44	1.45	24	4	5.89	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%	4.66	0.09	4.76	0.93	24	3	5.68	NCLSHT
NBA0118_6-6	6	6	18	21538.0	21538.0	0.05%	13.37	0.15	13.52	4.06	24	3	17.58	NCLSHT
NBA0218_6-6	6	6	18	19872.5	19872.5	0.01%	10.13	0.14	10.27	3.39	32	4	13.66	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%	9.87	0.10	9.98	3.30	32	4	13.28	NCLSHT
NBA0418_6-6	6	6	18	21955.9	21955.9	0.01%	11.91	0.18	12.09	3.64	32	4	15.73	NCLSHT
NBA0518_6-6	6	6	18	22134.6	22134.6	0.02%	8.28	0.17	8.46	5.88	32	4	14.35	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%	8.98	0.09	9.08	2.82	24	3	11.90	NCLSHT
NBA0718_6-6	6	6	18	21771.7	21771.7	0.05%	11.07	0.17	11.24	2.19	24	3	13.44	NCLSHT
NBA0818_6-6	6	6	18	19912.5	19912.5	0.02%	16.51	0.16	16.67	3.81	32	4	20.48	NCLSHT
NBA0918_6-6	6	6	18	21307.9	21307.9	0.06%	12.26	0.14	12.41	6.78	40	5	19.19	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%	1.01	0.04	1.05	0.99	15	3	2.04	NCLSHT
NBA016_6-12	12	6	6	13041.8	13041.8	0.06%	1.01	0.05	1.06	1.46	20	4	2.53	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%	0.79	0.06	0.85	0.50	20	4	1.36	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%	0.77	0.03	0.81	0.40	15	3	1.21	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%	0.83	0.05	0.88	0.51	15	3	1.40	NCLSHT
NBA056_6-12	12	6	6	12333.4	12333.4	0.00%	0.65	0.03	0.68	0.39	10	2	1.07	NCLSHT
NBA066_6-12	12	6	6	11650.8	11650.8	0.08%	1.33	0.04	1.38	1.06	15	3	2.44	NCLSHT
NBA076_6-12	12	6	6	13479.1	13479.1	0.00%	1.45	0.06	1.51	1.72	15	3	3.23	NCLSHT
NBA086_6-12	12	6	6	13401.0	13401.0	0.20%	1.41	0.04	1.45	1.48	15	3	2.93	NCLSHT
NBA096_6-12	12	6	6	14330.9	14330.9	0.21%	1.19	0.05	1.25	1.50	20	4	2.76	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%	2.95	0.06	3.02	1.45	18	3	4.47	NCLSHT
NBA0112_6-12	12	6	12	25525.2	25525.2	0.01%	4.47	0.06	4.53	2.20	18	3	6.73	NCLSHT
NBA0212_6-12	12	6	12	24025.6	24025.6	0.00%	3.29	0.09	3.38	1.76	18	3	5.15	NCLSHT
NBA0312_6-12	12	6	12	26446.1	26446.1	0.00%	2.41	0.10	2.51	2.04	24	4	4.56	NCLSHT
NBA0412_6-12	12	6	12	24984.1	24984.1	0.00%	1.56	0.06	1.62	1.09	18	3	2.71	NCLSHT
NBA0512_6-12	12	6	12	26199.0	26199.0	0.04%	3.42	0.07	3.50	1.75	24	4	5.25	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%	4.56	0.07	4.64	4.26	30	5	8.90	NCLSHT
NBA0712_6-12	12	6	12	27891.4	27891.4	0.06%	4.73	0.08	4.82	10.05	24	4	14.87	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%	7.02	0.10	7.13	4.68	24	4	11.80	NCLSHT
NBA0912_6-12	12	6	12	27276.2	27276.2	0.00%	5.63	0.10	5.74	10.89	24	4	16.63	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%	7.72	0.12	7.84	3.08	24	3	10.92	NCLSHT
NBA0118_6-12	12	6	18	40976.3	40976.3	0.01%	10.12	0.19	10.31	7.60	32	4	17.91	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%	6.83	0.12	6.96	4.19	24	3	11.16	NCLSHT
NBA0318_6-12	12	6	18	38324.3	38324.3	0.03%	5.83	0.13	5.96	4.84	32	4	10.80	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%	4.85	0.10	4.95	4.17	24	3	9.12	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%	6.39	0.15	6.54	5.49	32	4	12.04	NCLSHT
NBA0618_6-12	12	6	18	37147.6	37147.6	0.02%	11.36	0.11	11.47	10.78	32	4	22.25	NCLSHT
NBA0718_6-12	12	6	18	41299.5	41299.5	0.06%	13.53	0.16	13.69	15.66	32	4	29.35	NCLSHT
NBA0818_6-12	12	6	18	39070.7	39070.7	0.15%	13.92	0.14	14.07	37.46	32	4	51.53	NCLSHT
NBA0918_6-12	12	6	18	41037.3	41037.3	0.02%	8.79	0.14	8.93	7.05	24	3	15.99	NCLSHT
NBA006_6-25	25	6	6	25556.3	25556.3	0.00%	2.15	0.07	2.23	3.58	15	3	5.81	NCLSHT
NBA016_6-25	25	6	6	25302.8	25302.8	0.01%	1.62	0.09	1.71	1.56	15	3	3.27	NCLSHT
NBA026_6-25	25	6	6	26751.4	26751.4	0.13%	1.18	0.07	1.25	1.58	20	4	2.84	NCLSHT
NBA036_6-25	25	6	6	26597.5	26597.5	0.12%	2.18	0.10	2.28	4.63	15	3	6.91	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%	2.46	0.15	2.61	5.62	15	3	8.23	NCLSHT
NBA056_6-25	25	6	6	26227.3	26227.3	0.02%	1.93	0.09	2.03	2.29	15	3	4.31	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%	1.03	0.08	1.11	0.94	15	3	2.05	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%	1.92	0.07	1.99	1.37	15	3	3.36	NCLSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA086_6-25	25	6	6	26561.9	26561.9	0.00%	1.46	0.05	1.51	1.29	15	3	2.80	NCLSHT
NBA096_6-25	25	6	6	26263.0	26263.0	0.02%	1.85	0.05	1.90	1.77	20	4	3.67	NCLSHT
NBA0012_6-25	25	6	12	52258.4	52258.4	0.03%	5.18	0.14	5.33	10.88	30	5	16.20	NCLSHT
NBA0112_6-25	25	6	12	52474.2	52474.2	0.01%	7.41	0.12	7.54	31.13	30	5	38.67	NCLSHT
NBA0212_6-25	25	6	12	53899.3	53899.3	0.04%	5.74	0.15	5.89	4.98	18	3	10.87	NCLSHT
NBA0312_6-25	25	6	12	52203.1	52203.1	0.06%	7.62	0.17	7.79	12.02	30	5	19.81	NCLSHT
NBA0412_6-25	25	6	12	55790.4	55790.4	0.13%	8.12	0.15	8.27	23.45	24	4	31.73	NCLSHT
NBA0512_6-25	25	6	12	51641.5	51641.5	0.00%	6.90	0.17	7.08	12.05	24	4	19.13	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%	2.99	0.10	3.09	2.20	24	4	5.30	NCLSHT
NBA0712_6-25	25	6	12	52543.7	52543.7	0.04%	7.28	0.12	7.42	6.05	24	4	13.47	NCLSHT
NBA0812_6-25	25	6	12	51079.7	51079.7	0.01%	4.66	0.18	4.84	4.21	18	3	9.05	NCLSHT
NBA0912_6-25	25	6	12	53471.9	53471.9	0.02%	4.35	0.13	4.49	5.76	18	3	10.25	NCLSHT
NBA0018_6-25	25	6	18	76069.0	76069.0	0.03%	12.44	0.34	12.79	38.92	24	3	51.72	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%	13.62	0.29	13.91	20.12	32	4	34.03	NCLSHT
NBA0218_6-25	25	6	18	81503.5	81503.5	0.02%	15.82	0.22	16.04	10.97	16	2	27.01	NCLSHT
NBA0318_6-25	25	6	18	79345.7	79345.7	0.05%	19.66	0.27	19.94	35.72	24	3	55.66	NCLSHT
NBA0418_6-25	25	6	18	84589.8	84589.8	0.08%	16.29	0.24	16.54	56.31	16	2	72.86	NCLSHT
NBA0518_6-25	25	6	18	80778.7	80778.7	0.00%	13.33	0.30	13.64	13.84	24	3	27.49	NCLSHT
NBA0618_6-25	25	6	18	76162.0	76162.0	0.00%	5.14	0.23	5.37	8.62	40	5	14.00	NCLSHT
NBA0718_6-25	25	6	18	77485.3	77485.3	0.00%	10.47	0.22	10.71	11.55	16	2	22.26	NCLSHT
NBA0818_6-25	25	6	18	74953.6	74953.6	0.02%	9.72	0.21	9.93	19.31	24	3	29.24	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%	8.68	0.21	8.90	11.87	24	3	20.78	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%	2.14	0.13	2.27	1.58	15	3	3.85	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%	2.55	0.30	2.85	3.93	20	4	6.79	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%	2.50	0.09	2.59	4.40	25	5	6.99	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%	1.82	0.08	1.90	1.33	15	3	3.23	NCLSHT
NBA046_6-50	50	6	6	53895.5	53895.5	0.03%	3.39	0.16	3.55	5.85	20	4	9.40	NCLSHT
NBA056_6-50	50	6	6	52670.6	52670.6	0.03%	2.75	0.11	2.86	5.15	15	3	8.01	NCLSHT
NBA066_6-50	50	6	6	51786.4	51786.4	0.00%	2.95	0.10	3.06	9.02	15	3	12.08	NCLSHT
NBA076_6-50	50	6	6	53972.6	53972.6	0.05%	2.48	0.14	2.62	3.45	15	3	6.07	NCLSHT
NBA086_6-50	50	6	6	50766.1	50766.1	0.00%	1.89	0.10	1.99	1.42	15	3	3.41	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%	1.93	0.08	2.02	1.58	15	3	3.59	NCLSHT
NBA0012_6-50	50	6	12	102385.2	102385.2	0.00%	5.03	0.16	5.20	5.58	18	3	10.79	NCLSHT
NBA0112_6-50	50	6	12	101406.4	101406.4	0.00%	7.10	0.18	7.29	7.64	18	3	14.94	NCLSHT
NBA0212_6-50	50	6	12	104860.5	104860.5	0.00%	7.00	0.24	7.24	15.63	24	4	22.87	NCLSHT
NBA0312_6-50	50	6	12	102403.4	102403.4	0.02%	7.59	0.21	7.80	10.99	30	5	18.79	NCLSHT
NBA0412_6-50	50	6	12	109574.0	109574.0	0.01%	7.34	0.33	7.68	11.06	12	2	18.74	NCLSHT
NBA0512_6-50	50	6	12	105154.3	105154.3	0.01%	7.38	0.33	7.71	23.67	18	3	31.38	NCLSHT
NBA0612_6-50	50	6	12	101778.4	101778.4	0.02%	9.42	0.29	9.72	16.35	24	4	26.07	NCLSHT
NBA0712_6-50	50	6	12	107445.8	107445.8	0.01%	5.48	0.16	5.65	4.05	12	2	9.71	NCLSHT
NBA0812_6-50	50	6	12	99745.0	99745.0	0.00%	6.88	0.25	7.14	4.81	18	3	11.95	NCLSHT
NBA0912_6-50	50	6	12	102197.3	102197.3	0.00%	8.33	0.35	8.69	11.10	24	4	19.79	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%	13.37	0.29	13.67	21.58	32	4	35.25	NCLSHT
NBA0118_6-50	50	6	18	150738.5	150738.5	0.00%	17.05	0.42	17.48	37.22	24	3	54.71	NCLSHT
NBA0218_6-50	50	6	18	154213.6	154213.6	0.01%	22.06	0.31	22.38	58.89	40	5	81.28	NCLSHT
NBA0318_6-50	50	6	18	154029.0	154029.0	0.00%	14.79	0.40	15.19	19.11	24	3	34.31	NCLSHT
NBA0418_6-50	50	6	18	164546.6	164546.6	0.00%	14.71	0.41	15.12	31.51	24	3	46.63	NCLSHT
NBA0518_6-50	50	6	18	155183.4	155183.4	0.03%	13.40	0.55	13.96	69.18	32	4	83.15	NCLSHT
NBA0618_6-50	50	6	18	153877.6	153877.6	0.04%	15.97	0.54	16.52	52.08	32	4	68.61	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%	13.30	0.32	13.62	21.39	16	2	35.02	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%	9.09	0.51	9.61	33.98	32	4	43.59	NCLSHT
NBA0918_6-50	50	6	18	154010.5	154010.5	0.00%	10.76	0.27	11.05	28.36	40	5	39.41	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%	0.32	0.02	0.33	0.40	20	4	0.73	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%	0.20	0.01	0.21	0.06	10	2	0.27	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%	0.26	0.02	0.28	0.17	15	3	0.45	NCLSLT
NBB036_2-6	6	2	6	7766.3	7766.3	0.67%	0.25	0.02	0.27	0.15	10	2	0.42	NCLSLT
NBB046_2-6	6	2	6	7798.0	7798.0	0.00%	0.30	0.02	0.32	0.20	10	2	0.52	NCLSLT
NBB056_2-6	6	2	6	9352.7	9352.7	0.00%	0.20	0.01	0.22	0.09	10	2	0.31	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%	0.23	0.02	0.25	0.18	15	3	0.42	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%	0.33	0.02	0.35	0.38	20	4	0.73	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%	0.26	0.02	0.28	0.19	15	3	0.47	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%	0.21	0.02	0.23	0.07	10	2	0.30	NCLSLT
NBB0012_2-6	6	2	12	15489.2	15489.2	0.00%	1.02	0.03	1.05	0.86	24	4	1.91	NCLSLT
NBB0112_2-6	6	2	12	13327.9	13327.9	0.04%	1.02	0.02	1.05	0.29	12	2	1.34	NCLSLT
NBB0212_2-6	6	2	12	14595.8	14595.8	0.05%	1.00	0.02	1.02	0.37	18	3	1.39	NCLSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0312_2-6	6	2	12	14768.4	14768.4	0.26%	1.11	0.03	1.14	0.75	24	4	1.89	NCLSLT
NBB0412_2-6	6	2	12	13659.2	13659.2	0.45%	1.57	0.03	1.60	1.09	18	3	2.69	NCLSLT
NBB0512_2-6	6	2	12	17339.3	17339.3	0.00%	0.58	0.04	0.63	0.58	24	4	1.21	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%	0.58	0.03	0.61	0.52	18	3	1.13	NCLSLT
NBB0712_2-6	6	2	12	16592.1	16592.1	0.00%	0.94	0.02	0.97	0.52	18	3	1.48	NCLSLT
NBB0812_2-6	6	2	12	14141.0	14141.0	0.01%	1.01	0.02	1.03	0.81	24	4	1.84	NCLSLT
NBB0912_2-6	6	2	12	16082.1	16082.1	0.04%	0.48	0.03	0.51	0.49	24	4	1.01	NCLSLT
NBB0018_2-6	6	2	18	21645.0	21645.0	0.02%	2.93	0.05	2.99	3.93	32	4	6.92	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%	1.42	0.05	1.47	0.54	16	2	2.01	NCLSLT
NBB0218_2-6	6	2	18	22355.1	22355.1	0.03%	2.58	0.04	2.62	1.23	24	3	3.86	NCLSLT
NBB0418_2-6	6	2	18	20068.1	20068.1	0.26%	3.60	0.03	3.64	2.04	24	3	5.68	NCLSLT
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%	1.48	0.04	1.52	0.54	16	2	2.06	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%	2.25	0.03	2.28	1.62	40	5	3.91	NCLSLT
NBB0718_2-6	6	2	18	24299.8	24299.8	0.00%	3.10	0.04	3.14	2.11	24	3	5.26	NCLSLT
NBB0818_2-6	6	2	18	20809.3	20809.3	0.00%	1.81	0.04	1.85	1.27	24	3	3.13	NCLSLT
NBB0918_2-6	6	2	18	22437.7	22437.7	0.01%	1.46	0.03	1.49	0.82	24	3	2.31	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%	0.26	0.02	0.28	0.10	10	2	0.38	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%	0.38	0.02	0.40	0.23	10	2	0.63	NCLSLT
NBB026_2-12	12	2	6	14054.9	14054.9	0.00%	0.48	0.02	0.50	0.42	15	3	0.93	NCLSLT
NBB036_2-12	12	2	6	16317.3	16317.3	0.00%	0.30	0.02	0.32	0.38	20	4	0.70	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%	0.43	0.02	0.45	0.28	15	3	0.73	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%	0.26	0.04	0.30	0.43	20	4	0.74	NCLSLT
NBB066_2-12	12	2	6	13748.0	13748.0	0.00%	0.32	0.02	0.34	0.23	15	3	0.57	NCLSLT
NBB076_2-12	12	2	6	15404.0	15404.0	0.05%	0.33	0.02	0.35	0.16	10	2	0.51	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%	0.35	0.01	0.36	0.11	10	2	0.47	NCLSLT
NBB096_2-12	12	2	6	15838.1	15838.1	0.00%	0.59	0.02	0.61	0.20	10	2	0.82	NCLSLT
NBB0012_2-12	12	2	12	26095.5	26095.5	0.03%	0.84	0.03	0.86	0.31	12	2	1.18	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%	1.00	0.03	1.03	0.32	12	2	1.35	NCLSLT
NBB0212_2-12	12	2	12	27060.2	27060.2	0.03%	1.56	0.05	1.61	1.73	24	4	3.34	NCLSLT
NBB0312_2-12	12	2	12	31694.7	31694.7	0.06%	1.14	0.04	1.18	0.73	18	3	1.91	NCLSLT
NBB0412_2-12	12	2	12	28227.9	28227.9	0.01%	1.07	0.03	1.10	1.60	30	5	2.69	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%	1.07	0.04	1.11	0.65	18	3	1.77	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%	0.85	0.03	0.88	0.34	12	2	1.22	NCLSLT
NBB0712_2-12	12	2	12	30244.4	30244.4	0.00%	1.18	0.04	1.23	0.88	24	4	2.11	NCLSLT
NBB0812_2-12	12	2	12	26667.8	26667.8	0.16%	1.53	0.04	1.57	1.04	18	3	2.61	NCLSLT
NBB0912_2-12	12	2	12	30952.0	30952.0	0.17%	1.94	0.05	1.99	4.00	30	5	5.99	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%	1.72	0.04	1.76	1.29	24	3	3.05	NCLSLT
NBB0118_2-12	12	2	18	40340.6	40340.6	0.00%	2.39	0.05	2.44	2.36	24	3	4.80	NCLSLT
NBB0218_2-12	12	2	18	41462.5	41462.5	0.09%	5.21	0.04	5.25	5.46	24	3	10.72	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%	3.01	0.04	3.05	2.56	24	3	5.62	NCLSLT
NBB0418_2-12	12	2	18	44155.1	44155.1	0.11%	2.46	0.08	2.54	3.43	24	3	5.97	NCLSLT
NBB0518_2-12	12	2	18	47247.8	47247.8	0.02%	2.36	0.05	2.41	1.32	16	2	3.74	NCLSLT
NBB0618_2-12	12	2	18	40551.4	40551.4	0.02%	2.68	0.09	2.77	2.50	32	4	5.28	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%	2.22	0.06	2.28	1.45	24	3	3.73	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%	4.30	0.10	4.40	4.27	32	4	8.67	NCLSLT
NBB0918_2-12	12	2	18	47159.5	47159.5	0.22%	4.30	0.04	4.34	11.36	32	4	15.71	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%	0.54	0.02	0.57	0.30	10	2	0.87	NCLSLT
NBB016_2-25	25	2	6	29856.1	29856.1	0.05%	0.75	0.03	0.78	0.44	10	2	1.22	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%	0.82	0.02	0.84	0.58	15	3	1.42	NCLSLT
NBB036_2-25	25	2	6	30138.6	30138.6	0.05%	0.74	0.03	0.77	0.71	15	3	1.47	NCLSLT
NBB046_2-25	25	2	6	31330.3	31330.3	0.04%	0.77	0.02	0.80	0.90	20	4	1.70	NCLSLT
NBB056_2-25	25	2	6	31386.1	31386.1	0.10%	0.98	0.03	1.01	0.58	10	2	1.59	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%	0.39	0.02	0.41	0.18	10	2	0.59	NCLSLT
NBB076_2-25	25	2	6	31235.8	31235.8	0.02%	0.82	0.02	0.84	0.42	15	3	1.25	NCLSLT
NBB086_2-25	25	2	6	31973.8	31973.8	0.03%	0.77	0.03	0.80	0.73	15	3	1.53	NCLSLT
NBB096_2-25	25	2	6	32981.5	32981.5	0.01%	0.72	0.03	0.75	0.56	15	3	1.31	NCLSLT
NBB0012_2-25	25	2	12	58130.1	58130.1	0.01%	1.11	0.05	1.16	0.91	18	3	2.07	NCLSLT
NBB0112_2-25	25	2	12	60803.7	60803.7	0.00%	1.84	0.04	1.88	1.13	18	3	3.01	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%	3.04	0.03	3.07	1.21	18	3	4.28	NCLSLT
NBB0312_2-25	25	2	12	59106.8	59106.8	0.04%	2.23	0.04	2.28	1.56	12	2	3.84	NCLSLT
NBB0412_2-25	25	2	12	59548.3	59548.3	0.04%	2.13	0.08	2.20	3.12	30	5	5.32	NCLSLT
NBB0512_2-25	25	2	12	64768.9	64768.9	0.02%	2.64	0.04	2.68	1.28	12	2	3.96	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%	0.81	0.04	0.85	0.65	18	3	1.50	NCLSLT
NBB0712_2-25	25	2	12	62702.9	62702.9	0.03%	2.31	0.05	2.36	2.82	24	4	5.19	NCLSLT
NBB0812_2-25	25	2	12	62634.7	62634.7	0.04%	2.93	0.07	3.01	2.80	18	3	5.81	NCLSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0912_2-25	25	2	12	63811.5	63811.5	0.01%	1.79	0.05	1.85	1.23	18	3	3.08	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%	2.33	0.08	2.41	1.02	16	2	3.44	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%	3.28	0.12	3.40	2.16	24	3	5.56	NCLSLT
NBB0218_2-25	25	2	18	83123.5	83123.5	0.06%	5.23	0.08	5.32	6.06	24	3	11.38	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%	2.80	0.10	2.90	3.13	24	3	6.04	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.01%	6.56	0.09	6.64	5.86	24	3	12.52	NCLSLT
NBB0518_2-25	25	2	18	94859.6	94859.6	0.12%	7.08	0.20	7.28	32.10	40	5	39.38	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%	1.56	0.05	1.61	1.59	24	3	3.21	NCLSLT
NBB0718_2-25	25	2	18	92033.8	92033.8	0.02%	5.84	0.06	5.91	8.85	24	3	14.76	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.03%	5.55	0.13	5.68	9.51	32	4	15.20	NCLSLT
NBB0918_2-25	25	2	18	92932.0	92932.0	0.01%	4.25	0.10	4.35	3.64	24	3	8.00	NCLSLT
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%	1.01	0.03	1.04	0.50	15	3	1.54	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%	1.01	0.05	1.06	0.41	10	2	1.48	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%	1.11	0.05	1.16	0.77	15	3	1.94	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%	1.24	0.03	1.27	0.85	15	3	2.12	NCLSLT
NBB046_2-50	50	2	6	60649.4	60649.4	0.00%	1.49	0.04	1.53	1.09	10	2	2.63	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%	1.09	0.08	1.17	0.83	15	3	2.00	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%	0.99	0.06	1.05	0.72	15	3	1.77	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%	1.09	0.03	1.12	0.49	10	2	1.62	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%	1.45	0.04	1.49	1.26	15	3	2.76	NCLSLT
NBB096_2-50	50	2	6	60524.0	60524.0	0.00%	1.20	0.03	1.23	1.27	15	3	2.52	NCLSLT
NBB0012_2-50	50	2	12	117274.9	117274.9	0.00%	1.78	0.11	1.89	1.32	18	3	3.21	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%	2.15	0.12	2.27	1.49	18	3	3.76	NCLSLT
NBB0212_2-50	50	2	12	113908.7	113908.7	0.01%	3.70	0.08	3.79	2.87	18	3	6.66	NCLSLT
NBB0312_2-50	50	2	12	119840.4	119840.4	0.05%	3.16	0.11	3.27	1.88	12	2	5.15	NCLSLT
NBB0412_2-50	50	2	12	121917.2	121917.2	0.01%	4.69	0.10	4.79	3.85	18	3	8.64	NCLSLT
NBB0512_2-50	50	2	12	119160.2	119160.2	0.01%	2.53	0.06	2.59	1.49	12	2	4.08	NCLSLT
NBB0612_2-50	50	2	12	113560.6	113560.6	0.01%	2.20	0.06	2.26	1.48	18	3	3.74	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%	3.01	0.08	3.09	2.96	18	3	6.05	NCLSLT
NBB0812_2-50	50	2	12	115202.5	115202.5	0.00%	3.80	0.08	3.88	3.29	24	4	7.18	NCLSLT
NBB0912_2-50	50	2	12	122303.1	122303.1	0.01%	3.73	0.08	3.81	1.74	12	2	5.55	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%	2.80	0.09	2.89	2.86	24	3	5.75	NCLSLT
NBB0118_2-50	50	2	18	178704.0	178704.0	0.00%	3.75	0.17	3.93	2.46	16	2	6.39	NCLSLT
NBB0218_2-50	50	2	18	169536.3	169536.3	0.00%	5.41	0.32	5.73	9.61	24	3	15.34	NCLSLT
NBB0318_2-50	50	2	18	180938.8	180938.8	0.00%	4.81	0.13	4.94	4.19	24	3	9.14	NCLSLT
NBB0418_2-50	50	2	18	181485.3	181485.3	0.04%	10.16	0.10	10.26	28.63	24	3	38.89	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%	4.15	0.16	4.31	5.64	24	3	9.96	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%	5.13	0.12	5.25	4.36	24	3	9.61	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%	4.58	0.21	4.80	3.96	16	2	8.76	NCLSLT
NBB0818_2-50	50	2	18	173342.2	173342.2	0.01%	9.28	0.10	9.38	10.76	24	3	20.14	NCLSLT
NBB0918_2-50	50	2	18	182739.8	182739.8	0.00%	7.82	0.16	7.98	7.22	24	3	15.21	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%	0.37	0.03	0.40	0.33	15	3	0.73	NCLSLT
NBB016_4-6	6	4	6	7288.0	7288.0	0.51%	0.66	0.04	0.70	0.68	15	3	1.39	NCLSLT
NBB026_4-6	6	4	6	7329.5	7329.5	0.00%	0.52	0.04	0.55	0.41	15	3	0.96	NCLSLT
NBB036_4-6	6	4	6	6706.5	6706.5	0.00%	0.61	0.03	0.64	0.22	10	2	0.86	NCLSLT
NBB046_4-6	6	4	6	5584.9	5584.9	0.29%	0.42	0.03	0.45	0.28	20	4	0.73	NCLSLT
NBB056_4-6	6	4	6	7899.0	7899.0	0.00%	0.81	0.25	1.07	1.55	20	4	2.62	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%	0.67	0.03	0.70	0.38	15	3	1.08	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%	0.43	0.02	0.46	0.21	15	3	0.67	NCLSLT
NBB086_4-6	6	4	6	5873.3	5873.3	0.17%	0.68	0.03	0.70	0.35	15	3	1.05	NCLSLT
NBB096_4-6	6	4	6	8542.2	8542.2	0.25%	0.59	0.03	0.62	0.37	15	3	0.98	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%	1.71	0.06	1.78	0.77	24	4	2.55	NCLSLT
NBB0112_4-6	6	4	12	15267.6	15267.6	0.26%	2.87	0.06	2.93	1.91	18	3	4.84	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%	2.95	0.05	3.01	1.30	24	4	4.31	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%	2.35	0.05	2.40	0.83	24	4	3.23	NCLSLT
NBB0412_4-6	6	4	12	12883.9	12883.9	0.00%	2.43	0.08	2.51	4.13	30	5	6.65	NCLSLT
NBB0512_4-6	6	4	12	15807.8	15807.8	0.00%	2.81	0.07	2.88	4.00	24	4	6.88	NCLSLT
NBB0612_4-6	6	4	12	12801.2	12801.2	0.21%	2.75	0.04	2.79	0.54	18	3	3.33	NCLSLT
NBB0712_4-6	6	4	12	14721.9	14721.9	0.06%	2.22	0.04	2.25	0.80	18	3	3.05	NCLSLT
NBB0812_4-6	6	4	12	12363.6	12363.6	0.00%	2.79	0.06	2.85	1.32	24	4	4.18	NCLSLT
NBB0912_4-6	6	4	12	14884.8	14884.8	0.33%	3.12	0.03	3.15	0.83	18	3	3.99	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%	4.40	0.08	4.49	2.56	24	3	7.06	NCLSLT
NBB0118_4-6	6	4	18	21729.5	21729.5	0.06%	9.82	0.08	9.90	5.48	32	4	15.38	NCLSLT
NBB0218_4-6	6	4	18	21440.4	21440.4	0.02%	6.34	0.08	6.43	1.95	16	2	8.38	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%	5.12	0.08	5.20	3.04	32	4	8.24	NCLSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0418_4-6	6	4	18	19984.7	19984.7	0.07%	5.33	0.06	5.39	3.48	24	3	8.88	NCLSLT
NBB0518_4-6	6	4	18	23489.6	23489.6	0.03%	7.84	0.11	7.96	6.90	16	2	14.85	NCLSLT
NBB0618_4-6	6	4	18	19868.3	19868.3	0.00%	9.71	0.06	9.77	2.92	24	3	12.69	NCLSLT
NBB0718_4-6	6	4	18	22421.3	22421.3	0.02%	5.58	0.08	5.66	2.57	32	4	8.23	NCLSLT
NBB0818_4-6	6	4	18	18198.4	18198.4	0.06%	5.98	0.08	6.06	1.45	16	2	7.52	NCLSLT
NBB0918_4-6	6	4	18	22141.8	22141.8	0.00%	6.26	0.05	6.32	1.51	24	3	7.83	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%	0.90	0.04	0.95	0.97	15	3	1.92	NCLSLT
NBB016_4-12	12	4	6	15431.2	15431.2	0.03%	1.27	0.06	1.33	1.34	15	3	2.67	NCLSLT
NBB026_4-12	12	4	6	13171.4	13171.4	0.09%	0.60	0.02	0.62	0.54	15	3	1.17	NCLSLT
NBB036_4-12	12	4	6	12376.6	12376.6	0.14%	0.94	0.03	0.97	1.51	20	4	2.48	NCLSLT
NBB046_4-12	12	4	6	14366.3	14366.3	0.01%	0.73	0.02	0.76	1.03	20	4	1.79	NCLSLT
NBB056_4-12	12	4	6	14179.6	14179.6	0.08%	0.76	0.03	0.80	1.20	10	2	2.00	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%	0.71	0.03	0.75	0.21	10	2	0.96	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%	0.67	0.03	0.70	0.65	15	3	1.36	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%	0.87	0.03	0.91	0.52	15	3	1.43	NCLSLT
NBB096_4-12	12	4	6	13317.5	13317.5	0.27%	1.02	0.04	1.06	1.80	20	4	2.86	NCLSLT
NBB0012_4-12	12	4	12	24819.5	24819.5	0.04%	3.05	0.07	3.13	4.42	24	4	7.55	NCLSLT
NBB0112_4-12	12	4	12	28650.9	28650.9	0.20%	6.29	0.08	6.37	4.21	18	3	10.59	NCLSLT
NBB0212_4-12	12	4	12	26556.2	26556.2	0.08%	3.94	0.05	4.00	2.20	18	3	6.20	NCLSLT
NBB0312_4-12	12	4	12	25492.6	25492.6	0.03%	2.99	0.07	3.06	1.80	18	3	4.86	NCLSLT
NBB0412_4-12	12	4	12	27366.3	27366.3	0.02%	3.05	0.08	3.13	2.01	18	3	5.14	NCLSLT
NBB0512_4-12	12	4	12	28003.2	28003.2	0.17%	2.44	0.07	2.52	6.40	30	5	8.92	NCLSLT
NBB0612_4-12	12	4	12	24662.0	24662.0	0.18%	1.53	0.07	1.60	0.85	18	3	2.45	NCLSLT
NBB0712_4-12	12	4	12	26382.4	26382.4	0.10%	2.96	0.08	3.05	3.74	24	4	6.79	NCLSLT
NBB0812_4-12	12	4	12	28128.6	28128.6	0.00%	3.52	0.06	3.58	2.03	18	3	5.61	NCLSLT
NBB0912_4-12	12	4	12	28681.2	28681.2	0.26%	4.71	0.08	4.80	11.39	30	5	16.19	NCLSLT
NBB0018_4-12	12	4	18	38500.8	38500.8	0.22%	7.87	0.27	8.14	25.91	32	4	34.06	NCLSLT
NBB0118_4-12	12	4	18	42123.4	42123.4	0.33%	13.74	0.15	13.89	36.04	40	5	49.94	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%	7.66	0.08	7.74	7.30	32	4	15.04	NCLSLT
NBB0318_4-12	12	4	18	39769.2	39769.2	0.06%	9.22	0.12	9.35	7.28	24	3	16.63	NCLSLT
NBB0418_4-12	12	4	18	40754.9	40754.9	0.00%	5.64	0.11	5.75	10.24	40	5	15.99	NCLSLT
NBB0518_4-12	12	4	18	41198.3	41198.3	0.08%	7.18	0.16	7.34	13.85	24	3	21.19	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%	4.79	0.09	4.89	1.98	16	2	6.88	NCLSLT
NBB0718_4-12	12	4	18	41247.5	41247.5	0.07%	7.16	0.33	7.49	11.78	32	4	19.27	NCLSLT
NBB0818_4-12	12	4	18	42924.2	42924.2	0.06%	7.21	0.14	7.35	5.90	24	3	13.25	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	0.21%	9.77	0.11	9.88	29.69	24	3	39.57	NCLSLT
NBB006_4-25	25	4	6	25614.3	25614.3	0.04%	1.34	0.04	1.37	1.90	20	4	3.27	NCLSLT
NBB016_4-25	25	4	6	29493.8	29493.8	0.01%	1.46	0.06	1.52	1.18	15	3	2.70	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%	1.43	0.06	1.49	2.78	20	4	4.27	NCLSLT
NBB036_4-25	25	4	6	26073.0	26073.0	0.06%	1.46	0.09	1.56	3.15	25	5	4.71	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%	0.89	0.03	0.93	0.62	15	3	1.55	NCLSLT
NBB056_4-25	25	4	6	30215.4	30215.4	0.15%	1.43	0.05	1.49	2.05	20	4	3.53	NCLSLT
NBB066_4-25	25	4	6	25385.4	25385.4	0.00%	1.16	0.04	1.21	0.50	10	2	1.71	NCLSLT
NBB076_4-25	25	4	6	27107.5	27107.5	0.06%	1.79	0.05	1.84	2.96	15	3	4.80	NCLSLT
NBB086_4-25	25	4	6	26268.5	26268.5	0.00%	1.00	0.05	1.05	1.01	15	3	2.06	NCLSLT
NBB096_4-25	25	4	6	27968.7	27968.7	0.04%	1.94	0.03	1.97	2.72	25	5	4.69	NCLSLT
NBB0012_4-25	25	4	12	53753.3	53753.3	0.03%	6.77	0.16	6.92	12.23	12	2	19.16	NCLSLT
NBB0112_4-25	25	4	12	56371.9	56371.9	0.03%	4.27	0.10	4.37	5.24	18	3	9.62	NCLSLT
NBB0212_4-25	25	4	12	53344.2	53344.2	0.07%	4.56	0.27	4.84	17.47	18	3	22.31	NCLSLT
NBB0312_4-25	25	4	12	54153.0	54153.0	0.04%	5.40	0.21	5.61	6.49	18	3	12.10	NCLSLT
NBB0412_4-25	25	4	12	55007.0	55007.0	0.05%	3.19	0.10	3.30	5.98	24	4	9.28	NCLSLT
NBB0512_4-25	25	4	12	57170.4	57170.4	0.08%	3.90	0.08	3.98	4.17	24	4	8.16	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%	2.39	0.07	2.46	3.14	24	4	5.61	NCLSLT
NBB0712_4-25	25	4	12	55613.4	55613.4	0.06%	6.18	0.08	6.27	15.63	18	3	21.90	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%	4.43	0.08	4.52	3.75	18	3	8.27	NCLSLT
NBB0912_4-25	25	4	12	54983.0	54983.0	0.11%	6.05	0.08	6.13	32.32	30	5	38.45	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.04%	11.07	0.14	11.21	20.86	32	4	32.08	NCLSLT
NBB0118_4-25	25	4	18	83918.6	83918.6	0.00%	10.21	0.12	10.33	10.22	32	4	20.55	NCLSLT
NBB0218_4-25	25	4	18	81002.0	81002.0	0.07%	9.56	0.16	9.72	40.15	24	3	49.87	NCLSLT
NBB0318_4-25	25	4	18	80530.8	80530.8	0.05%	11.50	0.17	11.68	21.41	32	4	33.09	NCLSLT
NBB0418_4-25	25	4	18	83347.5	83347.5	0.00%	4.36	0.10	4.47	4.25	24	3	8.72	NCLSLT
NBB0518_4-25	25	4	18	84483.3	84483.3	0.10%	13.35	0.21	13.56	28.25	32	4	41.82	NCLSLT
NBB0618_4-25	25	4	18	77417.4	77417.4	0.00%	5.56	0.11	5.67	5.11	24	3	10.78	NCLSLT
NBB0718_4-25	25	4	18	82811.6	82811.6	0.17%	16.62	0.16	16.79	42.78	16	2	59.58	NCLSLT
NBB0818_4-25	25	4	18	78524.1	78524.1	0.00%	10.10	0.13	10.23	11.58	32	4	21.81	NCLSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0918_4-25	25	4	18	82454.2	82454.2	0.08%	10.70	0.14	10.85	25.64	24	3	36.49	NCLSLT
NBB006_4-50	50	4	6	54640.8	54640.8	0.00%	2.19	0.09	2.28	2.51	25	5	4.79	NCLSLT
NBB016_4-50	50	4	6	55414.5	55414.5	0.00%	2.05	0.06	2.11	1.89	20	4	4.00	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%	2.37	0.06	2.43	2.91	20	4	5.34	NCLSLT
NBB036_4-50	50	4	6	55274.6	55274.6	0.01%	2.94	0.30	3.25	8.43	20	4	11.68	NCLSLT
NBB046_4-50	50	4	6	56930.2	56930.2	0.02%	2.63	0.06	2.69	6.48	25	5	9.18	NCLSLT
NBB056_4-50	50	4	6	57376.1	57376.1	0.01%	1.45	0.06	1.51	1.60	15	3	3.12	NCLSLT
NBB066_4-50	50	4	6	52877.4	52877.4	0.01%	1.84	0.11	1.96	3.65	15	3	5.60	NCLSLT
NBB076_4-50	50	4	6	51689.4	51689.4	0.03%	2.75	0.08	2.83	3.81	20	4	6.64	NCLSLT
NBB086_4-50	50	4	6	52922.9	52922.9	0.00%	1.95	0.10	2.05	3.63	15	3	5.69	NCLSLT
NBB096_4-50	50	4	6	60182.5	60182.5	0.03%	1.89	0.10	1.99	2.19	15	3	4.19	NCLSLT
NBB0012_4-50	50	4	12	110453.6	110453.6	0.01%	6.87	0.18	7.05	17.12	18	3	24.18	NCLSLT
NBB0112_4-50	50	4	12	108483.9	108483.9	0.01%	5.57	0.13	5.70	6.29	18	3	11.99	NCLSLT
NBB0212_4-50	50	4	12	108029.4	108029.4	0.01%	7.17	0.14	7.31	9.59	24	4	16.91	NCLSLT
NBB0312_4-50	50	4	12	110203.2	110203.2	0.03%	9.97	0.17	10.15	12.28	24	4	22.43	NCLSLT
NBB0412_4-50	50	4	12	109753.9	109753.9	0.07%	7.65	0.28	7.93	27.89	18	3	35.83	NCLSLT
NBB0512_4-50	50	4	12	112016.7	112016.7	0.00%	4.02	0.10	4.13	3.14	18	3	7.27	NCLSLT
NBB0612_4-50	50	4	12	104017.8	104017.8	0.00%	3.68	0.11	3.79	2.07	12	2	5.86	NCLSLT
NBB0712_4-50	50	4	12	106647.6	106647.6	0.04%	9.01	0.16	9.17	25.50	24	4	34.68	NCLSLT
NBB0812_4-50	50	4	12	106520.5	106520.5	0.00%	3.92	0.12	4.04	4.49	24	4	8.53	NCLSLT
NBB0912_4-50	50	4	12	114396.7	114396.7	0.02%	7.47	0.16	7.63	16.36	24	4	23.99	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.01%	13.42	0.29	13.72	21.38	24	3	35.10	NCLSLT
NBB0118_4-50	50	4	18	161829.1	161829.1	0.01%	12.16	0.24	12.41	21.02	32	4	33.43	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.01%	11.11	0.38	11.49	19.68	16	2	31.17	NCLSLT
NBB0318_4-50	50	4	18	163429.1	163429.1	0.07%	24.40	0.48	24.89	82.90	24	3	107.80	NCLSLT
NBB0418_4-50	50	4	18	166616.4	166616.4	0.06%	19.61	0.27	19.88	101.68	40	5	121.57	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.01%	9.15	0.18	9.35	15.05	32	4	24.40	NCLSLT
NBB0618_4-50	50	4	18	156366.5	156366.5	0.01%	7.71	0.23	8.14	8.66	16	2	16.81	NCLSLT
NBB0718_4-50	50	4	18	161802.5	161802.5	0.06%	27.21	0.24	27.46	72.40	32	4	99.86	NCLSLT
NBB0818_4-50	50	4	18	157367.1	157367.1	0.00%	8.22	0.21	8.43	10.97	32	4	19.41	NCLSLT
NBB0918_4-50	50	4	18	168535.8	168535.8	0.00%	10.26	0.31	10.59	22.79	32	4	33.38	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%	0.75	0.04	0.79	0.24	15	3	1.04	NCLSLT
NBB016_6-6	6	6	6	7380.7	7380.7	0.28%	1.46	0.08	1.55	1.64	15	3	3.19	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%	0.76	0.05	0.81	0.34	15	3	1.15	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%	0.95	0.07	1.02	0.57	15	3	1.59	NCLSLT
NBB046_6-6	6	6	6	8184.6	8184.6	0.19%	1.27	0.09	1.36	0.70	15	3	2.06	NCLSLT
NBB056_6-6	6	6	6	8067.6	8067.6	0.00%	1.10	0.05	1.15	0.71	15	3	1.86	NCLSLT
NBB066_6-6	6	6	6	6775.2	6775.2	0.01%	0.72	0.04	0.76	0.42	15	3	1.18	NCLSLT
NBB076_6-6	6	6	6	7843.3	7843.3	0.21%	1.66	0.04	1.70	0.59	15	3	2.29	NCLSLT
NBB086_6-6	6	6	6	6726.0	6726.0	0.00%	1.28	0.06	1.34	0.40	15	3	1.75	NCLSLT
NBB096_6-6	6	6	6	7615.0	7615.0	0.18%	1.33	0.03	1.36	2.09	25	5	3.46	NCLSLT
NBB0012_6-6	6	6	12	12211.6	12211.6	0.07%	2.10	0.06	2.16	0.85	24	4	3.02	NCLSLT
NBB0112_6-6	6	6	12	14413.5	14413.5	0.08%	4.82	0.17	4.99	1.47	18	3	6.46	NCLSLT
NBB0212_6-6	6	6	12	14372.7	14372.7	0.05%	6.98	0.13	7.11	1.18	18	3	8.29	NCLSLT
NBB0312_6-6	6	6	12	14878.4	14878.4	0.00%	4.68	0.10	4.78	1.23	18	3	6.01	NCLSLT
NBB0412_6-6	6	6	12	15165.0	15165.0	0.19%	7.15	0.16	7.31	3.43	24	4	10.75	NCLSLT
NBB0512_6-6	6	6	12	14854.7	14854.7	0.12%	3.38	0.13	3.51	2.24	18	3	5.74	NCLSLT
NBB0612_6-6	6	6	12	12876.5	12876.5	0.00%	4.32	0.08	4.41	2.02	18	3	6.43	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%	5.72	0.11	5.83	1.73	30	5	7.56	NCLSLT
NBB0812_6-6	6	6	12	12743.8	12743.8	0.35%	6.32	0.11	6.43	2.39	30	5	8.82	NCLSLT
NBB0912_6-6	6	6	12	14424.9	14424.9	0.18%	6.53	0.12	6.65	2.85	24	4	9.50	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%	7.33	0.11	7.45	1.13	24	3	8.58	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%	14.59	0.25	14.84	4.49	40	5	19.34	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%	11.22	0.19	11.42	2.98	24	3	14.40	NCLSLT
NBB0418_6-6	6	6	18	22524.3	22524.3	0.00%	17.84	0.14	17.98	6.25	32	4	24.23	NCLSLT
NBB0518_6-6	6	6	18	22519.5	22519.5	0.04%	9.37	0.14	9.51	3.20	24	3	12.72	NCLSLT
NBB0618_6-6	6	6	18	20306.9	20306.9	0.00%	12.77	0.08	12.85	6.33	32	4	19.18	NCLSLT
NBB0718_6-6	6	6	18	22131.6	22131.6	0.04%	13.89	0.16	14.05	4.02	32	4	18.08	NCLSLT
NBB0818_6-6	6	6	18	20338.4	20338.4	0.02%	20.65	0.21	20.86	6.59	48	6	27.45	NCLSLT
NBB0918_6-6	6	6	18	21829.3	21829.3	0.05%	18.27	0.19	18.47	17.54	32	4	36.01	NCLSLT
NBB006_6-12	12	6	6	12837.0	12837.0	0.06%	1.47	0.05	1.52	1.28	20	4	2.80	NCLSLT
NBB016_6-12	12	6	6	13163.8	13163.8	0.00%	1.59	0.09	1.68	2.41	20	4	4.10	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%	1.11	0.09	1.20	0.63	10	2	1.83	NCLSLT
NBB036_6-12	12	6	6	13017.9	13017.9	0.00%	0.92	0.03	0.96	0.46	15	3	1.42	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%	1.12	0.05	1.18	0.87	20	4	2.05	NCLSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_6-12	12	6	6	12410.7	12410.7	0.00%	0.92	0.05	0.97	0.73	15	3	1.70	NCLSLT
NBB066_6-12	12	6	6	11748.5	11748.5	0.18%	1.55	0.04	1.59	0.70	10	2	2.29	NCLSLT
NBB076_6-12	12	6	6	13690.4	13690.4	0.33%	2.08	0.05	2.14	4.21	15	3	6.35	NCLSLT
NBB086_6-12	12	6	6	13569.0	13569.0	0.30%	2.25	0.04	2.29	1.87	15	3	4.16	NCLSLT
NBB096_6-12	12	6	6	14440.3	14440.3	0.09%	1.89	0.07	1.96	1.76	15	3	3.73	NCLSLT
NBB0012_6-12	12	6	12	24289.2	24289.2	0.00%	4.25	0.12	4.37	4.19	30	5	8.56	NCLSLT
NBB0112_6-12	12	6	12	25791.0	25791.0	0.03%	4.43	0.17	4.60	3.84	24	4	8.45	NCLSLT
NBB0212_6-12	12	6	12	24299.6	24299.6	0.05%	6.32	0.18	6.50	8.73	18	3	15.23	NCLSLT
NBB0312_6-12	12	6	12	26668.2	26668.2	0.02%	3.96	0.15	4.11	3.43	24	4	7.54	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%	2.99	0.12	3.12	3.06	24	4	6.18	NCLSLT
NBB0512_6-12	12	6	12	26411.8	26411.8	0.02%	5.37	0.16	5.54	3.31	18	3	8.85	NCLSLT
NBB0612_6-12	12	6	12	23729.5	23729.5	0.03%	5.90	0.10	6.01	5.08	24	4	11.09	NCLSLT
NBB0712_6-12	12	6	12	28196.7	28196.7	0.06%	6.41	0.14	6.55	17.09	18	3	23.64	NCLSLT
NBB0812_6-12	12	6	12	26083.3	26083.3	0.18%	8.20	0.17	8.38	12.21	24	4	20.59	NCLSLT
NBB0912_6-12	12	6	12	27505.0	27505.0	0.00%	5.47	0.33	5.80	11.67	24	4	17.47	NCLSLT
NBB0018_6-12	12	6	18	36609.7	36609.7	0.00%	12.08	0.13	12.21	10.76	32	4	22.97	NCLSLT
NBB0118_6-12	12	6	18	41396.4	41396.4	0.09%	13.62	0.14	13.76	27.78	40	5	41.54	NCLSLT
NBB0218_6-12	12	6	18	37095.0	37095.0	0.11%	11.11	0.20	11.32	25.83	24	3	37.15	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%	8.52	0.16	8.68	7.39	32	4	16.08	NCLSLT
NBB0418_6-12	12	6	18	37154.6	37154.6	0.01%	6.94	0.15	7.10	6.13	24	3	13.23	NCLSLT
NBB0518_6-12	12	6	18	40708.1	40708.1	0.03%	10.22	0.16	10.38	13.74	32	4	24.12	NCLSLT
NBB0618_6-12	12	6	18	37569.5	37569.5	0.12%	16.39	0.18	16.57	22.62	32	4	39.19	NCLSLT
NBB0718_6-12	12	6	18	41753.1	41753.1	0.20%	16.96	0.16	17.12	53.55	32	4	70.67	NCLSLT
NBB0818_6-12	12	6	18	39702.7	39702.7	0.30%	21.26	0.20	21.47	89.16	40	5	110.63	NCLSLT
NBB0918_6-12	12	6	18	41494.0	41494.0	0.13%	21.72	0.15	21.87	36.07	24	3	57.95	NCLSLT
NBB006_6-25	25	6	6	25740.0	25740.0	0.05%	2.66	0.11	2.77	21.68	15	3	24.46	NCLSLT
NBB016_6-25	25	6	6	25439.8	25439.8	0.00%	2.37	0.08	2.45	10.08	15	3	12.53	NCLSLT
NBB026_6-25	25	6	6	26847.0	26847.0	0.08%	1.60	0.07	1.67	2.50	25	5	4.17	NCLSLT
NBB036_6-25	25	6	6	26883.9	26883.9	0.06%	2.73	0.16	2.89	18.02	20	4	20.91	NCLSLT
NBB046_6-25	25	6	6	28607.4	28607.4	0.18%	3.85	0.09	3.95	32.18	20	4	36.14	NCLSLT
NBB056_6-25	25	6	6	26354.0	26354.0	0.03%	2.75	0.06	2.81	10.88	20	4	13.70	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%	1.47	0.06	1.54	2.87	15	3	4.41	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%	2.82	0.06	2.88	4.68	20	4	7.56	NCLSLT
NBB086_6-25	25	6	6	26727.2	26727.2	0.04%	2.42	0.05	2.48	19.81	20	4	22.29	NCLSLT
NBB096_6-25	25	6	6	26421.3	26421.3	0.02%	2.72	0.09	2.82	2.90	15	3	5.72	NCLSLT
NBB0012_6-25	25	6	12	52549.6	52549.6	0.13%	9.03	0.22	9.25	33.25	18	3	42.50	NCLSLT
NBB0112_6-25	25	6	12	52734.1	52734.1	0.17%	9.90	0.17	10.07	60.84	24	4	70.91	NCLSLT
NBB0212_6-25	25	6	12	54110.2	54110.2	0.13%	6.66	0.17	6.83	16.03	24	4	22.87	NCLSLT
NBB0312_6-25	25	6	12	52590.1	52590.1	0.24%	10.66	0.19	10.85	60.52	24	4	71.37	NCLSLT
NBB0412_6-25	25	6	12	56130.2	56130.2	0.19%	10.77	0.16	10.94	78.16	24	4	89.10	NCLSLT
NBB0512_6-25	25	6	12	51918.6	51918.6	0.14%	10.84	0.28	11.12	30.65	18	3	41.78	NCLSLT
NBB0612_6-25	25	6	12	51053.9	51053.9	0.03%	4.72	0.18	4.89	4.87	24	4	9.77	NCLSLT
NBB0712_6-25	25	6	12	52854.1	52854.1	0.11%	8.96	0.14	9.10	24.33	24	4	33.44	NCLSLT
NBB0812_6-25	25	6	12	51299.3	51299.3	0.05%	7.35	0.23	7.59	27.99	24	4	35.58	NCLSLT
NBB0912_6-25	25	6	12	53724.3	53724.3	0.05%	8.23	0.23	8.46	32.87	24	4	41.33	NCLSLT
NBB0018_6-25	25	6	18	76607.5	76607.5	0.24%	18.84	0.66	19.51	124.50	24	3	144.02	NCLSLT
NBB0118_6-25	25	6	18	79518.8	79518.8	0.10%	19.15	0.38	19.54	90.18	32	4	109.72	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.06%	21.39	0.22	21.62	43.05	32	4	64.67	NCLSLT
NBB0318_6-25	25	6	18	80014.8	80014.8	0.26%	22.58	0.36	22.95	340.52	48	6	363.48	NCLSLT
NBB0418_6-25	25	6	18	85073.2	85073.2	0.15%	23.58	0.32	23.90	135.30	24	3	159.21	NCLSLT
NBB0518_6-25	25	6	18	81137.1	81137.1	0.11%	24.26	0.52	24.79	97.88	40	5	122.68	NCLSLT
NBB0618_6-25	25	6	18	76383.8	76383.8	0.01%	10.60	0.25	10.85	13.94	32	4	24.79	NCLSLT
NBB0718_6-25	25	6	18	77902.8	77902.8	0.13%	17.29	0.40	17.70	96.58	24	3	114.28	NCLSLT
NBB0818_6-25	25	6	18	75242.6	75242.6	0.07%	20.07	0.37	20.45	46.54	24	3	67.00	NCLSLT
NBB0918_6-25	25	6	18	81476.8	81476.8	0.07%	15.68	0.23	15.92	54.57	32	4	70.49	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%	4.20	0.16	4.36	15.52	25	5	19.88	NCLSLT
NBB016_6-50	50	6	6	50711.4	50711.4	0.05%	3.75	0.22	3.97	15.38	20	4	19.35	NCLSLT
NBB026_6-50	50	6	6	52234.3	52234.3	0.03%	4.69	0.11	4.81	35.80	20	4	40.61	NCLSLT
NBB036_6-50	50	6	6	51753.8	51753.8	0.02%	2.97	0.14	3.12	10.28	20	4	13.40	NCLSLT
NBB046_6-50	50	6	6	54083.4	54083.4	0.06%	4.28	0.33	4.62	28.02	15	3	32.65	NCLSLT
NBB056_6-50	50	6	6	52839.9	52839.9	0.03%	3.81	0.22	4.03	19.32	15	3	23.36	NCLSLT
NBB066_6-50	50	6	6	52053.3	52053.3	0.03%	4.55	0.15	4.71	51.78	25	5	56.49	NCLSLT
NBB076_6-50	50	6	6	54044.5	54044.5	0.04%	3.59	0.09	3.68	5.51	15	3	9.20	NCLSLT
NBB086_6-50	50	6	6	50951.4	50951.4	0.01%	3.66	0.18	3.84	16.14	15	3	19.98	NCLSLT
NBB096_6-50	50	6	6	50726.3	50726.3	0.03%	3.01	0.18	3.20	9.84	20	4	13.04	NCLSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_6-50	50	6	12	102544.9	102544.9	0.01%	11.45	0.21	11.67	38.25	30	5	49.92	NCLSLT
NBB0112_6-50	50	6	12	101615.9	101615.9	0.04%	11.77	0.24	12.01	32.66	18	3	44.68	NCLSLT
NBB0212_6-50	50	6	12	105232.6	105232.6	0.08%	14.34	0.33	14.67	73.54	18	3	88.22	NCLSLT
NBB0312_6-50	50	6	12	102721.9	102721.9	0.10%	12.26	0.26	12.52	22.70	18	3	35.23	NCLSLT
NBB0412_6-50	50	6	12	109871.4	109871.4	0.08%	13.43	0.71	14.36	82.57	24	4	96.94	NCLSLT
NBB0512_6-50	50	6	12	105489.2	105489.2	0.05%	11.23	0.33	11.57	57.25	30	5	68.82	NCLSLT
NBB0612_6-50	50	6	12	102202.1	102202.1	0.09%	16.01	0.40	16.43	122.56	36	6	138.99	NCLSLT
NBB0712_6-50	50	6	12	107676.0	107676.0	0.07%	10.58	0.21	10.80	34.44	18	3	45.25	NCLSLT
NBB0812_6-50	50	6	12	100015.7	100015.7	0.07%	10.92	0.50	11.43	36.79	24	4	48.22	NCLSLT
NBB0912_6-50	50	6	12	102430.6	102430.6	0.04%	12.28	0.29	12.58	43.98	24	4	56.56	NCLSLT
NBB0018_6-50	50	6	18	152963.8	152963.8	0.05%	29.02	0.45	29.48	100.79	24	3	130.28	NCLSLT
NBB0118_6-50	50	6	18	151121.7	151121.7	0.04%	26.22	0.86	27.09	93.53	32	4	120.62	NCLSLT
NBB0218_6-50	50	6	18	154695.8	154695.8	0.10%	29.22	0.45	29.69	149.76	24	3	179.45	NCLSLT
NBB0318_6-50	50	6	18	154352.0	154352.0	0.03%	25.61	0.45	26.07	62.97	24	3	89.05	NCLSLT
NBB0418_6-50	50	6	18	164997.4	164997.4	0.07%	27.88	0.87	28.76	185.26	40	5	214.03	NCLSLT
NBB0518_6-50	50	6	18	155609.3	155609.3	0.11%	31.87	0.80	32.68	143.63	24	3	176.32	NCLSLT
NBB0618_6-50	50	6	18	154606.8	154606.8	0.15%	35.63	0.81	36.45	164.05	24	3	200.50	NCLSLT
NBB0718_6-50	50	6	18	159230.7	159230.7	0.05%	26.47	0.39	26.87	116.33	32	4	143.21	NCLSLT
NBB0818_6-50	50	6	18	151211.1	151211.1	0.07%	19.98	0.58	20.56	77.99	32	4	98.56	NCLSLT
NBB0918_6-50	50	6	18	154289.0	154289.0	0.03%	23.76	0.79	24.55	73.46	24	3	98.02	NCLSLT
AAA006_2-6	6	2	6	14376.3	14376.3	1.67%	0.38	0.02	0.40	0.15	10	2	0.55	TCHSHT
AAA016_2-6	6	2	6	11713.2	11713.2	0.86%	0.45	0.02	0.46	0.46	15	3	0.93	TCHSHT
AAA026_2-6	6	2	6	14956.5	14956.5	0.00%	0.27	0.06	0.32	0.27	15	3	0.59	TCHSHT
AAA036_2-6	6	2	6	16633.5	16633.5	1.41%	0.29	0.02	0.32	0.42	20	4	0.75	TCHSHT
AAA046_2-6	6	2	6	17453.8	17453.8	0.62%	0.34	0.02	0.36	0.47	15	3	0.83	TCHSHT
AAA056_2-6	6	2	6	17282.9	17282.9	1.73%	0.27	0.02	0.28	0.25	10	2	0.54	TCHSHT
AAA066_2-6	6	2	6	17374.1	17374.1	3.36%	0.35	0.02	0.38	0.47	15	3	0.85	TCHSHT
AAA076_2-6	6	2	6	17833.3	17833.3	3.11%	0.30	0.02	0.32	0.35	10	2	0.67	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%	0.23	0.02	0.26	0.13	10	2	0.38	TCHSHT
AAA096_2-6	6	2	6	13827.8	13827.8	4.90%	0.22	0.02	0.25	0.17	10	2	0.42	TCHSHT
AAA0012_2-6	6	2	12	24878.1	24878.1	1.28%	1.05	0.02	1.07	1.00	24	4	2.08	TCHSHT
AAA0112_2-6	6	2	12	24520.8	24520.8	1.09%	1.87	0.03	1.91	1.35	24	4	3.26	TCHSHT
AAA0212_2-6	6	2	12	28219.8	28219.8	2.65%	1.12	0.03	1.15	0.78	18	3	1.92	TCHSHT
AAA0412_2-6	6	2	12	29768.9	29768.9	4.06%	1.42	0.04	1.47	1.70	18	3	3.16	TCHSHT
AAA0512_2-6	6	2	12	32425.3	32425.3	2.31%	1.22	0.04	1.26	1.39	18	3	2.65	TCHSHT
AAA0612_2-6	6	2	12	28987.9	28987.9	0.49%	0.97	0.04	1.02	0.94	24	4	1.95	TCHSHT
AAA0712_2-6	6	2	12	27502.9	27502.9	0.18%	1.88	0.05	1.94	0.94	24	4	2.87	TCHSHT
AAA0812_2-6	6	2	12	22958.8	22958.8	2.02%	1.00	0.02	1.02	0.61	18	3	1.63	TCHSHT
AAA0912_2-6	6	2	12	27831.3	27831.3	0.26%	1.27	0.06	1.33	0.70	18	3	2.03	TCHSHT
AAA0018_2-6	6	2	18	34138.7	34138.7	1.51%	5.96	0.05	6.00	2.91	24	3	8.91	TCHSHT
AAA0118_2-6	6	2	18	34930.9	34930.9	2.13%	4.16	0.06	4.22	3.47	24	3	7.69	TCHSHT
AAA0218_2-6	6	2	18	39888.6	39888.6	0.50%	3.00	0.07	3.06	1.18	24	3	4.24	TCHSHT
AAA0418_2-6	6	2	18	37212.7	37212.7	0.00%	5.57	0.05	5.62	2.44	32	4	8.05	TCHSHT
AAA0518_2-6	6	2	18	42925.6	42925.6	0.45%	3.33	0.06	3.39	2.36	48	6	5.76	TCHSHT
AAA0618_2-6	6	2	18	40184.7	40184.7	1.79%	2.95	0.05	2.99	4.70	56	7	7.70	TCHSHT
AAA0718_2-6	6	2	18	39904.4	39904.4	0.71%	4.14	0.04	4.18	2.23	32	4	6.41	TCHSHT
AAA0818_2-6	6	2	18	32384.3	32384.3	1.12%	2.27	0.03	2.31	1.21	24	3	3.53	TCHSHT
AAA0918_2-6	6	2	18	36817.4	36817.4	1.47%	2.25	0.08	2.33	3.36	32	4	5.70	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%	0.50	0.02	0.52	0.55	20	4	1.07	TCHSHT
AAA016_2-12	12	2	6	25513.8	25513.8	0.00%	0.56	0.02	0.58	0.30	10	2	0.88	TCHSHT
AAA026_2-12	12	2	6	27271.4	27271.4	1.27%	0.62	0.02	0.64	0.29	10	2	0.93	TCHSHT
AAA036_2-12	12	2	6	30659.5	30659.5	2.73%	0.42	0.02	0.45	0.41	10	2	0.86	TCHSHT
AAA046_2-12	12	2	6	26439.7	26439.7	1.95%	0.46	0.03	0.49	0.43	15	3	0.92	TCHSHT
AAA056_2-12	12	2	6	30044.6	30044.6	0.60%	0.64	0.02	0.66	1.06	20	4	1.72	TCHSHT
AAA066_2-12	12	2	6	26421.1	26421.1	0.91%	0.50	0.02	0.52	0.51	15	3	1.04	TCHSHT
AAA076_2-12	12	2	6	26157.1	26157.1	0.22%	0.46	0.02	0.48	0.50	15	3	0.98	TCHSHT
AAA086_2-12	12	2	6	25046.5	25046.5	1.85%	0.44	0.03	0.46	1.04	20	4	1.50	TCHSHT
AAA096_2-12	12	2	6	28350.7	28350.7	0.72%	0.60	0.03	0.62	1.15	20	4	1.77	TCHSHT
AAA0012_2-12	12	2	12	42417.3	42417.3	0.78%	1.68	0.04	1.72	4.96	24	4	6.69	TCHSHT
AAA0112_2-12	12	2	12	42808.8	42808.8	1.31%	2.12	0.03	2.15	0.84	12	2	2.99	TCHSHT
AAA0212_2-12	12	2	12	44981.1	44981.1	0.28%	2.41	0.07	2.48	5.55	30	5	8.03	TCHSHT
AAA0312_2-12	12	2	12	54800.9	54800.9	2.22%	2.19	0.05	2.24	3.44	18	3	5.69	TCHSHT
AAA0412_2-12	12	2	12	45635.1	45635.1	0.15%	1.91	0.06	1.97	2.95	24	4	4.92	TCHSHT
AAA0512_2-12	12	2	12	53588.5	53588.5	0.71%	1.73	0.04	1.78	3.55	24	4	5.32	TCHSHT
AAA0612_2-12	12	2	12	47276.2	47276.2	1.75%	2.10	0.04	2.14	1.57	24	4	3.71	TCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0712_2-12	12	2	12	50250.9	50250.9	1.44%	1.65	0.04	1.69	1.50	18	3	3.19	TCHSHT
AAA0812_2-12	12	2	12	42343.9	42343.9	0.50%	1.42	0.05	1.47	1.98	30	5	3.45	TCHSHT
AAA0912_2-12	12	2	12	52718.0	52718.0	1.76%	2.44	0.06	2.50	5.63	24	4	8.13	TCHSHT
AAA0118_2-12	12	2	18	63526.4	63526.4	1.08%	5.62	0.07	5.69	10.20	32	4	15.89	TCHSHT
AAA0218_2-12	12	2	18	67376.4	67376.4	1.97%	5.64	0.06	5.71	12.96	40	5	18.67	TCHSHT
AAA0318_2-12	12	2	18	77041.6	77041.6	1.51%	3.55	0.07	3.62	10.95	40	5	14.57	TCHSHT
AAA0418_2-12	12	2	18	68436.7	68436.7	0.70%	4.75	0.06	4.80	14.27	48	6	19.07	TCHSHT
AAA0518_2-12	12	2	18	75051.3	75051.3	0.87%	4.35	0.07	4.42	31.94	40	5	36.37	TCHSHT
AAA0618_2-12	12	2	18	67938.5	67938.5	1.24%	4.92	0.05	4.97	8.46	32	4	13.44	TCHSHT
AAA0718_2-12	12	2	18	68358.8	68358.8	0.13%	3.37	0.07	3.45	3.64	32	4	7.09	TCHSHT
AAA0818_2-12	12	2	18	66011.0	66011.0	0.52%	3.26	0.06	3.32	6.14	32	4	9.46	TCHSHT
AAA0918_2-12	12	2	18	74783.5	74783.5	1.36%	4.66	0.08	4.74	37.58	56	7	42.32	TCHSHT
AAA006_2-25	25	2	6	49509.9	49509.9	0.55%	0.95	0.04	0.99	1.07	15	3	2.06	TCHSHT
AAA016_2-25	25	2	6	50149.2	50149.2	0.40%	0.87	0.04	0.91	0.92	15	3	1.83	TCHSHT
AAA026_2-25	25	2	6	53856.6	53856.6	0.85%	1.06	0.04	1.10	2.61	25	5	3.72	TCHSHT
AAA036_2-25	25	2	6	55329.5	55329.5	0.84%	0.81	0.05	0.86	1.73	20	4	2.60	TCHSHT
AAA046_2-25	25	2	6	56526.7	56526.7	0.61%	0.84	0.04	0.88	1.42	15	3	2.29	TCHSHT
AAA056_2-25	25	2	6	59141.0	59141.0	0.59%	1.04	0.03	1.06	2.70	15	3	3.76	TCHSHT
AAA066_2-25	25	2	6	47725.4	47725.4	0.89%	0.86	0.03	0.90	1.13	20	4	2.03	TCHSHT
AAA076_2-25	25	2	6	53414.3	53414.3	0.20%	0.98	0.02	1.00	1.71	15	3	2.71	TCHSHT
AAA086_2-25	25	2	6	56808.2	56808.2	0.31%	0.91	0.04	0.95	2.36	20	4	3.31	TCHSHT
AAA096_2-25	25	2	6	63731.0	63731.0	1.73%	0.94	0.03	0.97	3.22	15	3	4.20	TCHSHT
AAA0012_2-25	25	2	12	90618.4	90618.4	0.30%	3.52	0.04	3.56	11.59	24	4	15.16	TCHSHT
AAA0112_2-25	25	2	12	95838.6	95838.6	0.02%	2.83	0.07	2.90	5.23	18	3	8.14	TCHSHT
AAA0212_2-25	25	2	12	93529.9	93529.9	0.96%	4.12	0.05	4.18	11.21	24	4	15.39	TCHSHT
AAA0312_2-25	25	2	12	97470.8	97470.8	1.22%	2.83	0.11	2.94	49.74	48	8	52.68	TCHSHT
AAA0412_2-25	25	2	12	96223.9	96223.9	0.52%	3.85	0.23	4.08	8.61	12	2	12.70	TCHSHT
AAA0512_2-25	25	2	12	109219.0	109219.0	0.93%	3.54	0.07	3.61	11.45	36	6	15.06	TCHSHT
AAA0612_2-25	25	2	12	92828.6	92828.6	0.87%	3.01	0.10	3.11	14.45	30	5	17.56	TCHSHT
AAA0712_2-25	25	2	12	97651.3	97651.3	0.78%	2.73	0.04	2.78	7.23	18	3	10.00	TCHSHT
AAA0812_2-25	25	2	12	101198.9	101198.9	0.72%	3.10	0.08	3.18	28.03	36	6	31.21	TCHSHT
AAA0912_2-25	25	2	12	106428.6	106428.6	0.79%	4.01	0.10	4.11	11.83	24	4	15.95	TCHSHT
AAA0018_2-25	25	2	18	130774.3	130774.3	0.28%	8.10	0.12	8.23	20.66	32	4	28.89	TCHSHT
AAA0118_2-25	25	2	18	134626.4	134626.4	0.43%	8.38	0.13	8.52	42.19	40	5	50.71	TCHSHT
AAA0218_2-25	25	2	18	132975.1	132975.1	0.85%	10.87	0.13	11.01	60.40	32	4	71.41	TCHSHT
AAA0318_2-25	25	2	18	144771.2	144771.2	0.29%	7.21	0.13	7.34	66.46	56	7	73.80	TCHSHT
AAA0418_2-25	25	2	18	139454.7	139454.7	0.58%	8.55	0.11	8.66	60.69	48	6	69.36	TCHSHT
AAA0518_2-25	25	2	18	151932.6	151932.6	0.61%	8.59	0.06	8.65	88.23	48	6	96.89	TCHSHT
AAA0618_2-25	25	2	18	129530.2	129530.2	0.43%	6.56	0.10	6.65	24.86	32	4	31.51	TCHSHT
AAA0718_2-25	25	2	18	144428.2	144428.2	0.95%	9.88	0.18	10.06	91.07	32	4	101.13	TCHSHT
AAA0818_2-25	25	2	18	141859.7	141859.7	0.67%	8.37	0.10	8.47	71.85	40	5	80.32	TCHSHT
AAA0918_2-25	25	2	18	153382.6	153382.6	1.15%	9.96	0.15	10.11	107.86	40	5	117.97	TCHSHT
AAA006_2-50	50	2	6	97573.3	97573.3	0.51%	1.59	0.08	1.68	4.22	15	3	5.90	TCHSHT
AAA016_2-50	50	2	6	100726.7	100726.7	0.41%	1.64	0.07	1.71	1.67	10	2	3.38	TCHSHT
AAA026_2-50	50	2	6	98899.2	98899.2	0.31%	1.67	0.03	1.70	4.97	15	3	6.67	TCHSHT
AAA036_2-50	50	2	6	106277.4	106277.4	0.15%	1.58	0.03	1.61	4.35	20	4	5.96	TCHSHT
AAA046_2-50	50	2	6	113024.6	113024.6	0.38%	1.78	0.09	1.87	10.82	20	4	12.70	TCHSHT
AAA056_2-50	50	2	6	110274.0	110274.0	0.13%	1.81	0.06	1.86	8.71	15	3	10.58	TCHSHT
AAA066_2-50	50	2	6	99557.8	99557.8	0.57%	1.74	0.07	1.80	6.37	25	5	8.18	TCHSHT
AAA076_2-50	50	2	6	106279.1	106279.1	0.04%	1.88	0.09	1.97	6.43	10	2	8.40	TCHSHT
AAA086_2-50	50	2	6	103110.8	103110.8	0.22%	1.90	0.06	1.96	3.92	10	2	5.88	TCHSHT
AAA096_2-50	50	2	6	108023.4	108023.4	0.13%	1.70	0.07	1.77	4.50	15	3	6.28	TCHSHT
AAA0012_2-50	50	2	12	180070.6	180070.6	0.13%	4.76	0.08	4.85	18.10	30	5	22.95	TCHSHT
AAA0112_2-50	50	2	12	187243.1	187243.1	0.33%	4.94	0.14	5.08	13.30	24	4	18.39	TCHSHT
AAA0212_2-50	50	2	12	181417.8	181417.8	0.31%	4.57	0.08	4.65	31.39	30	5	36.04	TCHSHT
AAA0312_2-50	50	2	12	192956.8	192956.8	0.25%	4.90	0.15	5.05	10.98	24	4	16.03	TCHSHT
AAA0412_2-50	50	2	12	201402.0	201402.0	0.48%	6.99	0.11	7.11	84.11	30	5	91.22	TCHSHT
AAA0512_2-50	50	2	12	198668.2	198668.2	0.51%	4.46	0.17	4.64	44.88	24	4	49.52	TCHSHT
AAA0612_2-50	50	2	12	177544.7	177544.7	0.20%	5.10	0.09	5.19	13.88	24	4	19.07	TCHSHT
AAA0712_2-50	50	2	12	191196.2	191196.2	0.59%	6.47	0.12	6.60	67.64	24	4	74.23	TCHSHT
AAA0812_2-50	50	2	12	183303.6	183303.6	0.16%	5.07	0.34	5.41	26.17	24	4	31.59	TCHSHT
AAA0912_2-50	50	2	12	195690.5	195690.5	0.40%	6.40	0.11	6.50	25.72	24	4	32.22	TCHSHT
AAA0018_2-50	50	2	18	262048.3	262048.3	0.09%	11.18	0.11	11.29	52.63	32	4	63.93	TCHSHT
AAA0118_2-50	50	2	18	270581.1	270581.1	0.22%	12.56	0.24	12.81	54.23	32	4	67.04	TCHSHT
AAA0218_2-50	50	2	18	261315.1	261315.1	0.26%	11.77	0.16	11.93	85.38	40	5	97.31	TCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0318_2-50	50	2	18	282688.0	282688.0	0.24%	10.69	0.16	10.85	73.22	40	5	84.09	TCHSHT
AAA0418_2-50	50	2	18	292910.6	292910.6	0.41%	15.80	0.20	16.00	195.11	40	5	211.11	TCHSHT
AAA0518_2-50	50	2	18	287960.6	287960.6	0.23%	10.70	0.15	10.85	145.10	48	6	155.96	TCHSHT
AAA0618_2-50	50	2	18	259642.2	259642.2	0.18%	12.62	0.17	12.79	47.06	32	4	59.85	TCHSHT
AAA0718_2-50	50	2	18	274136.3	274136.3	0.20%	11.61	0.24	11.85	115.44	32	4	127.29	TCHSHT
AAA0818_2-50	50	2	18	265971.1	265971.1	0.18%	12.00	0.17	12.17	95.40	40	5	107.57	TCHSHT
AAA0918_2-50	50	2	18	284299.1	284299.1	0.30%	13.74	0.16	13.90	157.09	48	6	171.00	TCHSHT
AAA006_4-6	6	4	6	9656.0	9656.0	0.18%	0.57	0.03	0.60	0.39	20	4	0.99	TCHSHT
AAA016_4-6	6	4	6	12260.2	12260.2	0.00%	0.69	0.03	0.73	1.27	20	4	2.00	TCHSHT
AAA026_4-6	6	4	6	12234.9	12234.9	1.36%	0.70	0.04	0.74	0.26	10	2	1.01	TCHSHT
AAA036_4-6	6	4	6	12615.1	12615.1	0.00%	0.50	0.03	0.54	0.80	35	7	1.34	TCHSHT
AAA046_4-6	6	4	6	10727.5	10727.5	0.35%	0.56	0.04	0.60	0.65	15	3	1.24	TCHSHT
AAA056_4-6	6	4	6	15596.4	15596.4	1.35%	0.51	0.05	0.56	0.24	10	2	0.80	TCHSHT
AAA066_4-6	6	4	6	12429.5	12429.5	1.14%	0.67	0.04	0.71	0.68	25	5	1.40	TCHSHT
AAA076_4-6	6	4	6	13765.9	13765.9	0.00%	0.41	0.03	0.44	0.23	15	3	0.67	TCHSHT
AAA086_4-6	6	4	6	10162.2	10162.2	2.20%	0.43	0.04	0.47	0.24	15	3	0.71	TCHSHT
AAA096_4-6	6	4	6	15045.7	15045.7	1.83%	0.54	0.04	0.58	0.64	20	4	1.22	TCHSHT
AAA0012_4-6	6	4	12	17867.8	17867.8	0.24%	2.38	0.06	2.45	1.60	30	5	4.05	TCHSHT
AAA0112_4-6	6	4	12	25189.5	25189.5	0.00%	4.38	0.06	4.44	4.29	24	4	8.73	TCHSHT
AAA0212_4-6	6	4	12	23442.9	23442.9	1.67%	2.50	0.11	2.61	2.74	30	5	5.35	TCHSHT
AAA0312_4-6	6	4	12	26337.3	26337.3	2.98%	1.96	0.08	2.04	0.88	24	4	2.92	TCHSHT
AAA0412_4-6	6	4	12	23547.9	23547.9	0.35%	2.40	0.07	2.46	2.48	18	3	4.95	TCHSHT
AAA0512_4-6	6	4	12	30501.5	30501.5	0.81%	2.57	0.08	2.65	1.28	24	4	3.93	TCHSHT
AAA0612_4-6	6	4	12	22067.5	22067.5	2.28%	2.06	0.08	2.14	1.31	18	3	3.45	TCHSHT
AAA0712_4-6	6	4	12	24500.1	24500.1	0.19%	2.05	0.08	2.14	1.55	24	4	3.69	TCHSHT
AAA0812_4-6	6	4	12	21130.5	21130.5	0.00%	2.00	0.10	2.10	1.64	30	5	3.74	TCHSHT
AAA0912_4-6	6	4	12	26116.7	26116.7	0.46%	2.61	0.05	2.67	0.83	24	4	3.50	TCHSHT
AAA0018_4-6	6	4	18	27411.2	27411.2	0.13%	10.28	0.10	10.38	3.52	32	4	13.91	TCHSHT
AAA0118_4-6	6	4	18	33454.6	33454.6	0.40%	12.21	0.15	12.36	4.13	24	3	16.49	TCHSHT
AAA0218_4-6	6	4	18	33406.5	33406.5	0.69%	8.25	0.35	8.60	8.28	48	6	16.88	TCHSHT
AAA0318_4-6	6	4	18	39031.6	39031.6	0.27%	8.34	0.13	8.47	4.00	32	4	12.47	TCHSHT
AAA0418_4-6	6	4	18	35356.7	35356.7	1.65%	13.33	0.17	13.50	9.52	48	6	23.03	TCHSHT
AAA0518_4-6	6	4	18	43556.5	43556.5	1.74%	9.12	0.09	9.21	5.84	48	6	15.05	TCHSHT
AAA0618_4-6	6	4	18	33434.5	33434.5	0.30%	6.77	0.14	6.92	5.65	48	6	12.57	TCHSHT
AAA0718_4-6	6	4	18	37233.1	37233.1	0.83%	5.72	0.11	5.83	7.95	40	5	13.78	TCHSHT
AAA0818_4-6	6	4	18	28053.5	28053.5	0.43%	6.65	0.16	6.81	2.40	32	4	9.22	TCHSHT
AAA0918_4-6	6	4	18	38491.1	38491.1	0.63%	9.26	0.09	9.36	3.33	24	3	12.69	TCHSHT
AAA006_4-12	12	4	6	20483.6	20483.6	0.27%	0.83	0.08	0.91	1.11	15	3	2.02	TCHSHT
AAA016_4-12	12	4	6	23762.3	23762.3	0.01%	1.16	0.07	1.23	9.64	25	5	10.87	TCHSHT
AAA026_4-12	12	4	6	19003.4	19003.4	0.98%	0.75	0.09	0.83	0.81	15	3	1.65	TCHSHT
AAA036_4-12	12	4	6	20884.0	20884.0	0.78%	0.92	0.04	0.96	0.62	15	3	1.58	TCHSHT
AAA046_4-12	12	4	6	23103.8	23103.8	0.21%	0.95	0.04	0.99	0.96	15	3	1.95	TCHSHT
AAA056_4-12	12	4	6	24970.0	24970.0	3.21%	0.90	0.07	0.97	1.90	20	4	2.87	TCHSHT
AAA066_4-12	12	4	6	21405.2	21405.2	1.00%	0.77	0.06	0.83	0.76	20	4	1.59	TCHSHT
AAA076_4-12	12	4	6	21776.1	21776.1	1.51%	0.99	0.05	1.04	1.73	15	3	2.77	TCHSHT
AAA086_4-12	12	4	6	22937.6	22937.6	1.14%	0.68	0.05	0.74	0.51	15	3	1.25	TCHSHT
AAA096_4-12	12	4	6	22947.5	22947.5	3.58%	0.95	0.05	1.01	3.63	20	4	4.64	TCHSHT
AAA0012_4-12	12	4	12	36599.5	36599.5	0.05%	3.96	0.16	4.12	11.33	30	5	15.46	TCHSHT
AAA0112_4-12	12	4	12	41915.6	41915.6	1.28%	6.20	0.09	6.29	24.24	24	4	30.54	TCHSHT
AAA0212_4-12	12	4	12	37606.4	37606.4	0.59%	3.24	0.08	3.32	5.16	30	5	8.48	TCHSHT
AAA0312_4-12	12	4	12	41156.7	41156.7	1.01%	3.16	0.08	3.25	4.17	18	3	7.41	TCHSHT
AAA0412_4-12	12	4	12	42881.1	42881.1	0.86%	3.83	0.08	3.91	9.12	24	4	13.03	TCHSHT
AAA0512_4-12	12	4	12	46374.6	46374.6	1.49%	4.07	0.29	4.37	1.73	18	3	6.10	TCHSHT
AAA0612_4-12	12	4	12	40474.0	40474.0	1.13%	2.63	0.06	2.70	4.78	30	5	7.48	TCHSHT
AAA0712_4-12	12	4	12	43400.2	43400.2	1.75%	3.46	0.12	3.58	32.52	24	4	36.11	TCHSHT
AAA0812_4-12	12	4	12	42128.6	42128.6	0.72%	2.36	0.11	2.47	1.48	12	2	3.96	TCHSHT
AAA0912_4-12	12	4	12	45557.9	45557.9	1.97%	3.90	0.12	4.02	24.56	24	4	28.58	TCHSHT
AAA0018_4-12	12	4	18	54897.4	54897.4	0.86%	8.25	0.18	8.43	11.35	32	4	19.78	TCHSHT
AAA0118_4-12	12	4	18	61461.2	61461.2	1.67%	12.63	0.14	12.77	53.20	40	5	65.98	TCHSHT
AAA0218_4-12	12	4	18	53913.2	53913.2	0.20%	4.90	0.16	5.06	3.85	32	4	8.91	TCHSHT
AAA0318_4-12	12	4	18	62686.5	62686.5	1.29%	8.96	0.20	9.17	13.11	32	4	22.28	TCHSHT
AAA0418_4-12	12	4	18	63480.8	63480.8	1.27%	9.65	0.17	9.82	37.07	32	4	46.89	TCHSHT
AAA0518_4-12	12	4	18	67058.2	67058.2	1.16%	10.00	0.15	10.16	33.40	48	6	43.56	TCHSHT
AAA0618_4-12	12	4	18	59799.8	59799.8	0.81%	8.95	0.12	9.07	9.21	40	5	18.28	TCHSHT
AAA0718_4-12	12	4	18	66166.9	66166.9	1.25%	10.64	0.16	10.80	52.67	32	4	63.48	TCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0818_4-12	12	4	18	63721.5	63721.5	0.45%	6.79	0.12	6.91	31.94	40	5	38.86	TCHSHT
AAA0918_4-12	12	4	18	64586.8	64586.8	1.87%	10.47	0.19	10.66	50.43	48	6	61.09	TCHSHT
AAA006_4-25	25	4	6	37935.7	37935.7	0.57%	1.55	0.07	1.63	5.37	15	3	7.00	TCHSHT
AAA016_4-25	25	4	6	46404.0	46404.0	0.57%	2.18	0.09	2.29	6.82	15	3	9.11	TCHSHT
AAA026_4-25	25	4	6	44289.5	44289.5	1.79%	2.09	0.09	2.18	13.61	15	3	15.79	TCHSHT
AAA036_4-25	25	4	6	43671.6	43671.6	1.13%	1.42	0.13	1.56	13.61	25	5	15.16	TCHSHT
AAA046_4-25	25	4	6	44748.9	44748.9	1.21%	1.81	0.21	2.02	25.89	20	4	27.92	TCHSHT
AAA056_4-25	25	4	6	48516.9	48516.9	1.08%	1.69	0.05	1.74	10.99	15	3	12.73	TCHSHT
AAA066_4-25	25	4	6	39045.3	39045.3	1.86%	1.23	0.05	1.28	4.12	20	4	5.40	TCHSHT
AAA076_4-25	25	4	6	44019.9	44019.9	0.78%	1.73	0.10	1.83	39.85	25	5	41.69	TCHSHT
AAA086_4-25	25	4	6	40585.9	40585.9	0.36%	1.97	0.07	2.04	9.61	20	4	11.65	TCHSHT
AAA096_4-25	25	4	6	46540.8	46540.8	0.50%	1.46	0.07	1.53	7.46	15	3	8.99	TCHSHT
AAA0012_4-25	25	4	12	76201.6	76201.6	1.31%	5.29	0.63	5.93	46.26	24	4	52.19	TCHSHT
AAA0112_4-25	25	4	12	84347.2	84347.2	1.17%	7.24	0.20	7.44	53.81	24	4	61.26	TCHSHT
AAA0212_4-25	25	4	12	80318.1	80318.1	1.56%	6.47	0.27	6.74	91.87	36	6	98.62	TCHSHT
AAA0312_4-25	25	4	12	84515.4	84515.4	1.13%	5.78	0.22	6.00	79.64	36	6	85.65	TCHSHT
AAA0412_4-25	25	4	12	85127.4	85127.4	1.22%	5.22	0.30	5.52	26.71	18	3	32.23	TCHSHT
AAA0512_4-25	25	4	12	87742.9	87742.9	0.54%	4.97	0.11	5.08	41.27	30	5	46.35	TCHSHT
AAA0612_4-25	25	4	12	74554.3	74554.3	0.48%	4.19	0.31	4.50	12.88	42	7	17.38	TCHSHT
AAA0712_4-25	25	4	12	84551.7	84551.7	0.78%	6.70	0.31	7.01	20.05	24	4	27.06	TCHSHT
AAA0812_4-25	25	4	12	79160.0	79160.0	0.55%	7.77	0.13	7.90	30.27	30	5	38.17	TCHSHT
AAA0912_4-25	25	4	12	84927.2	84927.2	0.04%	4.74	0.18	4.92	16.58	24	4	21.51	TCHSHT
AAA0018_4-25	25	4	18	109842.0	109842.0	0.61%	21.56	0.34	21.90	61.50	40	5	83.40	TCHSHT
AAA0118_4-25	25	4	18	122317.9	122317.9	0.97%	17.69	0.40	18.10	192.48	56	7	210.59	TCHSHT
AAA0218_4-25	25	4	18	118789.2	118789.2	1.39%	18.36	0.46	18.82	150.50	40	5	169.33	TCHSHT
AAA0318_4-25	25	4	18	122635.3	122635.3	0.76%	21.58	0.23	21.82	55.43	40	5	77.25	TCHSHT
AAA0418_4-25	25	4	18	125419.0	125419.0	1.07%	13.73	0.25	13.99	96.79	48	6	110.78	TCHSHT
AAA0518_4-25	25	4	18	127214.3	127214.3	0.82%	21.58	0.30	21.88	90.28	48	6	112.16	TCHSHT
AAA0618_4-25	25	4	18	111070.8	111070.8	0.24%	9.42	0.15	9.58	31.23	32	4	40.81	TCHSHT
AAA0718_4-25	25	4	18	123153.8	123153.8	0.54%	13.88	0.32	14.20	48.44	40	5	62.65	TCHSHT
AAA0818_4-25	25	4	18	113340.9	113340.9	0.63%	16.42	0.33	16.75	59.19	32	4	75.95	TCHSHT
AAA0918_4-25	25	4	18	125231.4	125231.4	0.46%	11.97	0.28	12.25	32.21	32	4	44.47	TCHSHT
AAA006_4-50	50	4	6	82046.4	82046.4	0.44%	2.83	0.31	3.14	13.55	15	3	16.69	TCHSHT
AAA016_4-50	50	4	6	84978.1	84978.1	0.15%	3.04	0.33	3.37	14.80	20	4	18.18	TCHSHT
AAA026_4-50	50	4	6	87404.8	87404.8	0.41%	2.98	0.14	3.12	51.49	20	4	54.62	TCHSHT
AAA036_4-50	50	4	6	88656.3	88656.3	0.80%	2.43	0.25	2.68	12.87	20	4	15.55	TCHSHT
AAA046_4-50	50	4	6	94956.4	94956.4	0.69%	3.25	0.29	3.54	36.99	25	5	40.54	TCHSHT
AAA056_4-50	50	4	6	89627.3	89627.3	0.22%	3.14	0.07	3.21	13.01	15	3	16.22	TCHSHT
AAA066_4-50	50	4	6	80283.3	80283.3	0.49%	2.17	0.32	2.50	14.30	20	4	16.80	TCHSHT
AAA076_4-50	50	4	6	84122.1	84122.1	0.60%	3.00	0.25	3.25	20.94	20	4	24.19	TCHSHT
AAA086_4-50	50	4	6	84064.7	84064.7	0.33%	2.56	0.15	2.72	31.07	25	5	33.79	TCHSHT
AAA096_4-50	50	4	6	94983.6	94983.6	0.31%	2.94	0.17	3.11	18.83	25	5	21.94	TCHSHT
AAA0012_4-50	50	4	12	160468.6	160468.6	0.46%	8.43	0.64	9.08	88.12	30	5	97.21	TCHSHT
AAA0112_4-50	50	4	12	157968.6	157968.6	0.35%	8.26	0.31	8.58	79.17	36	6	87.75	TCHSHT
AAA0212_4-50	50	4	12	159498.9	159498.9	0.48%	11.78	0.31	12.10	64.60	24	4	76.70	TCHSHT
AAA0312_4-50	50	4	12	167430.5	167430.5	0.67%	9.21	0.30	9.51	60.31	24	4	69.83	TCHSHT
AAA0412_4-50	50	4	12	171523.0	171523.0	0.32%	10.17	0.51	10.68	78.55	36	6	89.24	TCHSHT
AAA0512_4-50	50	4	12	165587.9	165587.9	0.38%	10.36	0.49	10.86	63.75	30	5	74.61	TCHSHT
AAA0612_4-50	50	4	12	150726.8	150726.8	0.21%	8.07	0.56	8.64	34.60	30	5	43.24	TCHSHT
AAA0712_4-50	50	4	12	162664.4	162664.4	0.39%	9.27	0.22	9.49	76.27	30	5	85.76	TCHSHT
AAA0812_4-50	50	4	12	157589.2	157589.2	0.26%	8.72	0.26	8.99	39.07	24	4	48.07	TCHSHT
AAA0912_4-50	50	4	12	173153.8	173153.8	0.34%	7.28	0.38	7.66	16.25	24	4	23.91	TCHSHT
AAA0018_4-50	50	4	18	229279.8	229279.8	0.47%	20.89	0.86	21.76	110.32	56	7	132.08	TCHSHT
AAA0118_4-50	50	4	18	233107.0	233107.0	0.34%	24.17	0.87	25.05	147.42	48	6	172.47	TCHSHT
AAA0218_4-50	50	4	18	238848.7	238848.7	0.36%	20.59	0.65	21.24	141.95	40	5	163.20	TCHSHT
AAA0318_4-50	50	4	18	243855.3	243855.3	0.28%	25.30	0.90	26.21	92.17	40	5	118.39	TCHSHT
AAA0418_4-50	50	4	18	254208.9	254208.9	0.44%	25.74	0.61	26.36	179.38	48	6	205.74	TCHSHT
AAA0518_4-50	50	4	18	244974.3	244974.3	0.38%	21.98	0.99	22.98	143.07	48	6	166.05	TCHSHT
AAA0618_4-50	50	4	18	224262.3	224262.3	0.08%	19.72	0.44	20.17	50.53	40	5	70.70	TCHSHT
AAA0718_4-50	50	4	18	241589.6	241589.6	0.37%	23.84	0.49	24.33	166.26	40	5	190.59	TCHSHT
AAA0818_4-50	50	4	18	228466.7	228466.7	0.30%	18.47	0.52	19.01	99.77	40	5	118.78	TCHSHT
AAA0918_4-50	50	4	18	252083.6	252083.6	0.18%	19.77	0.28	20.06	111.31	48	6	131.37	TCHSHT
AAA006_6-6	6	6	6	9705.3	9705.3	1.05%	0.97	0.04	1.01	0.56	15	3	1.57	TCHSHT
AAA016_6-6	6	6	6	13232.4	13232.4	0.82%	1.33	0.12	1.46	1.12	15	3	2.58	TCHSHT
AAA026_6-6	6	6	6	12553.0	12553.0	2.71%	0.95	0.07	1.02	0.80	20	4	1.82	TCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA036_6-6	6	6	6	13913.0	13913.0	0.00%	0.97	0.06	1.04	0.42	20	4	1.46	TCHSHT
AAA046_6-6	6	6	6	14476.2	14476.2	2.91%	1.23	0.06	1.29	0.83	15	3	2.11	TCHSHT
AAA056_6-6	6	6	6	16377.7	16377.7	0.00%	1.18	0.05	1.23	0.57	15	3	1.80	TCHSHT
AAA066_6-6	6	6	6	11931.0	11931.0	2.94%	0.65	0.04	0.69	0.75	15	3	1.44	TCHSHT
AAA076_6-6	6	6	6	15541.3	15541.3	1.23%	1.22	0.06	1.28	0.83	15	3	2.12	TCHSHT
AAA086_6-6	6	6	6	14910.4	14910.4	2.18%	1.01	0.06	1.08	0.54	15	3	1.62	TCHSHT
AAA096_6-6	6	6	6	16063.1	16063.1	0.88%	0.94	0.07	1.02	0.66	15	3	1.68	TCHSHT
AAA0012_6-6	6	6	12	19923.4	19923.4	0.32%	6.61	0.12	6.73	2.43	24	4	9.17	TCHSHT
AAA0112_6-6	6	6	12	24563.7	24563.7	1.36%	5.47	0.22	5.69	3.78	24	4	9.47	TCHSHT
AAA0212_6-6	6	6	12	24100.2	24100.2	0.08%	4.99	0.19	5.18	1.40	24	4	6.58	TCHSHT
AAA0312_6-6	6	6	12	27454.4	27454.4	0.81%	6.24	0.23	6.47	1.43	18	3	7.89	TCHSHT
AAA0412_6-6	6	6	12	26904.4	26904.4	0.10%	6.16	0.13	6.30	1.97	24	4	8.27	TCHSHT
AAA0512_6-6	6	6	12	29085.1	29085.1	1.77%	3.42	0.12	3.54	1.97	24	4	5.51	TCHSHT
AAA0612_6-6	6	6	12	23033.0	23033.0	0.82%	4.96	0.09	5.06	2.49	30	5	7.55	TCHSHT
AAA0712_6-6	6	6	12	28918.4	28918.4	0.72%	5.13	0.18	5.31	2.01	18	3	7.32	TCHSHT
AAA0812_6-6	6	6	12	26890.2	26890.2	1.13%	5.24	0.15	5.40	2.74	24	4	8.14	TCHSHT
AAA0912_6-6	6	6	12	30456.0	30456.0	1.35%	5.40	0.11	5.52	2.16	24	4	7.68	TCHSHT
AAA0018_6-6	6	6	18	29443.4	29443.4	1.27%	17.70	0.13	17.84	6.47	32	4	24.30	TCHSHT
AAA0218_6-6	6	6	18	32704.8	32704.8	0.15%	17.21	0.20	17.41	2.71	24	3	20.12	TCHSHT
AAA0318_6-6	6	6	18	38471.5	38471.5	1.01%	23.22	0.18	23.40	4.60	32	4	28.00	TCHSHT
AAA0418_6-6	6	6	18	39258.4	39258.4	0.35%	35.93	0.41	36.33	10.04	48	6	46.38	TCHSHT
AAA0518_6-6	6	6	18	44414.7	44414.7	1.57%	17.21	0.22	17.43	14.21	32	4	31.64	TCHSHT
AAA0618_6-6	6	6	18	33716.4	33716.4	0.35%	9.51	0.14	9.66	3.55	32	4	13.21	TCHSHT
AAA0718_6-6	6	6	18	42209.9	42209.9	0.65%	18.11	0.15	18.26	7.50	48	6	25.76	TCHSHT
AAA0818_6-6	6	6	18	42859.8	42859.8	1.04%	18.91	0.35	19.26	11.00	48	6	30.27	TCHSHT
AAA0918_6-6	6	6	18	46250.7	46250.7	0.78%	20.32	0.30	20.63	15.19	32	4	35.82	TCHSHT
AAA006_6-12	12	6	6	20666.3	20666.3	0.44%	1.39	0.06	1.45	0.97	15	3	2.42	TCHSHT
AAA016_6-12	12	6	6	21093.8	21093.8	1.16%	1.51	0.06	1.57	6.64	20	4	8.22	TCHSHT
AAA026_6-12	12	6	6	20000.2	20000.2	2.22%	1.29	0.10	1.39	6.02	25	5	7.41	TCHSHT
AAA036_6-12	12	6	6	20894.2	20894.2	1.69%	1.16	0.06	1.23	2.52	20	4	3.75	TCHSHT
AAA046_6-12	12	6	6	18945.0	18945.0	0.65%	1.53	0.06	1.59	0.88	15	3	2.47	TCHSHT
AAA056_6-12	12	6	6	20949.6	20949.6	3.52%	1.09	0.05	1.14	1.25	15	3	2.39	TCHSHT
AAA066_6-12	12	6	6	18677.5	18677.5	1.86%	1.18	0.07	1.26	0.66	15	3	1.92	TCHSHT
AAA076_6-12	12	6	6	24300.5	24300.5	1.35%	1.82	0.06	1.88	4.70	25	5	6.58	TCHSHT
AAA086_6-12	12	6	6	21208.2	21208.2	1.26%	1.78	0.05	1.83	1.33	20	4	3.16	TCHSHT
AAA096_6-12	12	6	6	24355.1	24355.1	1.54%	1.73	0.07	1.81	3.22	15	3	5.03	TCHSHT
AAA0012_6-12	12	6	12	38441.5	38441.5	1.39%	8.27	0.13	8.40	9.42	36	6	17.82	TCHSHT
AAA0112_6-12	12	6	12	40303.2	40303.2	0.51%	6.67	0.11	6.78	3.88	24	4	10.66	TCHSHT
AAA0212_6-12	12	6	12	38320.8	38320.8	0.99%	7.50	0.20	7.70	21.83	24	4	29.53	TCHSHT
AAA0312_6-12	12	6	12	40814.8	40814.8	0.62%	6.32	0.33	6.66	7.13	30	5	13.79	TCHSHT
AAA0412_6-12	12	6	12	36585.9	36585.9	0.72%	6.26	0.13	6.39	11.30	30	5	17.70	TCHSHT
AAA0512_6-12	12	6	12	42673.9	42673.9	1.78%	8.94	0.39	9.34	21.22	30	5	30.56	TCHSHT
AAA0612_6-12	12	6	12	34971.1	34971.1	0.47%	4.95	0.09	5.04	3.43	30	5	8.47	TCHSHT
AAA0712_6-12	12	6	12	47785.9	47785.9	1.69%	7.23	0.25	7.48	47.91	30	5	55.40	TCHSHT
AAA0812_6-12	12	6	12	39551.2	39551.2	1.27%	5.48	0.31	5.78	26.99	42	7	32.77	TCHSHT
AAA0912_6-12	12	6	12	44419.6	44419.6	0.89%	6.31	0.15	6.47	8.01	18	3	14.48	TCHSHT
AAA0018_6-12	12	6	18	57065.6	57065.6	0.81%	26.82	0.22	27.04	16.88	40	5	43.92	TCHSHT
AAA0118_6-12	12	6	18	62399.1	62399.1	0.98%	26.42	0.23	26.65	32.54	32	4	59.19	TCHSHT
AAA0218_6-12	12	6	18	56258.9	56258.9	1.25%	21.31	0.29	21.61	27.22	40	5	48.83	TCHSHT
AAA0318_6-12	12	6	18	58244.1	58244.1	0.90%	13.44	0.27	13.72	22.80	32	4	36.52	TCHSHT
AAA0418_6-12	12	6	18	53135.0	53135.0	0.55%	19.53	0.42	19.96	12.81	40	5	32.77	TCHSHT
AAA0518_6-12	12	6	18	63168.9	63168.9	0.89%	18.40	0.18	18.58	24.10	32	4	42.68	TCHSHT
AAA0618_6-12	12	6	18	54730.8	54730.8	0.48%	16.04	0.20	16.24	17.50	48	6	33.75	TCHSHT
AAA0718_6-12	12	6	18	69556.9	69556.9	2.04%	28.60	0.29	28.90	66.00	32	4	94.89	TCHSHT
AAA0818_6-12	12	6	18	58548.1	58548.1	1.64%	23.60	0.25	23.85	29.26	32	4	53.11	TCHSHT
AAA0918_6-12	12	6	18	66211.0	66211.0	1.16%	24.44	0.27	24.71	19.11	40	5	43.82	TCHSHT
AAA006_6-25	25	6	6	39865.8	39865.8	0.27%	2.58	0.19	2.77	9.65	25	5	12.42	TCHSHT
AAA016_6-25	25	6	6	40380.6	40380.6	0.90%	2.68	0.14	2.82	12.26	20	4	15.09	TCHSHT
AAA026_6-25	25	6	6	42314.5	42314.5	1.11%	2.80	0.36	3.15	36.08	25	5	39.23	TCHSHT
AAA036_6-25	25	6	6	41201.3	41201.3	0.44%	3.06	0.09	3.15	4.79	25	5	7.94	TCHSHT
AAA046_6-25	25	6	6	43783.9	43783.9	1.54%	4.02	0.25	4.27	46.97	20	4	51.25	TCHSHT
AAA056_6-25	25	6	6	40800.0	40800.0	0.79%	2.14	0.12	2.26	10.13	10	2	12.39	TCHSHT
AAA066_6-25	25	6	6	39533.9	39533.9	0.75%	2.32	0.11	2.42	37.23	20	4	39.66	TCHSHT
AAA076_6-25	25	6	6	43072.7	43072.7	0.34%	2.50	0.15	2.65	13.63	20	4	16.29	TCHSHT
AAA086_6-25	25	6	6	41620.3	41620.3	1.69%	2.44	0.40	2.84	27.95	20	4	30.80	TCHSHT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA096_6-25	25	6	6	43058.4	43058.4	1.22%	2.83	0.13	2.96	10.27	30	6	13.23	TCHSHT
AAA0012_6-25	25	6	12	77854.2	77854.2	1.45%	11.76	0.45	12.21	66.37	30	5	78.59	TCHSHT
AAA0112_6-25	25	6	12	80437.6	80437.6	1.52%	11.55	0.45	12.00	51.42	24	4	63.43	TCHSHT
AAA0212_6-25	25	6	12	81179.0	81179.0	1.53%	10.58	0.66	11.25	73.22	36	6	84.47	TCHSHT
AAA0312_6-25	25	6	12	78500.1	78500.1	1.17%	11.32	0.23	11.55	49.35	24	4	60.90	TCHSHT
AAA0412_6-25	25	6	12	81851.7	81851.7	1.23%	12.67	0.31	12.99	51.89	24	4	64.88	TCHSHT
AAA0512_6-25	25	6	12	77373.4	77373.4	0.91%	8.11	0.64	8.76	64.17	36	6	72.93	TCHSHT
AAA0612_6-25	25	6	12	74935.4	74935.4	0.90%	9.99	0.20	10.19	40.90	30	5	51.10	TCHSHT
AAA0712_6-25	25	6	12	78622.3	78622.3	0.76%	9.28	0.17	9.45	13.84	24	4	23.30	TCHSHT
AAA0812_6-25	25	6	12	76143.8	76143.8	1.06%	8.80	0.55	9.35	55.73	30	5	65.08	TCHSHT
AAA0912_6-25	25	6	12	83249.1	83249.1	1.13%	10.97	0.22	11.20	80.55	42	7	91.75	TCHSHT
AAA0018_6-25	25	6	18	112810.5	112810.5	1.31%	29.73	2.20	31.94	143.64	48	6	175.58	TCHSHT
AAA0118_6-25	25	6	18	118505.6	118505.6	1.07%	30.68	1.96	32.64	104.27	40	5	136.91	TCHSHT
AAA0218_6-25	25	6	18	121542.1	121542.1	1.22%	31.61	1.29	32.90	130.22	48	6	163.13	TCHSHT
AAA0318_6-25	25	6	18	117742.7	117742.7	1.03%	36.91	0.64	37.56	139.96	40	5	177.52	TCHSHT
AAA0418_6-25	25	6	18	121504.6	121504.6	0.90%	35.42	0.57	35.99	140.05	48	6	176.05	TCHSHT
AAA0518_6-25	25	6	18	118568.7	118568.7	0.90%	21.10	0.51	21.61	71.53	32	4	93.15	TCHSHT
AAA0618_6-25	25	6	18	109895.7	109895.7	1.01%	25.83	0.34	26.17	113.55	56	7	139.73	TCHSHT
AAA0718_6-25	25	6	18	115584.2	115584.2	0.59%	18.54	0.50	19.04	61.88	40	5	80.92	TCHSHT
AAA0818_6-25	25	6	18	110290.3	110290.3	1.51%	20.96	0.88	21.85	88.90	32	4	110.75	TCHSHT
AAA0918_6-25	25	6	18	123570.9	123570.9	1.19%	32.57	0.71	33.28	129.27	48	6	162.56	TCHSHT
AAA006_6-50	50	6	6	75030.0	75030.0	0.41%	3.50	0.38	3.89	61.54	30	6	65.43	TCHSHT
AAA016_6-50	50	6	6	77745.0	77745.0	0.72%	3.82	1.16	4.98	35.61	20	4	40.60	TCHSHT
AAA026_6-50	50	6	6	80577.6	80577.6	0.80%	3.94	0.86	4.80	49.07	20	4	54.71	TCHSHT
AAA036_6-50	50	6	6	78476.5	78476.5	0.19%	3.62	0.20	3.82	26.48	20	4	30.31	TCHSHT
AAA046_6-50	50	6	6	81236.5	81236.5	0.85%	4.07	0.40	4.48	82.35	20	4	86.82	TCHSHT
AAA056_6-50	50	6	6	81673.7	81673.7	0.51%	4.51	0.23	4.76	95.47	25	5	100.23	TCHSHT
AAA066_6-50	50	6	6	78583.0	78583.0	0.85%	4.92	0.43	5.35	70.32	25	5	75.67	TCHSHT
AAA076_6-50	50	6	6	82025.5	82025.5	0.43%	4.03	0.32	4.35	18.42	20	4	22.78	TCHSHT
AAA086_6-50	50	6	6	77190.2	77190.2	0.54%	3.63	0.33	3.97	35.10	20	4	39.07	TCHSHT
AAA096_6-50	50	6	6	78287.2	78287.2	0.72%	3.99	0.40	4.40	57.46	20	4	61.86	TCHSHT
AAA0012_6-50	50	6	12	146410.0	146410.0	0.69%	11.41	0.65	12.07	93.70	42	7	105.78	TCHSHT
AAA0112_6-50	50	6	12	149006.9	149006.9	0.50%	12.51	0.74	13.26	76.96	36	6	90.23	TCHSHT
AAA0212_6-50	50	6	12	154025.3	154025.3	0.86%	13.82	1.94	15.77	114.55	30	5	130.32	TCHSHT
AAA0312_6-50	50	6	12	152067.3	152067.3	0.47%	14.99	0.46	15.46	98.25	42	7	113.71	TCHSHT
AAA0412_6-50	50	6	12	158770.5	158770.5	0.41%	14.94	1.64	16.59	115.48	42	7	132.07	TCHSHT
AAA0512_6-50	50	6	12	157345.7	157345.7	1.31%	13.95	0.59	14.55	107.80	36	6	122.35	TCHSHT
AAA0612_6-50	50	6	12	147972.0	147972.0	0.90%	21.98	0.97	22.95	104.52	24	4	127.48	TCHSHT
AAA0712_6-50	50	6	12	156767.2	156767.2	0.27%	15.57	0.67	16.24	76.06	36	6	92.31	TCHSHT
AAA0812_6-50	50	6	12	143771.8	143771.8	0.47%	11.83	1.30	13.14	64.03	30	5	77.17	TCHSHT
AAA0912_6-50	50	6	12	151265.2	151265.2	0.60%	13.16	0.62	13.78	91.20	30	5	104.99	TCHSHT
AAA0018_6-50	50	6	18	216078.5	216078.5	0.40%	33.10	1.21	34.31	122.65	48	6	156.97	TCHSHT
AAA0118_6-50	50	6	18	218484.5	218484.5	0.47%	32.69	3.61	36.32	114.63	48	6	150.95	TCHSHT
AAA0218_6-50	50	6	18	224298.7	224298.7	0.65%	39.74	3.92	43.66	245.78	56	7	289.45	TCHSHT
AAA0318_6-50	50	6	18	225962.2	225962.2	0.47%	42.01	1.61	43.63	171.55	56	7	215.19	TCHSHT
AAA0418_6-50	50	6	18	236295.2	236295.2	0.53%	48.23	2.61	50.84	193.21	48	6	244.06	TCHSHT
AAA0518_6-50	50	6	18	225736.5	225736.5	0.62%	42.94	1.23	44.18	248.21	72	9	292.40	TCHSHT
AAA0618_6-50	50	6	18	219454.4	219454.4	0.66%	63.20	1.52	64.73	305.17	56	7	369.90	TCHSHT
AAA0718_6-50	50	6	18	230399.6	230399.6	0.44%	34.07	1.04	35.12	158.13	40	5	193.26	TCHSHT
AAA0818_6-50	50	6	18	214430.9	214430.9	0.21%	34.84	1.53	36.39	85.49	40	5	121.89	TCHSHT
AAA0918_6-50	50	6	18	224060.7	224060.7	0.35%	39.37	1.57	40.95	146.93	48	6	187.90	TCHSHT
AAB006_2-6	6	2	6	15032.2	15032.2	3.01%	0.42	0.01	0.44	0.27	15	3	0.71	TCHSLT
AAB016_2-6	6	2	6	12115.9	12115.9	1.88%	0.52	0.02	0.54	0.38	15	3	0.92	TCHSLT
AAB026_2-6	6	2	6	16179.2	16179.2	4.35%	0.30	0.01	0.32	0.20	10	2	0.52	TCHSLT
AAB046_2-6	6	2	6	19047.5	19047.5	0.63%	0.39	0.02	0.42	0.39	10	2	0.81	TCHSLT
AAB056_2-6	6	2	6	17310.9	17310.9	0.00%	0.38	0.02	0.40	0.49	20	4	0.89	TCHSLT
AAB066_2-6	6	2	6	17751.3	17751.3	1.05%	0.34	0.01	0.36	0.28	15	3	0.64	TCHSLT
AAB076_2-6	6	2	6	18549.1	18549.1	3.06%	0.40	0.02	0.42	0.40	15	3	0.82	TCHSLT
AAB086_2-6	6	2	6	13687.8	13687.8	1.24%	0.27	0.02	0.30	0.14	10	2	0.44	TCHSLT
AAB096_2-6	6	2	6	14361.6	14361.6	1.18%	0.34	0.03	0.37	0.22	10	2	0.60	TCHSLT
AAB0012_2-6	6	2	12	26001.8	26001.8	1.62%	1.16	0.04	1.21	1.38	24	4	2.58	TCHSLT
AAB0112_2-6	6	2	12	25700.3	25700.3	3.20%	1.85	0.03	1.88	1.92	24	4	3.80	TCHSLT
AAB0212_2-6	6	2	12	28243.8	28243.8	0.00%	1.16	0.02	1.18	0.51	18	3	1.70	TCHSLT
AAB0412_2-6	6	2	12	1608727860.0	1608727860.0	100.00%	1.76	0.03	1.79	2.11	36	6	3.90	TCHSLT
AAB0512_2-6	6	2	12	34328.6	34328.6	3.26%	1.60	0.03	1.63	1.31	18	3	2.94	TCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0612_2-6	6	2	12	31105.2	31105.2	1.71%	1.38	0.04	1.41	1.14	24	4	2.55	TCHSLT
AAB0712_2-6	6	2	12	28381.5	28381.5	1.49%	1.44	0.04	1.48	0.47	18	3	1.95	TCHSLT
AAB0812_2-6	6	2	12	23125.6	23125.6	1.26%	0.97	0.03	1.00	0.47	18	3	1.46	TCHSLT
AAB0912_2-6	6	2	12	717887014.0	717887017.6	100.00%	1.80	0.04	1.84	1.00	12	2	2.84	TCHSLT
AAB0018_2-6	6	2	18	34938.0	34938.0	1.06%	6.27	0.05	6.32	3.34	32	4	9.67	TCHSLT
AAB0118_2-6	6	2	18	35613.1	35613.1	1.28%	5.24	0.06	5.30	4.26	32	4	9.56	TCHSLT
AAB0218_2-6	6	2	18	41362.0	41362.0	1.51%	3.32	0.06	3.38	2.62	32	4	6.00	TCHSLT
AAB0418_2-6	6	2	18	39518.0	39518.0	2.31%	5.16	0.06	5.22	5.85	32	4	11.08	TCHSLT
AAB0518_2-6	6	2	18	44150.6	44150.6	0.47%	3.52	0.07	3.60	3.78	32	4	7.37	TCHSLT
AAB0618_2-6	6	2	18	41671.5	41671.5	1.13%	4.02	0.06	4.08	5.54	40	5	9.62	TCHSLT
AAB0718_2-6	6	2	18	40740.1	40740.1	0.40%	4.68	0.05	4.72	6.78	64	8	11.50	TCHSLT
AAB0818_2-6	6	2	18	32728.1	32728.1	0.08%	2.83	0.04	2.87	1.60	32	4	4.47	TCHSLT
AAB0918_2-6	6	2	18	37376.7	37376.7	0.07%	2.31	0.05	2.36	4.48	40	5	6.83	TCHSLT
AAB006_2-12	12	2	6	23304.7	23304.7	0.91%	0.73	0.03	0.76	0.26	10	2	1.02	TCHSLT
AAB016_2-12	12	2	6	26910.3	26910.3	0.26%	0.56	0.02	0.59	0.78	15	3	1.36	TCHSLT
AAB026_2-12	12	2	6	28670.5	28670.5	1.83%	0.69	0.02	0.72	0.77	15	3	1.49	TCHSLT
AAB036_2-12	12	2	6	30921.4	30921.4	1.67%	0.43	0.03	0.46	0.61	15	3	1.07	TCHSLT
AAB046_2-12	12	2	6	26725.3	26725.3	0.43%	0.52	0.02	0.54	0.34	10	2	0.88	TCHSLT
AAB056_2-12	12	2	6	30766.1	30766.1	0.93%	0.60	0.03	0.63	0.47	10	2	1.10	TCHSLT
AAB066_2-12	12	2	6	27762.0	27762.0	1.50%	0.54	0.03	0.57	0.77	15	3	1.34	TCHSLT
AAB076_2-12	12	2	6	27458.7	27458.7	0.90%	0.49	0.02	0.52	0.36	10	2	0.88	TCHSLT
AAB086_2-12	12	2	6	26519.4	26519.4	3.12%	0.48	0.03	0.51	0.80	20	4	1.32	TCHSLT
AAB096_2-12	12	2	6	29042.6	29042.6	0.71%	0.59	0.02	0.62	1.21	20	4	1.83	TCHSLT
AAB0012_2-12	12	2	12	43716.0	43716.0	0.48%	1.67	0.05	1.72	4.20	24	4	5.93	TCHSLT
AAB0112_2-12	12	2	12	43161.6	43161.6	0.87%	2.11	0.03	2.14	1.61	12	2	3.76	TCHSLT
AAB0212_2-12	12	2	12	46109.1	46109.1	0.96%	2.50	0.03	2.53	2.17	18	3	4.70	TCHSLT
AAB0312_2-12	12	2	12	55485.3	55485.3	2.20%	2.57	0.03	2.61	5.31	30	5	7.92	TCHSLT
AAB0412_2-12	12	2	12	46373.2	46373.2	0.81%	1.98	0.04	2.03	3.74	24	4	5.76	TCHSLT
AAB0512_2-12	12	2	12	55106.2	55106.2	2.00%	2.20	0.04	2.24	6.59	18	3	8.83	TCHSLT
AAB0612_2-12	12	2	12	47961.6	47961.6	0.60%	2.35	0.03	2.38	1.58	18	3	3.96	TCHSLT
AAB0712_2-12	12	2	12	53440.2	53440.2	0.99%	1.82	0.03	1.86	4.92	24	4	6.78	TCHSLT
AAB0812_2-12	12	2	12	43033.0	43033.0	0.89%	1.63	0.05	1.69	5.39	30	5	7.08	TCHSLT
AAB0912_2-12	12	2	12	54518.9	54518.9	2.11%	2.67	0.03	2.71	5.21	18	3	7.92	TCHSLT
AAB0118_2-12	12	2	18	64985.7	64985.7	1.34%	5.60	0.06	5.66	13.04	32	4	18.71	TCHSLT
AAB0218_2-12	12	2	18	67789.8	67789.8	1.04%	6.72	0.06	6.78	27.70	48	6	34.47	TCHSLT
AAB0318_2-12	12	2	18	78401.5	78401.5	1.93%	3.77	0.07	3.84	38.43	48	6	42.28	TCHSLT
AAB0418_2-12	12	2	18	69464.8	69464.8	1.26%	4.85	0.09	4.95	14.01	32	4	18.96	TCHSLT
AAB0518_2-12	12	2	18	76631.9	76631.9	1.84%	4.83	0.08	4.91	37.34	32	4	42.25	TCHSLT
AAB0618_2-12	12	2	18	69068.5	69068.5	0.66%	5.14	0.07	5.21	16.13	40	5	21.34	TCHSLT
AAB0718_2-12	12	2	18	69775.1	69775.1	0.52%	3.91	0.04	3.95	7.31	32	4	11.26	TCHSLT
AAB0818_2-12	12	2	18	67564.4	67564.4	1.18%	4.93	0.07	5.01	11.91	32	4	16.92	TCHSLT
AAB0918_2-12	12	2	18	76484.4	76484.4	2.07%	6.41	0.07	6.48	25.05	40	5	31.53	TCHSLT
AAB006_2-25	25	2	6	50852.7	50852.7	0.77%	1.08	0.04	1.12	2.67	25	5	3.79	TCHSLT
AAB016_2-25	25	2	6	51151.4	51151.4	0.67%	0.91	0.03	0.94	1.28	15	3	2.21	TCHSLT
AAB026_2-25	25	2	6	56054.6	56054.6	0.47%	1.10	0.04	1.14	2.33	20	4	3.47	TCHSLT
AAB036_2-25	25	2	6	56201.1	56201.1	0.28%	1.08	0.06	1.14	1.29	15	3	2.44	TCHSLT
AAB046_2-25	25	2	6	58836.9	58836.9	0.89%	1.00	0.02	1.03	2.40	20	4	3.43	TCHSLT
AAB056_2-25	25	2	6	60418.9	60418.9	0.39%	1.10	0.04	1.14	2.03	20	4	3.18	TCHSLT
AAB066_2-25	25	2	6	48455.5	48455.5	0.55%	0.85	0.02	0.87	0.63	10	2	1.50	TCHSLT
AAB076_2-25	25	2	6	54655.9	54655.9	0.27%	0.99	0.03	1.01	1.56	15	3	2.57	TCHSLT
AAB086_2-25	25	2	6	59136.4	59136.4	1.30%	1.01	0.02	1.04	5.95	20	4	6.99	TCHSLT
AAB096_2-25	25	2	6	65467.9	65467.9	1.08%	1.13	0.03	1.16	10.60	25	5	11.76	TCHSLT
AAB0012_2-25	25	2	12	92399.0	92399.0	0.67%	3.54	0.06	3.60	7.31	18	3	10.91	TCHSLT
AAB0112_2-25	25	2	12	97548.2	97548.2	0.46%	2.91	0.08	2.99	8.77	30	5	11.76	TCHSLT
AAB0212_2-25	25	2	12	95660.8	95660.8	1.06%	4.58	0.10	4.68	16.30	24	4	20.98	TCHSLT
AAB0312_2-25	25	2	12	100053.1	100053.1	1.88%	3.07	0.09	3.16	34.74	30	5	37.90	TCHSLT
AAB0412_2-25	25	2	12	99342.4	99342.4	1.44%	3.87	0.07	3.95	11.81	24	4	15.76	TCHSLT
AAB0512_2-25	25	2	12	111136.2	111136.2	0.79%	4.59	0.06	4.65	18.55	24	4	23.21	TCHSLT
AAB0612_2-25	25	2	12	94321.5	94321.5	0.79%	3.79	0.05	3.85	6.67	18	3	10.51	TCHSLT
AAB0712_2-25	25	2	12	98930.5	98930.5	1.25%	3.46	0.08	3.55	38.81	24	4	42.36	TCHSLT
AAB0812_2-25	25	2	12	103048.0	103048.0	0.73%	3.69	0.07	3.76	19.96	24	4	23.72	TCHSLT
AAB0912_2-25	25	2	12	108632.1	108632.1	0.97%	4.46	0.16	4.63	37.28	30	5	41.91	TCHSLT
AAB0018_2-25	25	2	18	132469.4	132469.4	0.68%	9.32	0.16	9.48	53.89	40	5	63.37	TCHSLT
AAB0118_2-25	25	2	18	135997.3	135997.3	0.55%	8.55	0.11	8.67	19.32	32	4	28.00	TCHSLT
AAB0218_2-25	25	2	18	134508.7	134508.7	0.77%	10.73	0.13	10.86	68.00	32	4	78.87	TCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0318_2-25	25	2	18	147625.6	147625.6	0.71%	7.55	0.11	7.66	85.28	40	5	92.94	TCHSLT
AAB0418_2-25	25	2	18	141542.9	141542.9	0.84%	8.56	0.10	8.66	38.09	40	5	46.75	TCHSLT
AAB0518_2-25	25	2	18	154633.0	154633.0	0.84%	9.72	0.13	9.85	101.47	40	5	111.33	TCHSLT
AAB0618_2-25	25	2	18	130833.4	130833.4	0.37%	7.82	0.06	7.88	28.04	32	4	35.93	TCHSLT
AAB0718_2-25	25	2	18	146111.5	146111.5	0.65%	12.89	0.09	12.98	103.39	40	5	116.37	TCHSLT
AAB0818_2-25	25	2	18	143678.9	143678.9	0.94%	11.85	0.08	11.94	136.10	40	5	148.04	TCHSLT
AAB0918_2-25	25	2	18	156159.8	156159.8	1.10%	8.73	0.10	8.83	88.70	32	4	97.53	TCHSLT
AAB006_2-50	50	2	6	99442.9	99442.9	0.23%	1.90	0.09	2.00	8.59	20	4	10.59	TCHSLT
AAB016_2-50	50	2	6	102375.1	102375.1	0.31%	1.65	0.07	1.73	8.44	25	5	10.16	TCHSLT
AAB026_2-50	50	2	6	101886.4	101886.4	0.39%	1.62	0.06	1.68	6.16	15	3	7.85	TCHSLT
AAB036_2-50	50	2	6	108813.7	108813.7	0.15%	1.74	0.07	1.81	5.83	15	3	7.64	TCHSLT
AAB046_2-50	50	2	6	116860.6	116860.6	0.72%	2.13	0.31	2.44	17.74	20	4	20.18	TCHSLT
AAB056_2-50	50	2	6	114295.7	114295.7	0.30%	1.65	0.06	1.71	4.58	20	4	6.30	TCHSLT
AAB066_2-50	50	2	6	102208.3	102208.3	0.25%	1.86	0.05	1.91	8.00	20	4	9.91	TCHSLT
AAB076_2-50	50	2	6	110694.0	110694.0	0.64%	1.94	0.05	2.00	18.82	25	5	20.81	TCHSLT
AAB086_2-50	50	2	6	104826.7	104826.7	0.11%	1.71	0.04	1.75	5.43	20	4	7.19	TCHSLT
AAB096_2-50	50	2	6	111234.2	111234.2	0.15%	1.65	0.08	1.73	4.29	25	5	6.02	TCHSLT
AAB0012_2-50	50	2	12	183152.8	183152.8	0.41%	6.01	0.15	6.16	44.91	24	4	51.08	TCHSLT
AAB0112_2-50	50	2	12	189359.5	189359.5	0.49%	5.89	0.08	5.97	27.84	30	5	33.81	TCHSLT
AAB0212_2-50	50	2	12	185280.0	185280.0	0.38%	6.39	0.16	6.55	44.07	24	4	50.63	TCHSLT
AAB0312_2-50	50	2	12	195048.9	195048.9	0.22%	5.76	0.13	5.89	30.20	30	5	36.09	TCHSLT
AAB0412_2-50	50	2	12	206485.7	206485.7	0.41%	7.78	0.12	7.91	54.53	24	4	62.44	TCHSLT
AAB0512_2-50	50	2	12	202706.5	202706.5	0.55%	5.17	0.14	5.31	34.02	24	4	39.33	TCHSLT
AAB0612_2-50	50	2	12	179995.0	179995.0	0.34%	6.08	0.13	6.21	53.41	30	5	59.62	TCHSLT
AAB0712_2-50	50	2	12	196857.3	196857.3	0.45%	6.64	0.37	7.01	104.97	30	5	111.98	TCHSLT
AAB0812_2-50	50	2	12	186514.8	186514.8	0.46%	4.82	0.14	4.97	55.40	30	5	60.37	TCHSLT
AAB0912_2-50	50	2	12	200005.7	200005.7	0.41%	7.70	0.10	7.80	48.89	24	4	56.69	TCHSLT
AAB0018_2-50	50	2	18	265160.2	265160.2	0.48%	12.49	0.22	12.72	56.21	32	4	68.93	TCHSLT
AAB0118_2-50	50	2	18	272646.9	272646.9	0.21%	15.87	0.13	16.00	136.44	56	7	152.45	TCHSLT
AAB0218_2-50	50	2	18	264971.6	264971.6	0.20%	13.12	0.20	13.32	116.74	48	6	130.07	TCHSLT
AAB0318_2-50	50	2	18	285847.5	285847.5	0.38%	12.06	0.26	12.33	119.56	40	5	131.89	TCHSLT
AAB0418_2-50	50	2	18	300470.8	300470.8	0.43%	16.11	0.18	16.30	224.35	40	5	240.65	TCHSLT
AAB0518_2-50	50	2	18	292317.4	292317.4	0.33%	12.92	0.17	13.09	128.44	40	5	141.53	TCHSLT
AAB0618_2-50	50	2	18	262289.3	262289.3	0.24%	16.93	0.16	17.09	80.81	40	5	97.90	TCHSLT
AAB0718_2-50	50	2	18	279527.4	279527.4	0.40%	17.89	0.25	18.15	204.82	40	5	222.97	TCHSLT
AAB0818_2-50	50	2	18	268210.8	268210.8	0.23%	12.66	0.22	12.89	94.22	40	5	107.11	TCHSLT
AAB0918_2-50	50	2	18	290405.4	290405.4	0.38%	15.26	0.31	15.57	144.34	32	4	159.92	TCHSLT
AAB006_4-6	6	4	6	10219.7	10219.7	2.73%	0.44	0.04	0.49	0.21	10	2	0.70	TCHSLT
AAB016_4-6	6	4	6	13740.9	13740.9	0.81%	0.77	0.07	0.84	1.39	15	3	2.23	TCHSLT
AAB026_4-6	6	4	6	12910.9	12910.9	0.08%	0.78	0.03	0.80	0.21	10	2	1.01	TCHSLT
AAB036_4-6	6	4	6	13880.9	13880.9	0.23%	0.58	0.04	0.62	0.50	15	3	1.12	TCHSLT
AAB046_4-6	6	4	6	11616.2	11616.2	1.26%	0.78	0.03	0.81	0.43	10	2	1.24	TCHSLT
AAB056_4-6	6	4	6	16828.3	16828.3	2.70%	0.55	0.04	0.59	0.57	15	3	1.17	TCHSLT
AAB066_4-6	6	4	6	13081.5	13081.5	2.18%	0.68	0.04	0.73	0.57	15	3	1.29	TCHSLT
AAB076_4-6	6	4	6	15298.1	15298.1	4.37%	0.58	0.03	0.62	0.71	15	3	1.33	TCHSLT
AAB086_4-6	6	4	6	10809.7	10809.7	2.12%	0.47	0.04	0.51	0.21	10	2	0.72	TCHSLT
AAB096_4-6	6	4	6	15320.5	15320.5	1.09%	0.53	0.05	0.58	0.28	10	2	0.86	TCHSLT
AAB0012_4-6	6	4	12	18528.2	18528.2	0.50%	3.49	0.08	3.56	1.30	24	4	4.86	TCHSLT
AAB0112_4-6	6	4	12	27088.6	27088.6	1.01%	4.18	0.10	4.28	2.09	18	3	6.37	TCHSLT
AAB0212_4-6	6	4	12	24819.1	24819.1	0.51%	3.61	0.10	3.72	1.98	18	3	5.70	TCHSLT
AAB0312_4-6	6	4	12	28080.6	28080.6	2.43%	2.72	0.09	2.81	1.10	18	3	3.91	TCHSLT
AAB0412_4-6	6	4	12	26127.5	26127.5	1.05%	2.94	0.08	3.02	8.60	24	4	11.63	TCHSLT
AAB0512_4-6	6	4	12	31945.6	31945.6	0.47%	3.65	0.06	3.71	1.20	24	4	4.92	TCHSLT
AAB0612_4-6	6	4	12	24069.6	24069.6	5.52%	2.57	0.06	2.63	2.19	24	4	4.83	TCHSLT
AAB0712_4-6	6	4	12	26056.9	26056.9	2.03%	3.02	0.05	3.08	2.07	30	5	5.14	TCHSLT
AAB0812_4-6	6	4	12	23646.9	23646.9	1.92%	2.83	0.09	2.92	1.27	24	4	4.20	TCHSLT
AAB0912_4-6	6	4	12	27612.1	27612.1	0.95%	2.99	0.07	3.07	1.24	24	4	4.31	TCHSLT
AAB0018_4-6	6	4	18	28384.8	28384.8	0.02%	7.95	0.10	8.11	4.09	40	5	12.20	TCHSLT
AAB0118_4-6	6	4	18	36079.6	36079.6	1.35%	18.04	0.17	18.21	13.54	40	5	31.75	TCHSLT
AAB0218_4-6	6	4	18	35871.2	35871.2	1.20%	10.39	0.13	10.52	12.26	40	5	22.78	TCHSLT
AAB0318_4-6	6	4	18	41650.5	41650.5	0.64%	7.58	0.10	7.69	4.20	40	5	11.89	TCHSLT
AAB0418_4-6	6	4	18	37480.4	37480.4	1.42%	16.14	0.11	16.25	6.13	32	4	22.38	TCHSLT
AAB0518_4-6	6	4	18	45117.3	45117.3	0.48%	10.15	0.16	10.32	4.41	32	4	14.73	TCHSLT
AAB0618_4-6	6	4	18	36790.3	36790.3	1.58%	8.18	0.10	8.29	7.79	40	5	16.08	TCHSLT
AAB0718_4-6	6	4	18	38869.8	38869.8	0.38%	6.82	0.12	6.94	8.86	48	6	15.80	TCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0818_4-6	6	4	18	29679.3	29679.3	1.84%	7.70	0.11	7.82	3.73	32	4	11.55	TCHSLT
AAB0918_4-6	6	4	18	39455.1	39455.1	0.11%	12.18	0.11	12.29	2.57	32	4	14.86	TCHSLT
AAB006_4-12	12	4	6	21186.6	21186.6	0.33%	0.98	0.05	1.03	1.57	20	4	2.60	TCHSLT
AAB016_4-12	12	4	6	25578.8	25578.8	2.58%	1.24	0.06	1.30	9.07	20	4	10.37	TCHSLT
AAB026_4-12	12	4	6	19787.0	19787.0	2.44%	0.71	0.06	0.77	1.85	15	3	2.63	TCHSLT
AAB036_4-12	12	4	6	22008.7	22008.7	1.28%	1.17	0.03	1.20	0.84	15	3	2.04	TCHSLT
AAB046_4-12	12	4	6	24080.9	24080.9	0.41%	1.20	0.06	1.27	1.93	15	3	3.20	TCHSLT
AAB056_4-12	12	4	6	25529.5	25529.5	0.43%	1.04	0.05	1.10	1.34	20	4	2.44	TCHSLT
AAB066_4-12	12	4	6	22200.3	22200.3	0.39%	1.04	0.07	1.12	1.53	20	4	2.64	TCHSLT
AAB076_4-12	12	4	6	23516.6	23516.6	3.70%	1.21	0.06	1.27	10.95	15	3	12.22	TCHSLT
AAB086_4-12	12	4	6	23703.1	23703.1	1.49%	0.90	0.05	0.94	2.09	20	4	3.04	TCHSLT
AAB096_4-12	12	4	6	23760.8	23760.8	1.12%	1.23	0.07	1.31	2.15	15	3	3.46	TCHSLT
AAB0012_4-12	12	4	12	37490.3	37490.3	0.16%	5.30	0.12	5.42	13.53	24	4	18.95	TCHSLT
AAB0112_4-12	12	4	12	44388.9	44388.9	2.67%	5.92	0.10	6.02	31.86	30	5	37.89	TCHSLT
AAB0212_4-12	12	4	12	38377.8	38377.8	0.81%	2.96	0.10	3.05	9.72	24	4	12.78	TCHSLT
AAB0312_4-12	12	4	12	42822.4	42822.4	2.07%	4.84	0.11	4.95	21.15	30	5	26.10	TCHSLT
AAB0412_4-12	12	4	12	43914.7	43914.7	1.15%	4.47	0.08	4.55	13.40	36	6	17.95	TCHSLT
AAB0512_4-12	12	4	12	48779.1	48779.1	2.54%	4.48	0.08	4.56	9.50	24	4	14.06	TCHSLT
AAB0612_4-12	12	4	12	42099.7	42099.7	1.87%	3.43	0.13	3.56	4.20	24	4	7.76	TCHSLT
AAB0712_4-12	12	4	12	46193.2	46193.2	2.68%	3.61	0.13	3.73	34.53	30	5	38.26	TCHSLT
AAB0812_4-12	12	4	12	43142.5	43142.5	0.84%	3.39	0.07	3.47	4.22	24	4	7.69	TCHSLT
AAB0912_4-12	12	4	12	47313.1	47313.1	2.48%	5.04	0.13	5.18	22.28	24	4	27.46	TCHSLT
AAB0018_4-12	12	4	18	56079.1	56079.1	1.20%	14.05	0.11	14.16	31.19	32	4	45.35	TCHSLT
AAB0118_4-12	12	4	18	63392.8	63392.8	1.67%	15.92	0.17	16.09	66.01	40	5	82.11	TCHSLT
AAB0218_4-12	12	4	18	54914.7	54914.7	0.58%	7.80	0.14	7.94	9.28	32	4	17.22	TCHSLT
AAB0318_4-12	12	4	18	65117.2	65117.2	2.15%	13.01	0.16	13.18	90.85	56	7	104.03	TCHSLT
AAB0418_4-12	12	4	18	65549.0	65549.0	1.75%	13.07	0.20	13.27	44.36	40	5	57.64	TCHSLT
AAB0518_4-12	12	4	18	69507.8	69507.8	1.84%	13.01	0.15	13.16	43.55	40	5	56.72	TCHSLT
AAB0618_4-12	12	4	18	61783.5	61783.5	1.58%	11.03	0.12	11.15	15.00	32	4	26.15	TCHSLT
AAB0718_4-12	12	4	18	70304.1	70304.1	2.25%	13.60	0.48	14.08	109.34	48	6	123.42	TCHSLT
AAB0818_4-12	12	4	18	64641.6	64641.6	0.00%	8.88	0.19	9.06	23.26	40	5	32.32	TCHSLT
AAB0918_4-12	12	4	18	66098.8	66098.8	1.37%	10.13	0.17	10.30	62.77	40	5	73.08	TCHSLT
AAB006_4-25	25	4	6	39108.2	39108.2	0.41%	1.84	0.11	1.95	16.97	25	5	18.92	TCHSLT
AAB016_4-25	25	4	6	48085.3	48085.3	0.95%	2.14	0.10	2.25	11.23	20	4	13.48	TCHSLT
AAB026_4-25	25	4	6	45921.7	45921.7	1.37%	2.44	0.16	2.61	40.70	25	5	43.31	TCHSLT
AAB036_4-25	25	4	6	45564.6	45564.6	0.89%	2.05	0.16	2.21	12.75	15	3	14.97	TCHSLT
AAB046_4-25	25	4	6	46528.0	46528.0	1.50%	1.96	0.09	2.05	13.75	30	6	15.80	TCHSLT
AAB056_4-25	25	4	6	50200.9	50200.9	1.07%	2.06	0.10	2.17	16.35	20	4	18.51	TCHSLT
AAB066_4-25	25	4	6	39466.7	39466.7	0.30%	1.50	0.08	1.59	4.00	15	3	5.59	TCHSLT
AAB076_4-25	25	4	6	45642.9	45642.9	0.94%	2.07	0.05	2.13	15.72	25	5	17.85	TCHSLT
AAB086_4-25	25	4	6	42073.7	42073.7	1.04%	2.25	0.10	2.35	7.13	20	4	9.49	TCHSLT
AAB096_4-25	25	4	6	47553.0	47553.0	0.40%	2.08	0.11	2.19	0.90	10	2	3.09	TCHSLT
AAB0012_4-25	25	4	12	77383.7	77383.7	1.20%	7.46	0.34	7.80	100.89	42	7	108.69	TCHSLT
AAB0112_4-25	25	4	12	86602.3	86602.3	1.53%	9.47	0.19	9.66	125.09	48	8	134.76	TCHSLT
AAB0212_4-25	25	4	12	82909.7	82909.7	1.63%	8.07	0.09	8.17	152.17	42	7	160.35	TCHSLT
AAB0312_4-25	25	4	12	85279.4	85279.4	0.53%	8.20	0.14	8.34	24.39	24	4	32.73	TCHSLT
AAB0412_4-25	25	4	12	87041.9	87041.9	1.52%	6.64	0.31	6.95	83.66	36	6	90.62	TCHSLT
AAB0512_4-25	25	4	12	90490.2	90490.2	1.61%	6.02	0.12	6.14	61.96	30	5	68.11	TCHSLT
AAB0612_4-25	25	4	12	76349.7	76349.7	1.27%	7.22	0.17	7.40	39.78	24	4	47.18	TCHSLT
AAB0712_4-25	25	4	12	86816.5	86816.5	1.68%	8.92	0.34	9.26	92.35	36	6	101.61	TCHSLT
AAB0812_4-25	25	4	12	81059.4	81059.4	1.03%	6.13	0.17	6.31	59.97	30	5	66.28	TCHSLT
AAB0912_4-25	25	4	12	86780.5	86780.5	0.96%	4.96	0.17	5.13	31.66	24	4	36.79	TCHSLT
AAB0018_4-25	25	4	18	111590.6	111590.6	0.97%	22.74	0.27	23.02	107.59	40	5	130.61	TCHSLT
AAB0118_4-25	25	4	18	125058.0	125058.0	1.44%	23.59	0.47	24.06	239.18	56	7	263.24	TCHSLT
AAB0218_4-25	25	4	18	121481.5	121481.5	1.87%	24.60	0.27	24.87	348.24	64	8	373.11	TCHSLT
AAB0318_4-25	25	4	18	124915.0	124915.0	1.20%	18.70	0.28	18.98	123.48	40	5	142.47	TCHSLT
AAB0418_4-25	25	4	18	127439.1	127439.1	1.34%	19.65	0.61	20.26	206.14	72	9	226.40	TCHSLT
AAB0518_4-25	25	4	18	129707.5	129707.5	1.08%	21.89	0.24	22.13	98.55	40	5	120.68	TCHSLT
AAB0618_4-25	25	4	18	112404.6	112404.6	0.69%	10.99	0.16	11.16	80.66	40	5	91.83	TCHSLT
AAB0718_4-25	25	4	18	125261.1	125261.1	1.13%	18.37	0.30	18.68	182.65	56	7	201.33	TCHSLT
AAB0818_4-25	25	4	18	114830.6	114830.6	0.82%	19.38	0.40	19.79	117.32	40	5	137.11	TCHSLT
AAB0918_4-25	25	4	18	127299.6	127299.6	1.13%	19.61	0.37	19.98	88.46	40	5	108.45	TCHSLT
AAB006_4-50	50	4	6	84286.9	84286.9	0.92%	2.80	0.36	3.17	34.48	20	4	37.66	TCHSLT
AAB016_4-50	50	4	6	87490.3	87490.3	0.39%	3.04	0.23	3.28	73.08	30	6	76.36	TCHSLT
AAB026_4-50	50	4	6	89540.6	89540.6	0.66%	3.26	0.20	3.46	51.36	25	5	54.82	TCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB036_4-50	50	4	6	90177.0	90177.0	0.31%	2.83	0.23	3.07	56.51	35	7	59.58	TCHSLT
AAB046_4-50	50	4	6	98065.1	98065.1	0.67%	3.51	0.17	3.69	78.14	25	5	81.84	TCHSLT
AAB056_4-50	50	4	6	92661.4	92661.4	0.68%	3.70	0.30	4.01	98.63	40	8	102.65	TCHSLT
AAB066_4-50	50	4	6	81567.6	81567.6	0.25%	2.57	0.10	2.67	32.67	25	5	35.34	TCHSLT
AAB076_4-50	50	4	6	86198.9	86198.9	0.76%	3.26	0.22	3.48	31.78	15	3	35.26	TCHSLT
AAB086_4-50	50	4	6	86014.9	86014.9	0.25%	3.01	0.16	3.17	40.68	25	5	43.85	TCHSLT
AAB096_4-50	50	4	6	96619.5	96619.5	0.34%	2.93	0.28	3.21	27.09	20	4	30.31	TCHSLT
AAB0012_4-50	50	4	12	163351.8	163351.8	0.52%	12.54	0.66	13.21	118.55	30	5	131.77	TCHSLT
AAB0112_4-50	50	4	12	160035.8	160035.8	0.53%	9.67	0.84	10.52	111.86	30	5	122.38	TCHSLT
AAB0212_4-50	50	4	12	161832.1	161832.1	0.58%	12.74	0.50	13.25	185.70	42	7	198.95	TCHSLT
AAB0312_4-50	50	4	12	169627.6	169627.6	0.66%	13.61	0.52	14.14	152.60	42	7	166.75	TCHSLT
AAB0412_4-50	50	4	12	176050.2	176050.2	0.97%	13.00	0.80	13.80	192.56	48	8	206.37	TCHSLT
AAB0512_4-50	50	4	12	169197.3	169197.3	0.89%	12.51	0.18	12.69	143.15	36	6	155.84	TCHSLT
AAB0612_4-50	50	4	12	152497.6	152497.6	0.54%	11.24	0.18	11.42	79.94	36	6	91.36	TCHSLT
AAB0712_4-50	50	4	12	165925.4	165925.4	0.70%	10.50	0.20	10.71	133.18	36	6	143.89	TCHSLT
AAB0812_4-50	50	4	12	160368.2	160368.2	0.56%	9.91	0.43	10.34	86.62	30	5	96.96	TCHSLT
AAB0912_4-50	50	4	12	174504.9	174504.9	0.35%	12.61	0.20	12.81	49.54	30	5	62.35	TCHSLT
AAB0018_4-50	50	4	18	231769.8	231769.8	0.37%	30.56	0.52	31.08	236.81	56	7	267.89	TCHSLT
AAB0118_4-50	50	4	18	235760.2	235760.2	0.60%	30.28	1.22	31.51	230.10	48	6	261.62	TCHSLT
AAB0218_4-50	50	4	18	242928.1	242928.1	0.63%	35.60	0.66	36.27	336.93	56	7	373.21	TCHSLT
AAB0318_4-50	50	4	18	246959.9	246959.9	0.58%	36.16	0.66	36.83	292.60	72	9	329.43	TCHSLT
AAB0418_4-50	50	4	18	257648.9	257648.9	0.59%	33.32	0.51	33.83	246.50	48	6	280.34	TCHSLT
AAB0518_4-50	50	4	18	248546.3	248546.3	0.62%	27.98	0.50	28.49	206.10	48	6	234.59	TCHSLT
AAB0618_4-50	50	4	18	225983.1	225983.1	0.29%	26.10	0.48	26.58	164.39	56	7	190.98	TCHSLT
AAB0718_4-50	50	4	18	245312.3	245312.3	0.62%	38.18	0.58	38.76	293.25	56	7	332.02	TCHSLT
AAB0818_4-50	50	4	18	231571.6	231571.6	0.80%	31.06	0.44	31.51	266.49	56	7	298.01	TCHSLT
AAB0918_4-50	50	4	18	254753.4	254753.4	0.48%	25.31	0.73	26.04	152.71	40	5	178.75	TCHSLT
AAB006_6-6	6	6	6	10290.5	10290.5	0.00%	1.04	0.05	1.08	0.88	25	5	1.96	TCHSLT
AAB026_6-6	6	6	6	13547.1	13547.1	0.96%	1.14	0.11	1.25	1.31	25	5	2.57	TCHSLT
AAB036_6-6	6	6	6	15365.4	15365.4	3.22%	1.00	0.05	1.05	0.30	10	2	1.36	TCHSLT
AAB046_6-6	6	6	6	15038.8	15038.8	1.86%	1.21	0.04	1.25	0.77	15	3	2.03	TCHSLT
AAB056_6-6	6	6	6	18532.8	18532.8	2.43%	1.08	0.06	1.14	1.11	20	4	2.25	TCHSLT
AAB066_6-6	6	6	6	12674.4	12674.4	2.36%	0.70	0.07	0.77	0.83	15	3	1.60	TCHSLT
AAB076_6-6	6	6	6	17008.0	17008.0	2.27%	1.32	0.07	1.39	0.74	10	2	2.14	TCHSLT
AAB086_6-6	6	6	6	16924.5	16924.5	3.58%	1.49	0.12	1.61	1.43	15	3	3.04	TCHSLT
AAB096_6-6	6	6	6	18145.7	18145.7	1.13%	1.20	0.09	1.29	2.21	20	4	3.50	TCHSLT
AAB0012_6-6	6	6	12	21425.1	21425.1	0.94%	7.60	0.12	7.72	3.02	30	5	10.74	TCHSLT
AAB0212_6-6	6	6	12	26180.5	26180.5	0.29%	7.33	0.19	7.52	1.95	18	3	9.48	TCHSLT
AAB0312_6-6	6	6	12	29031.6	29031.6	0.05%	7.40	0.11	7.51	2.18	30	5	9.69	TCHSLT
AAB0412_6-6	6	6	12	29514.4	29514.4	1.10%	7.49	0.26	7.75	4.99	30	5	12.74	TCHSLT
AAB0512_6-6	6	6	12	31955.8	31955.8	1.17%	4.15	0.20	4.36	2.58	24	4	6.94	TCHSLT
AAB0612_6-6	6	6	12	25959.6	25959.6	1.46%	5.67	0.11	5.79	4.58	24	4	10.37	TCHSLT
AAB0712_6-6	6	6	12	31289.1	31289.1	2.09%	7.95	0.10	8.05	6.71	24	4	14.77	TCHSLT
AAB0812_6-6	6	6	12	30469.0	30469.0	2.14%	6.24	0.23	6.47	5.80	30	5	12.27	TCHSLT
AAB0912_6-6	6	6	12	34330.4	34330.4	1.34%	6.43	0.23	6.66	2.34	24	4	9.00	TCHSLT
AAB0018_6-6	6	6	18	31237.8	31237.8	0.71%	28.13	0.18	28.31	11.00	56	7	39.32	TCHSLT
AAB0218_6-6	6	6	18	35283.8	35283.8	0.44%	22.77	0.41	23.19	5.22	32	4	28.42	TCHSLT
AAB0318_6-6	6	6	18	41316.0	41316.0	0.61%	27.61	0.30	27.91	6.41	32	4	34.33	TCHSLT
AAB0418_6-6	6	6	18	43082.0	43082.0	0.53%	44.60	0.30	44.90	20.95	48	6	65.86	TCHSLT
AAB0518_6-6	6	6	18	48545.0	48545.0	1.26%	17.96	0.20	18.16	22.68	48	6	40.84	TCHSLT
AAB0618_6-6	6	6	18	35986.9	35986.9	0.00%	13.47	0.17	13.63	4.41	32	4	18.04	TCHSLT
AAB0718_6-6	6	6	18	45504.1	45504.1	0.68%	25.12	0.23	25.35	9.00	32	4	34.35	TCHSLT
AAB0818_6-6	6	6	18	47580.2	47580.2	1.39%	23.32	0.35	23.67	16.47	32	4	40.14	TCHSLT
AAB0918_6-6	6	6	18	51275.4	51275.4	0.34%	23.68	0.27	23.95	19.98	40	5	43.93	TCHSLT
AAB006_6-12	12	6	6	21549.1	21549.1	1.48%	1.72	0.06	1.77	5.02	20	4	6.79	TCHSLT
AAB016_6-12	12	6	6	22089.2	22089.2	0.00%	1.84	0.14	1.98	5.18	30	6	7.15	TCHSLT
AAB026_6-12	12	6	6	21347.0	21347.0	1.34%	2.09	0.08	2.17	8.83	15	3	11.00	TCHSLT
AAB036_6-12	12	6	6	21794.6	21794.6	0.70%	1.64	0.11	1.75	1.89	20	4	3.64	TCHSLT
AAB046_6-12	12	6	6	19725.9	19725.9	0.24%	1.73	0.17	1.90	1.90	20	4	3.79	TCHSLT
AAB056_6-12	12	6	6	21514.9	21514.9	0.86%	1.52	0.06	1.59	4.62	30	6	6.20	TCHSLT
AAB066_6-12	12	6	6	19176.2	19176.2	1.65%	1.26	0.10	1.37	1.49	20	4	2.86	TCHSLT
AAB076_6-12	12	6	6	25888.8	25888.8	2.41%	2.15	0.06	2.21	7.31	20	4	9.52	TCHSLT
AAB086_6-12	12	6	6	22304.9	22304.9	1.03%	2.25	0.14	2.39	5.02	30	6	7.42	TCHSLT
AAB096_6-12	12	6	6	25677.1	25677.1	1.41%	2.17	0.10	2.27	4.88	25	5	7.15	TCHSLT
AAB0012_6-12	12	6	12	39605.7	39605.7	1.46%	9.61	0.16	9.77	10.91	24	4	20.69	TCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0112_6-12	12	6	12	41987.3	41987.3	0.65%	7.62	0.16	7.79	16.77	30	5	24.56	TCHSLT
AAB0212_6-12	12	6	12	41154.4	41154.4	3.01%	8.15	0.16	8.32	64.29	36	6	72.61	TCHSLT
AAB0312_6-12	12	6	12	43453.4	43453.4	1.55%	7.38	0.28	7.67	21.80	24	4	29.46	TCHSLT
AAB0412_6-12	12	6	12	38350.3	38350.3	1.63%	7.62	0.24	7.86	44.86	30	5	52.73	TCHSLT
AAB0512_6-12	12	6	12	44475.3	44475.3	1.43%	7.98	0.23	8.21	8.24	24	4	16.45	TCHSLT
AAB0612_6-12	12	6	12	36354.7	36354.7	1.20%	7.12	0.19	7.31	5.70	30	5	13.01	TCHSLT
AAB0712_6-12	12	6	12	51193.3	51193.3	1.71%	9.30	0.29	9.59	39.90	24	4	49.49	TCHSLT
AAB0812_6-12	12	6	12	42754.8	42754.8	2.26%	7.79	0.61	8.41	26.61	30	5	35.02	TCHSLT
AAB0912_6-12	12	6	12	46264.7	46264.7	1.61%	9.23	0.34	9.58	19.22	24	4	28.80	TCHSLT
AAB0018_6-12	12	6	18	59163.3	59163.3	1.29%	37.13	0.24	37.37	33.16	48	6	70.54	TCHSLT
AAB0118_6-12	12	6	18	64725.6	64725.6	1.27%	59.36	0.30	59.67	26.09	40	5	85.76	TCHSLT
AAB0218_6-12	12	6	18	59363.4	59363.4	1.93%	31.13	0.67	31.80	74.92	40	5	106.72	TCHSLT
AAB0318_6-12	12	6	18	60851.0	60851.0	1.53%	21.83	0.37	22.21	57.57	40	5	79.79	TCHSLT
AAB0418_6-12	12	6	18	54615.0	54615.0	0.73%	18.43	0.27	18.70	25.72	32	4	44.43	TCHSLT
AAB0518_6-12	12	6	18	66471.9	66471.9	1.73%	30.93	0.31	31.24	48.91	40	5	80.15	TCHSLT
AAB0618_6-12	12	6	18	56558.8	56558.8	1.05%	18.28	0.23	18.52	19.55	32	4	38.07	TCHSLT
AAB0718_6-12	12	6	18	73645.2	73645.2	2.03%	32.82	0.54	33.36	105.11	40	5	138.48	TCHSLT
AAB0818_6-12	12	6	18	62120.4	62120.4	2.17%	22.67	0.60	23.27	65.66	40	5	88.93	TCHSLT
AAB0918_6-12	12	6	18	68056.5	68056.5	1.19%	27.75	0.37	28.13	34.78	40	5	62.91	TCHSLT
AAB006_6-25	25	6	6	42189.7	42189.7	1.95%	3.04	0.21	3.25	39.64	20	4	42.89	TCHSLT
AAB016_6-25	25	6	6	41775.6	41775.6	1.53%	2.88	0.75	3.64	54.04	30	6	57.68	TCHSLT
AAB026_6-25	25	6	6	44021.6	44021.6	1.67%	3.40	0.25	3.65	23.46	25	5	27.11	TCHSLT
AAB036_6-25	25	6	6	42727.2	42727.2	1.04%	3.85	0.15	4.00	29.15	20	4	33.15	TCHSLT
AAB046_6-25	25	6	6	45623.9	45623.9	1.52%	3.94	0.18	4.12	47.45	20	4	51.57	TCHSLT
AAB056_6-25	25	6	6	42767.0	42767.0	2.37%	2.64	0.22	2.87	33.19	20	4	36.06	TCHSLT
AAB066_6-25	25	6	6	40848.0	40848.0	0.89%	3.47	0.20	3.68	39.24	35	7	42.92	TCHSLT
AAB076_6-25	25	6	6	44545.4	44545.4	1.19%	2.30	0.09	2.40	32.93	25	5	35.33	TCHSLT
AAB086_6-25	25	6	6	43801.5	43801.5	2.40%	2.86	0.30	3.16	41.71	20	4	44.88	TCHSLT
AAB096_6-25	25	6	6	44826.5	44826.5	2.44%	2.75	0.13	2.88	36.32	20	4	39.20	TCHSLT
AAB0012_6-25	25	6	12	79985.8	79985.8	1.91%	14.96	0.39	15.35	82.81	30	5	98.17	TCHSLT
AAB0112_6-25	25	6	12	83107.2	83107.2	2.23%	11.60	0.59	12.19	120.10	42	7	132.30	TCHSLT
AAB0212_6-25	25	6	12	83013.5	83013.5	1.90%	15.02	0.19	15.22	92.34	30	5	107.57	TCHSLT
AAB0312_6-25	25	6	12	80773.3	80773.3	1.66%	16.16	0.30	16.47	188.03	54	9	204.51	TCHSLT
AAB0412_6-25	25	6	12	85214.4	85214.4	2.85%	15.73	0.60	16.34	171.12	42	7	187.46	TCHSLT
AAB0512_6-25	25	6	12	79541.2	79541.2	1.44%	12.22	0.28	12.50	57.52	24	4	70.02	TCHSLT
AAB0612_6-25	25	6	12	77838.1	77838.1	2.21%	12.10	0.27	12.37	105.59	30	5	117.96	TCHSLT
AAB0712_6-25	25	6	12	80012.6	80012.6	1.10%	11.99	0.16	12.15	54.33	30	5	66.49	TCHSLT
AAB0812_6-25	25	6	12	79740.0	79740.0	2.48%	11.16	0.38	11.55	62.79	24	4	74.34	TCHSLT
AAB0912_6-25	25	6	12	86188.7	86188.7	2.09%	11.81	0.40	12.22	105.20	36	6	117.42	TCHSLT
AAB0018_6-25	25	6	18	115846.1	115846.1	1.55%	35.94	1.78	37.72	321.88	72	9	359.61	TCHSLT
AAB0118_6-25	25	6	18	121164.9	121164.9	1.48%	35.58	1.26	36.85	161.97	32	4	198.82	TCHSLT
AAB0218_6-25	25	6	18	124692.4	124692.4	1.96%	53.71	1.61	55.32	175.68	40	5	231.01	TCHSLT
AAB0318_6-25	25	6	18	120806.8	120806.8	1.78%	55.66	0.76	56.43	317.34	48	6	373.78	TCHSLT
AAB0418_6-25	25	6	18	126283.4	126283.4	2.56%	44.06	0.72	44.79	346.71	64	8	391.51	TCHSLT
AAB0518_6-25	25	6	18	121228.4	121228.4	1.53%	34.51	0.70	35.21	232.46	72	9	267.67	TCHSLT
AAB0618_6-25	25	6	18	112805.9	112805.9	1.47%	35.92	1.16	37.09	226.21	56	7	263.31	TCHSLT
AAB0718_6-25	25	6	18	118127.0	118127.0	1.29%	30.38	0.51	30.90	162.98	48	6	193.88	TCHSLT
AAB0818_6-25	25	6	18	113908.2	113908.2	1.91%	27.68	0.63	28.32	145.29	48	6	173.62	TCHSLT
AAB0918_6-25	25	6	18	126819.7	126819.7	1.75%	45.00	0.45	45.46	261.84	56	7	307.30	TCHSLT
AAB006_6-50	50	6	6	76887.2	76887.2	0.55%	5.32	0.36	5.69	52.89	25	5	58.58	TCHSLT
AAB016_6-50	50	6	6	80847.0	80847.0	1.26%	4.60	0.75	5.36	113.48	30	6	118.84	TCHSLT
AAB026_6-50	50	6	6	83525.2	83525.2	1.14%	5.62	0.79	6.42	110.46	30	6	116.88	TCHSLT
AAB036_6-50	50	6	6	81294.7	81294.7	1.37%	4.86	0.68	5.55	43.81	20	4	49.37	TCHSLT
AAB046_6-50	50	6	6	84795.6	84795.6	1.56%	5.52	0.41	5.93	90.20	20	4	96.14	TCHSLT
AAB056_6-50	50	6	6	84774.6	84774.6	0.84%	5.20	1.04	6.25	139.14	30	6	145.39	TCHSLT
AAB066_6-50	50	6	6	81075.2	81075.2	0.71%	6.77	0.91	7.68	155.11	35	7	162.80	TCHSLT
AAB076_6-50	50	6	6	83681.0	83681.0	0.68%	4.65	0.69	5.35	56.31	20	4	61.66	TCHSLT
AAB086_6-50	50	6	6	80413.7	80413.7	1.32%	4.59	0.60	5.19	65.02	25	5	70.21	TCHSLT
AAB096_6-50	50	6	6	81271.3	81271.3	1.43%	5.11	0.69	5.81	90.19	20	4	96.00	TCHSLT
AAB0012_6-50	50	6	12	149399.6	149399.6	1.11%	17.21	0.87	18.09	102.66	30	5	120.75	TCHSLT
AAB0112_6-50	50	6	12	151964.0	151964.0	0.98%	17.25	2.36	19.61	130.06	36	6	149.68	TCHSLT
AAB0212_6-50	50	6	12	157437.4	157437.4	1.29%	19.43	1.10	20.53	150.17	30	5	170.70	TCHSLT
AAB0312_6-50	50	6	12	155070.1	155070.1	0.91%	21.25	0.45	21.71	177.36	48	8	199.08	TCHSLT
AAB0412_6-50	50	6	12	163509.3	163509.3	1.45%	22.59	1.05	23.65	200.44	36	6	224.10	TCHSLT
AAB0512_6-50	50	6	12	160991.4	160991.4	1.16%	23.37	0.52	23.89	136.54	30	5	160.44	TCHSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0612_6-50	50	6	12	151929.6	151929.6	1.24%	21.33	2.31	23.65	240.24	42	7	263.90	TCHSLT
AAB0712_6-50	50	6	12	158635.4	158635.4	0.52%	16.48	0.63	17.12	114.88	36	6	132.00	TCHSLT
AAB0812_6-50	50	6	12	146182.8	146182.8	0.68%	17.25	1.38	18.63	171.76	54	9	190.40	TCHSLT
AAB0912_6-50	50	6	12	154993.1	154993.1	1.16%	18.78	0.58	19.36	254.42	48	8	273.80	TCHSLT
AAB0018_6-50	50	6	18	219547.6	219547.6	0.88%	48.20	1.28	49.49	259.01	56	7	308.51	TCHSLT
AAB0118_6-50	50	6	18	223181.2	223181.2	1.13%	52.28	1.98	54.27	229.33	48	6	283.60	TCHSLT
AAB0218_6-50	50	6	18	228404.9	228404.9	0.93%	50.27	3.51	53.79	452.62	80	10	506.42	TCHSLT
AAB0318_6-50	50	6	18	229092.9	229198.4	0.78%	57.73	2.66	60.40	600.03	77	10	660.43	TCHSLT
AAB0418_6-50	50	6	18	241763.6	241763.6	1.26%	62.87	2.19	65.07	452.21	56	7	517.28	TCHSLT
AAB0518_6-50	50	6	18	230530.8	230530.8	1.00%	59.97	0.92	60.90	308.88	56	7	369.84	TCHSLT
AAB0618_6-50	50	6	18	224175.7	224739.7	1.16%	68.75	1.05	69.82	600.03	67	9	669.86	TCHSLT
AAB0718_6-50	50	6	18	232303.1	232303.1	0.52%	44.91	0.78	45.69	288.73	56	7	334.43	TCHSLT
AAB0818_6-50	50	6	18	218886.2	218886.2	0.89%	45.70	2.46	48.18	282.12	48	6	330.30	TCHSLT
AAB0918_6-50	50	6	18	228134.6	228134.6	1.11%	61.49	0.64	62.13	393.23	56	7	455.37	TCHSLT
ABA006_2-6	6	2	6	8175.8	8175.8	0.02%	0.37	0.02	0.39	0.89	30	6	1.28	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%	0.30	0.02	0.32	0.12	10	2	0.44	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%	0.29	0.03	0.32	0.13	10	2	0.46	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%	0.30	0.02	0.32	0.18	15	3	0.50	TCLSHT
ABA046_2-6	6	2	6	7917.3	7917.3	0.00%	0.32	0.02	0.35	0.27	10	2	0.62	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%	0.21	0.02	0.23	0.15	15	3	0.38	TCLSHT
ABA066_2-6	6	2	6	8054.2	8054.2	0.00%	0.23	0.02	0.25	0.31	20	4	0.56	TCLSHT
ABA076_2-6	6	2	6	9140.0	9140.0	0.12%	0.30	0.02	0.32	0.28	15	3	0.60	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%	0.30	0.01	0.31	0.12	10	2	0.43	TCLSHT
ABA096_2-6	6	2	6	7120.6	7120.6	0.23%	0.26	0.01	0.27	0.11	15	3	0.39	TCLSHT
ABA0012_2-6	6	2	12	15609.4	15609.4	0.07%	1.00	0.02	1.03	1.17	18	3	2.20	TCLSHT
ABA0112_2-6	6	2	12	13419.7	13419.7	0.00%	0.95	0.02	0.98	0.37	12	2	1.34	TCLSHT
ABA0212_2-6	6	2	12	14728.6	14728.6	0.03%	1.21	0.03	1.24	1.58	30	5	2.82	TCLSHT
ABA0412_2-6	6	2	12	13871.4	13871.4	0.28%	2.04	0.03	2.07	2.11	24	4	4.18	TCLSHT
ABA0512_2-6	6	2	12	17403.2	17403.2	0.02%	0.67	0.03	0.70	0.52	18	3	1.22	TCLSHT
ABA0612_2-6	6	2	12	14949.4	14949.4	0.03%	0.62	0.04	0.66	0.56	18	3	1.22	TCLSHT
ABA0712_2-6	6	2	12	16617.9	16617.9	0.00%	1.17	0.04	1.21	0.68	24	4	1.89	TCLSHT
ABA0812_2-6	6	2	12	14158.1	14158.1	0.00%	0.99	0.03	1.02	0.63	18	3	1.64	TCLSHT
ABA0912_2-6	6	2	12	16131.1	16131.1	0.04%	0.59	0.02	0.62	0.28	12	2	0.90	TCLSHT
ABA0018_2-6	6	2	18	21818.7	21818.7	0.32%	3.41	0.03	3.44	6.68	40	5	10.13	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%	2.16	0.04	2.20	0.66	24	3	2.86	TCLSHT
ABA0218_2-6	6	2	18	22474.3	22474.3	0.02%	2.53	0.04	2.57	1.40	24	3	3.97	TCLSHT
ABA0418_2-6	6	2	18	20233.6	20233.6	0.29%	4.25	0.03	4.29	3.01	24	3	7.30	TCLSHT
ABA0518_2-6	6	2	18	25067.0	25067.0	0.05%	1.56	0.04	1.60	0.84	16	2	2.44	TCLSHT
ABA0618_2-6	6	2	18	22805.2	22805.2	0.00%	2.35	0.03	2.38	1.75	32	4	4.14	TCLSHT
ABA0718_2-6	6	2	18	24393.0	24393.0	0.08%	4.05	0.03	4.08	1.74	16	2	5.82	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%	2.30	0.04	2.34	2.24	32	4	4.58	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%	2.21	0.04	2.25	0.93	24	3	3.18	TCLSHT
ABA006_2-12	12	2	6	12675.6	12675.6	0.00%	0.37	0.03	0.40	0.26	15	3	0.66	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%	0.47	0.02	0.50	0.26	10	2	0.76	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%	0.50	0.02	0.52	0.24	15	3	0.76	TCLSHT
ABA036_2-12	12	2	6	16367.5	16367.5	0.16%	0.44	0.03	0.47	0.30	15	3	0.77	TCLSHT
ABA046_2-12	12	2	6	14225.0	14225.0	0.17%	0.48	0.02	0.50	0.16	10	2	0.66	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%	0.38	0.02	0.41	0.28	10	2	0.69	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%	0.38	0.02	0.40	0.30	15	3	0.70	TCLSHT
ABA076_2-12	12	2	6	15431.8	15431.8	0.18%	0.36	0.02	0.38	0.19	10	2	0.57	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%	0.40	0.03	0.43	0.39	15	3	0.82	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%	0.57	0.02	0.59	0.51	15	3	1.10	TCLSHT
ABA0012_2-12	12	2	12	26214.9	26214.9	0.06%	0.86	0.03	0.89	0.49	18	3	1.38	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%	1.28	0.05	1.33	0.67	18	3	2.00	TCLSHT
ABA0212_2-12	12	2	12	27216.0	27216.0	0.10%	1.87	0.03	1.90	1.24	18	3	3.14	TCLSHT
ABA0312_2-12	12	2	12	31747.1	31747.1	0.03%	1.59	0.04	1.63	0.90	24	4	2.53	TCLSHT
ABA0412_2-12	12	2	12	28318.1	28318.1	0.02%	1.58	0.03	1.61	1.30	24	4	2.92	TCLSHT
ABA0512_2-12	12	2	12	32081.3	32081.3	0.00%	1.22	0.04	1.26	0.67	18	3	1.93	TCLSHT
ABA0612_2-12	12	2	12	27236.8	27236.8	0.00%	1.06	0.04	1.10	0.57	18	3	1.67	TCLSHT
ABA0712_2-12	12	2	12	30388.6	30388.6	0.01%	1.22	0.03	1.25	0.99	18	3	2.24	TCLSHT
ABA0812_2-12	12	2	12	26719.5	26719.5	0.17%	1.48	0.05	1.53	0.92	18	3	2.45	TCLSHT
ABA0912_2-12	12	2	12	31128.7	31128.7	0.24%	2.41	0.05	2.46	3.33	24	4	5.80	TCLSHT
ABA0118_2-12	12	2	18	40448.3	40448.3	0.00%	4.08	0.05	4.14	3.26	32	4	7.40	TCLSHT
ABA0218_2-12	12	2	18	41719.4	41719.4	0.06%	5.52	0.06	5.59	5.80	32	4	11.38	TCLSHT
ABA0318_2-12	12	2	18	46273.3	46273.3	0.04%	4.24	0.05	4.30	1.94	16	2	6.23	TCLSHT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0418_2-12	12	2	18	44175.1	44175.1	0.01%	2.63	0.05	2.68	4.28	40	5	6.96	TCLSHT
ABA0518_2-12	12	2	18	47321.1	47321.1	0.00%	2.64	0.08	2.72	1.75	16	2	4.47	TCLSHT
ABA0618_2-12	12	2	18	40648.3	40648.3	0.06%	3.69	0.06	3.74	2.32	24	3	6.06	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%	2.31	0.05	2.36	2.58	32	4	4.94	TCLSHT
ABA0818_2-12	12	2	18	41330.2	41330.2	0.03%	3.35	0.04	3.40	5.45	40	5	8.85	TCLSHT
ABA0918_2-12	12	2	18	47360.7	47360.7	0.25%	4.99	0.04	5.04	18.87	32	4	23.91	TCLSHT
ABA006_2-25	25	2	6	29195.4	29195.4	0.01%	0.55	0.02	0.57	0.48	15	3	1.05	TCLSHT
ABA016_2-25	25	2	6	29911.2	29911.2	0.07%	0.99	0.02	1.02	0.97	20	4	1.99	TCLSHT
ABA026_2-25	25	2	6	28592.1	28592.1	0.05%	0.93	0.02	0.95	0.74	10	2	1.69	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%	0.68	0.04	0.72	0.34	10	2	1.07	TCLSHT
ABA046_2-25	25	2	6	31445.3	31445.3	0.11%	1.07	0.05	1.12	0.63	10	2	1.75	TCLSHT
ABA056_2-25	25	2	6	31535.0	31535.0	0.08%	0.96	0.04	1.00	1.15	15	3	2.14	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%	0.47	0.02	0.49	0.28	15	3	0.77	TCLSHT
ABA076_2-25	25	2	6	31332.2	31332.2	0.05%	0.81	0.04	0.84	0.71	10	2	1.56	TCLSHT
ABA086_2-25	25	2	6	32154.5	32154.5	0.01%	0.81	0.06	0.87	0.93	15	3	1.81	TCLSHT
ABA096_2-25	25	2	6	33235.3	33235.3	0.05%	0.90	0.04	0.93	0.59	10	2	1.53	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%	1.76	0.05	1.81	2.63	24	4	4.45	TCLSHT
ABA0112_2-25	25	2	12	60945.5	60945.5	0.03%	2.09	0.06	2.15	2.66	18	3	4.81	TCLSHT
ABA0212_2-25	25	2	12	56236.4	56236.4	0.01%	3.21	0.05	3.26	1.98	18	3	5.24	TCLSHT
ABA0312_2-25	25	2	12	59200.8	59200.8	0.02%	2.39	0.04	2.43	4.53	24	4	6.96	TCLSHT
ABA0412_2-25	25	2	12	59677.1	59677.1	0.00%	2.50	0.05	2.55	1.97	18	3	4.53	TCLSHT
ABA0512_2-25	25	2	12	65026.6	65026.6	0.08%	3.36	0.06	3.42	6.33	18	3	9.75	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%	0.87	0.04	0.92	0.54	12	2	1.46	TCLSHT
ABA0712_2-25	25	2	12	62812.6	62812.6	0.09%	2.97	0.05	3.02	3.70	18	3	6.72	TCLSHT
ABA0812_2-25	25	2	12	62889.5	62889.5	0.03%	3.05	0.07	3.12	7.55	30	5	10.67	TCLSHT
ABA0912_2-25	25	2	12	63992.2	63992.2	0.02%	2.61	0.04	2.66	3.53	24	4	6.19	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%	2.72	0.10	2.82	1.52	24	3	4.35	TCLSHT
ABA0118_2-25	25	2	18	88585.5	88585.5	0.00%	4.66	0.11	4.77	6.17	24	3	10.94	TCLSHT
ABA0218_2-25	25	2	18	83264.9	83264.9	0.04%	5.99	0.10	6.09	10.35	32	4	16.44	TCLSHT
ABA0318_2-25	25	2	18	91361.1	91361.1	0.03%	3.84	0.11	3.95	11.70	24	3	15.65	TCLSHT
ABA0418_2-25	25	2	18	90599.0	90599.0	0.01%	5.78	0.07	5.85	6.21	24	3	12.06	TCLSHT
ABA0518_2-25	25	2	18	95140.1	95140.1	0.13%	7.20	0.08	7.28	34.98	24	3	42.26	TCLSHT
ABA0618_2-25	25	2	18	83544.5	83544.5	0.00%	1.91	0.10	2.01	2.07	24	3	4.08	TCLSHT
ABA0718_2-25	25	2	18	92162.0	92162.0	0.02%	7.65	0.08	7.73	8.11	32	4	15.84	TCLSHT
ABA0818_2-25	25	2	18	91529.7	91529.7	0.07%	6.62	0.07	6.70	29.75	24	3	36.45	TCLSHT
ABA0918_2-25	25	2	18	93150.7	93150.7	0.01%	4.61	0.15	4.76	8.99	40	5	13.75	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%	1.08	0.03	1.11	0.90	15	3	2.01	TCLSHT
ABA016_2-50	50	2	6	60305.6	60305.6	0.01%	1.13	0.04	1.18	0.81	15	3	1.99	TCLSHT
ABA026_2-50	50	2	6	56156.5	56156.5	0.03%	1.71	0.03	1.74	3.07	15	3	4.81	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%	1.30	0.03	1.33	1.67	20	4	3.01	TCLSHT
ABA046_2-50	50	2	6	60896.5	60896.5	0.02%	1.61	0.06	1.67	2.62	20	4	4.29	TCLSHT
ABA056_2-50	50	2	6	59359.7	59359.7	0.02%	1.33	0.04	1.37	1.40	20	4	2.78	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%	1.32	0.07	1.38	1.24	15	3	2.63	TCLSHT
ABA076_2-50	50	2	6	58958.3	58958.3	0.00%	1.40	0.08	1.49	1.48	15	3	2.97	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%	1.40	0.04	1.44	1.29	15	3	2.74	TCLSHT
ABA096_2-50	50	2	6	60669.3	60669.3	0.01%	1.36	0.03	1.40	1.25	15	3	2.65	TCLSHT
ABA0012_2-50	50	2	12	117327.6	117327.6	0.01%	2.29	0.15	2.45	4.79	24	4	7.24	TCLSHT
ABA0112_2-50	50	2	12	119907.3	119907.3	0.02%	3.52	0.10	3.62	3.77	24	4	7.40	TCLSHT
ABA0212_2-50	50	2	12	114057.6	114057.6	0.00%	4.42	0.09	4.51	5.06	18	3	9.57	TCLSHT
ABA0312_2-50	50	2	12	119943.8	119943.8	0.01%	4.53	0.30	4.84	5.91	18	3	10.75	TCLSHT
ABA0412_2-50	50	2	12	122249.5	122249.5	0.03%	5.18	0.08	5.26	6.75	12	2	12.01	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%	2.56	0.11	2.67	1.62	12	2	4.28	TCLSHT
ABA0612_2-50	50	2	12	113644.9	113644.9	0.01%	2.76	0.15	2.91	2.24	18	3	5.15	TCLSHT
ABA0712_2-50	50	2	12	114734.6	114734.6	0.02%	4.49	0.12	4.62	14.04	18	3	18.66	TCLSHT
ABA0812_2-50	50	2	12	115442.5	115442.5	0.03%	4.19	0.06	4.25	4.12	12	2	8.38	TCLSHT
ABA0912_2-50	50	2	12	122425.8	122425.8	0.00%	3.44	0.15	3.59	4.44	24	4	8.03	TCLSHT
ABA0018_2-50	50	2	18	175783.6	175783.6	0.00%	3.96	0.13	4.10	4.37	24	3	8.48	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%	4.22	0.13	4.35	4.02	24	3	8.38	TCLSHT
ABA0218_2-50	50	2	18	169752.9	169752.9	0.02%	9.01	0.12	9.13	10.23	16	2	19.37	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%	4.89	0.19	5.08	8.70	32	4	13.78	TCLSHT
ABA0418_2-50	50	2	18	182045.8	182045.8	0.07%	12.33	0.42	12.76	78.01	24	3	90.77	TCLSHT
ABA0518_2-50	50	2	18	181094.6	181094.6	0.01%	4.65	0.09	4.74	12.65	16	2	17.40	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%	5.83	0.10	5.94	3.88	16	2	9.82	TCLSHT
ABA0718_2-50	50	2	18	172463.9	172463.9	0.00%	6.10	0.14	6.24	6.00	16	2	12.24	TCLSHT
ABA0818_2-50	50	2	18	173619.3	173619.3	0.02%	7.69	0.12	7.81	23.99	32	4	31.81	TCLSHT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0918_2-50	50	2	18	182993.9	182993.9	0.02%	9.85	0.13	9.98	20.37	32	4	30.35	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%	0.44	0.04	0.49	0.32	15	3	0.81	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%	0.60	0.06	0.66	1.13	20	4	1.79	TCLSHT
ABA026_4-6	6	4	6	7334.0	7334.0	0.00%	0.50	0.03	0.53	0.42	15	3	0.96	TCLSHT
ABA036_4-6	6	4	6	6700.2	6700.2	0.00%	0.63	0.03	0.66	0.44	20	4	1.11	TCLSHT
ABA046_4-6	6	4	6	5570.7	5570.7	0.31%	0.34	0.03	0.37	0.30	15	3	0.67	TCLSHT
ABA056_4-6	6	4	6	7908.4	7908.4	0.01%	0.89	0.04	0.93	1.88	20	4	2.81	TCLSHT
ABA066_4-6	6	4	6	6367.1	6367.1	0.00%	0.57	0.02	0.59	0.42	15	3	1.01	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%	0.42	0.02	0.44	0.13	10	2	0.57	TCLSHT
ABA086_4-6	6	4	6	5864.3	5864.3	0.09%	0.58	0.03	0.62	0.22	10	2	0.84	TCLSHT
ABA096_4-6	6	4	6	8570.0	8570.0	0.21%	0.52	0.03	0.55	0.53	15	3	1.08	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%	1.37	0.05	1.42	0.49	18	3	1.90	TCLSHT
ABA0112_4-6	6	4	12	15299.3	15299.3	0.20%	2.94	0.04	2.99	2.73	18	3	5.72	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%	2.22	0.08	2.30	1.34	24	4	3.64	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%	2.44	0.05	2.49	0.84	18	3	3.33	TCLSHT
ABA0412_4-6	6	4	12	12864.5	12864.5	0.00%	2.44	0.12	2.57	10.02	24	4	12.59	TCLSHT
ABA0512_4-6	6	4	12	15843.9	15843.9	0.18%	2.87	0.06	2.93	5.08	18	3	8.01	TCLSHT
ABA0612_4-6	6	4	12	12780.3	12780.3	0.28%	2.64	0.04	2.68	0.58	18	3	3.26	TCLSHT
ABA0712_4-6	6	4	12	14689.6	14689.6	0.03%	2.20	0.05	2.25	1.18	24	4	3.42	TCLSHT
ABA0812_4-6	6	4	12	12366.3	12366.3	0.04%	2.56	0.08	2.64	1.24	18	3	3.89	TCLSHT
ABA0912_4-6	6	4	12	14857.1	14857.1	0.08%	3.00	0.04	3.03	0.41	12	2	3.45	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%	4.72	0.09	4.81	3.04	32	4	7.85	TCLSHT
ABA0118_4-6	6	4	18	21749.4	21749.4	0.08%	9.67	0.13	9.81	7.62	40	5	17.43	TCLSHT
ABA0218_4-6	6	4	18	21432.5	21432.5	0.00%	5.47	0.10	5.57	3.42	32	4	8.99	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%	5.31	0.12	5.44	2.27	24	3	7.71	TCLSHT
ABA0418_4-6	6	4	18	19933.7	19933.7	0.00%	4.88	0.08	4.96	4.07	24	3	9.03	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.10%	7.69	0.11	7.81	15.34	40	5	23.15	TCLSHT
ABA0618_4-6	6	4	18	19782.0	19782.0	0.08%	9.20	0.06	9.27	2.94	24	3	12.21	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%	5.21	0.05	5.26	2.01	32	4	7.27	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%	5.01	0.06	5.07	1.20	16	2	6.27	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%	5.82	0.06	5.88	1.31	16	2	7.19	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%	0.90	0.03	0.93	0.59	10	2	1.52	TCLSHT
ABA016_4-12	12	4	6	15442.2	15442.2	0.02%	1.56	0.04	1.61	2.96	20	4	4.57	TCLSHT
ABA026_4-12	12	4	6	13171.1	13171.1	0.10%	0.58	0.02	0.60	0.54	15	3	1.15	TCLSHT
ABA036_4-12	12	4	6	12358.8	12358.8	0.15%	0.94	0.03	0.97	1.04	20	4	2.02	TCLSHT
ABA046_4-12	12	4	6	14422.7	14422.7	0.32%	0.82	0.04	0.86	0.65	10	2	1.51	TCLSHT
ABA056_4-12	12	4	6	14184.0	14184.0	0.01%	0.77	0.05	0.82	1.23	15	3	2.05	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%	0.83	0.02	0.86	0.23	10	2	1.08	TCLSHT
ABA076_4-12	12	4	6	12500.9	12500.9	0.16%	0.86	0.04	0.91	0.64	10	2	1.54	TCLSHT
ABA086_4-12	12	4	6	14701.7	14701.7	0.01%	0.80	0.04	0.84	0.71	15	3	1.56	TCLSHT
ABA096_4-12	12	4	6	13311.0	13311.0	0.30%	0.99	0.04	1.03	1.71	20	4	2.74	TCLSHT
ABA0012_4-12	12	4	12	24808.6	24808.6	0.21%	2.99	0.11	3.10	5.73	24	4	8.83	TCLSHT
ABA0112_4-12	12	4	12	28700.6	28700.6	0.32%	6.07	0.13	6.20	6.74	18	3	12.95	TCLSHT
ABA0212_4-12	12	4	12	26547.8	26547.8	0.08%	3.41	0.05	3.46	1.46	12	2	4.92	TCLSHT
ABA0312_4-12	12	4	12	25466.3	25466.3	0.01%	2.74	0.07	2.81	1.35	12	2	4.16	TCLSHT
ABA0412_4-12	12	4	12	27368.8	27368.8	0.00%	3.67	0.08	3.75	2.14	18	3	5.89	TCLSHT
ABA0512_4-12	12	4	12	27924.4	27924.4	0.00%	2.28	0.08	2.36	2.28	18	3	4.64	TCLSHT
ABA0612_4-12	12	4	12	24657.7	24657.7	0.17%	1.35	0.06	1.41	1.15	18	3	2.57	TCLSHT
ABA0712_4-12	12	4	12	26373.5	26373.5	0.07%	3.20	0.09	3.29	3.50	24	4	6.79	TCLSHT
ABA0812_4-12	12	4	12	28158.7	28158.7	0.06%	3.70	0.06	3.76	1.79	18	3	5.55	TCLSHT
ABA0912_4-12	12	4	12	28671.9	28671.9	0.28%	4.81	0.11	4.92	8.05	24	4	12.98	TCLSHT
ABA0018_4-12	12	4	18	38450.8	38450.8	0.23%	7.25	0.11	7.36	29.96	32	4	37.32	TCLSHT
ABA0118_4-12	12	4	18	42124.0	42124.0	0.31%	15.41	0.13	15.55	33.75	24	3	49.30	TCLSHT
ABA0218_4-12	12	4	18	39456.7	39456.7	0.01%	5.61	0.10	5.71	6.67	24	3	12.38	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.01%	9.06	0.15	9.22	9.26	32	4	18.48	TCLSHT
ABA0418_4-12	12	4	18	40777.9	40777.9	0.03%	5.66	0.12	5.79	9.66	32	4	15.44	TCLSHT
ABA0518_4-12	12	4	18	41136.5	41136.5	0.03%	5.58	0.26	5.85	11.94	32	4	17.79	TCLSHT
ABA0618_4-12	12	4	18	37165.8	37165.8	0.02%	5.75	0.08	5.83	2.40	24	3	8.23	TCLSHT
ABA0718_4-12	12	4	18	41273.5	41273.5	0.09%	6.28	0.17	6.46	19.22	32	4	25.68	TCLSHT
ABA0818_4-12	12	4	18	42914.2	42914.2	0.01%	7.22	0.11	7.33	3.96	16	2	11.29	TCLSHT
ABA0918_4-12	12	4	18	41710.6	41710.6	0.25%	8.62	0.10	8.73	32.51	24	3	41.24	TCLSHT
ABA006_4-25	25	4	6	25601.1	25601.1	0.01%	1.36	0.07	1.44	1.36	15	3	2.80	TCLSHT
ABA016_4-25	25	4	6	29509.3	29509.3	0.04%	1.52	0.05	1.57	1.87	20	4	3.44	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%	1.64	0.05	1.69	2.48	15	3	4.16	TCLSHT
ABA036_4-25	25	4	6	26038.2	26038.2	0.02%	1.48	0.09	1.57	4.61	30	6	6.18	TCLSHT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%	0.87	0.04	0.91	0.74	15	3	1.65	TCLSHT
ABA056_4-25	25	4	6	30245.6	30245.6	0.26%	1.42	0.04	1.46	2.45	15	3	3.91	TCLSHT
ABA066_4-25	25	4	6	25377.4	25377.4	0.00%	1.03	0.04	1.07	0.50	15	3	1.58	TCLSHT
ABA076_4-25	25	4	6	27077.3	27077.3	0.03%	1.57	0.04	1.61	1.94	10	2	3.56	TCLSHT
ABA086_4-25	25	4	6	26264.8	26264.8	0.01%	1.17	0.06	1.23	1.00	20	4	2.23	TCLSHT
ABA096_4-25	25	4	6	27967.8	27967.8	0.03%	1.93	0.03	1.96	0.94	10	2	2.91	TCLSHT
ABA0012_4-25	25	4	12	53792.1	53792.1	0.10%	6.36	0.14	6.50	14.83	24	4	21.33	TCLSHT
ABA0112_4-25	25	4	12	56367.6	56367.6	0.00%	3.57	0.10	3.67	3.11	18	3	6.79	TCLSHT
ABA0212_4-25	25	4	12	53344.0	53344.0	0.08%	4.56	0.14	4.70	17.37	24	4	22.07	TCLSHT
ABA0312_4-25	25	4	12	54117.6	54117.6	0.00%	3.92	0.24	4.16	6.34	18	3	10.51	TCLSHT
ABA0412_4-25	25	4	12	54988.8	54988.8	0.04%	2.92	0.32	3.23	2.13	18	3	5.36	TCLSHT
ABA0512_4-25	25	4	12	57166.9	57166.9	0.07%	3.31	0.10	3.41	3.92	24	4	7.33	TCLSHT
ABA0612_4-25	25	4	12	50712.9	50712.9	0.00%	2.19	0.06	2.25	2.25	18	3	4.50	TCLSHT
ABA0712_4-25	25	4	12	55633.8	55633.8	0.15%	5.80	0.09	5.89	27.79	24	4	33.68	TCLSHT
ABA0812_4-25	25	4	12	54116.9	54116.9	0.00%	3.81	0.10	3.92	8.49	24	4	12.41	TCLSHT
ABA0912_4-25	25	4	12	54995.4	54995.4	0.15%	6.01	0.10	6.10	31.44	24	4	37.55	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.05%	10.39	0.22	10.61	23.61	24	3	34.23	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%	8.87	0.12	9.00	9.92	32	4	18.92	TCLSHT
ABA0218_4-25	25	4	18	80986.9	80986.9	0.07%	7.86	0.15	8.01	59.70	40	5	67.72	TCLSHT
ABA0318_4-25	25	4	18	80514.6	80514.6	0.06%	10.15	0.15	10.31	22.58	32	4	32.89	TCLSHT
ABA0418_4-25	25	4	18	83338.5	83338.5	0.00%	3.60	0.09	3.70	3.87	24	3	7.58	TCLSHT
ABA0518_4-25	25	4	18	84450.0	84450.0	0.06%	11.74	0.31	12.05	23.05	32	4	35.11	TCLSHT
ABA0618_4-25	25	4	18	77422.3	77422.3	0.02%	6.02	0.14	6.16	4.77	24	3	10.94	TCLSHT
ABA0718_4-25	25	4	18	82751.8	82751.8	0.15%	16.36	0.18	16.54	65.88	24	3	82.42	TCLSHT
ABA0818_4-25	25	4	18	78529.0	78529.0	0.01%	9.62	0.13	9.75	6.50	16	2	16.25	TCLSHT
ABA0918_4-25	25	4	18	82442.2	82442.2	0.07%	8.90	0.17	9.07	32.36	24	3	41.43	TCLSHT
ABA006_4-50	50	4	6	54644.8	54644.8	0.01%	2.23	0.10	2.33	2.23	20	4	4.57	TCLSHT
ABA016_4-50	50	4	6	55420.1	55420.1	0.03%	2.24	0.07	2.32	2.74	25	5	5.06	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%	2.06	0.08	2.15	1.42	10	2	3.57	TCLSHT
ABA036_4-50	50	4	6	55307.1	55307.1	0.08%	2.53	0.09	2.62	8.64	10	2	11.26	TCLSHT
ABA046_4-50	50	4	6	56928.3	56928.3	0.02%	3.07	0.09	3.16	5.63	15	3	8.80	TCLSHT
ABA056_4-50	50	4	6	57381.9	57381.9	0.01%	1.54	0.10	1.64	1.75	15	3	3.39	TCLSHT
ABA066_4-50	50	4	6	52908.3	52908.3	0.07%	1.84	0.28	2.12	4.17	20	4	6.29	TCLSHT
ABA076_4-50	50	4	6	51691.1	51691.1	0.02%	2.11	0.08	2.19	3.94	20	4	6.13	TCLSHT
ABA086_4-50	50	4	6	52928.7	52928.7	0.02%	1.96	0.11	2.08	1.94	10	2	4.02	TCLSHT
ABA096_4-50	50	4	6	60173.4	60173.4	0.01%	2.17	0.11	2.28	3.36	20	4	5.64	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.02%	6.81	0.17	6.99	41.26	24	4	48.26	TCLSHT
ABA0112_4-50	50	4	12	108478.6	108478.6	0.02%	4.96	0.15	5.11	4.63	18	3	9.75	TCLSHT
ABA0212_4-50	50	4	12	108037.7	108037.7	0.02%	7.31	0.16	7.47	11.11	30	5	18.60	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.02%	8.07	0.13	8.21	11.78	18	3	19.99	TCLSHT
ABA0412_4-50	50	4	12	109702.2	109702.2	0.04%	6.79	0.42	7.21	21.13	18	3	28.35	TCLSHT
ABA0512_4-50	50	4	12	112015.9	112015.9	0.00%	4.56	0.11	4.67	3.37	18	3	8.05	TCLSHT
ABA0612_4-50	50	4	12	104015.5	104015.5	0.00%	3.47	0.12	3.59	3.06	18	3	6.65	TCLSHT
ABA0712_4-50	50	4	12	106672.3	106672.3	0.07%	9.45	0.19	9.64	27.80	24	4	37.44	TCLSHT
ABA0812_4-50	50	4	12	106518.3	106518.3	0.01%	3.58	0.14	3.72	3.44	18	3	7.16	TCLSHT
ABA0912_4-50	50	4	12	114404.4	114404.4	0.02%	6.38	0.23	6.62	9.86	24	4	16.48	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%	16.65	0.32	16.98	21.01	24	3	38.00	TCLSHT
ABA0118_4-50	50	4	18	161838.8	161838.8	0.02%	11.23	0.24	11.48	18.72	24	3	30.21	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%	12.95	0.26	13.22	25.28	24	3	38.51	TCLSHT
ABA0318_4-50	50	4	18	163385.5	163385.5	0.05%	19.92	0.21	20.15	41.41	24	3	61.56	TCLSHT
ABA0418_4-50	50	4	18	166583.3	166583.3	0.06%	18.32	0.34	18.67	64.45	24	3	83.13	TCLSHT
ABA0518_4-50	50	4	18	168098.6	168098.6	0.00%	8.75	0.27	9.03	15.47	32	4	24.50	TCLSHT
ABA0618_4-50	50	4	18	156359.0	156359.0	0.00%	9.28	0.39	9.68	15.35	32	4	25.03	TCLSHT
ABA0718_4-50	50	4	18	161773.7	161773.7	0.05%	21.84	0.35	22.20	66.67	24	3	88.88	TCLSHT
ABA0818_4-50	50	4	18	157373.3	157373.3	0.01%	6.68	0.19	6.87	8.80	24	3	15.68	TCLSHT
ABA0918_4-50	50	4	18	168535.2	168535.2	0.01%	10.98	0.29	11.28	21.51	32	4	32.80	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%	0.69	0.05	0.74	0.16	10	2	0.90	TCLSHT
ABA016_6-6	6	6	6	7316.6	7316.6	0.24%	1.60	0.10	1.70	1.37	20	4	3.08	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%	0.74	0.06	0.79	0.38	20	4	1.18	TCLSHT
ABA036_6-6	6	6	6	7413.1	7413.1	0.00%	0.76	0.05	0.80	0.32	15	3	1.12	TCLSHT
ABA046_6-6	6	6	6	8167.0	8167.0	0.15%	1.41	0.06	1.48	0.66	15	3	2.14	TCLSHT
ABA056_6-6	6	6	6	8037.9	8037.9	0.00%	1.18	0.04	1.23	0.90	20	4	2.13	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%	0.68	0.06	0.74	0.50	20	4	1.24	TCLSHT
ABA076_6-6	6	6	6	7779.2	7779.2	0.06%	1.34	0.04	1.38	0.47	15	3	1.85	TCLSHT
ABA086_6-6	6	6	6	6744.1	6744.1	0.43%	1.19	0.06	1.25	0.43	15	3	1.68	TCLSHT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA096_6-6	6	6	6	7551.8	7551.8	0.00%	1.23	0.07	1.30	0.81	20	4	2.11	TCLSHT
ABA0012_6-6	6	6	12	12141.4	12141.4	0.04%	1.74	0.06	1.80	0.52	18	3	2.32	TCLSHT
ABA0112_6-6	6	6	12	14293.3	14293.3	0.00%	4.93	0.24	5.17	3.18	24	4	8.35	TCLSHT
ABA0212_6-6	6	6	12	14346.4	14346.4	0.11%	7.42	0.18	7.60	1.44	18	3	9.05	TCLSHT
ABA0312_6-6	6	6	12	14874.0	14874.0	0.24%	4.90	0.06	4.97	1.29	18	3	6.26	TCLSHT
ABA0412_6-6	6	6	12	15055.7	15055.7	0.07%	6.63	0.53	7.16	1.96	18	3	9.12	TCLSHT
ABA0512_6-6	6	6	12	14737.7	14737.7	0.00%	3.01	0.12	3.13	1.80	18	3	4.93	TCLSHT
ABA0612_6-6	6	6	12	12767.0	12767.0	0.00%	3.36	0.07	3.43	1.74	18	3	5.17	TCLSHT
ABA0712_6-6	6	6	12	15291.9	15291.9	0.00%	5.96	0.13	6.09	1.55	24	4	7.64	TCLSHT
ABA0812_6-6	6	6	12	12626.4	12626.4	0.07%	6.68	0.10	6.78	2.24	24	4	9.02	TCLSHT
ABA0912_6-6	6	6	12	14371.3	14371.3	0.23%	5.64	0.17	5.80	4.18	36	6	9.99	TCLSHT
ABA0018_6-6	6	6	18	17952.6	17952.6	0.01%	5.62	0.15	5.77	1.16	32	4	6.93	TCLSHT
ABA0218_6-6	6	6	18	20075.8	20075.8	0.01%	12.18	0.14	12.32	3.12	32	4	15.44	TCLSHT
ABA0318_6-6	6	6	18	20680.1	20680.1	0.05%	11.66	0.14	11.81	3.87	32	4	15.67	TCLSHT
ABA0418_6-6	6	6	18	22441.3	22441.3	0.02%	15.50	0.44	15.95	6.16	32	4	22.11	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%	9.73	0.14	9.87	4.52	32	4	14.38	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%	11.15	0.14	11.29	1.66	16	2	12.95	TCLSHT
ABA0718_6-6	6	6	18	22016.4	22016.4	0.03%	14.42	0.17	14.60	2.94	24	3	17.54	TCLSHT
ABA0818_6-6	6	6	18	20299.5	20299.5	0.20%	18.40	0.31	18.71	3.59	24	3	22.30	TCLSHT
ABA0918_6-6	6	6	18	21702.5	21702.5	0.00%	15.37	0.36	15.73	4.03	16	2	19.77	TCLSHT
ABA006_6-12	12	6	6	12825.4	12825.4	0.10%	1.18	0.05	1.23	1.07	15	3	2.30	TCLSHT
ABA016_6-12	12	6	6	13113.1	13113.1	0.00%	1.22	0.10	1.33	1.24	15	3	2.57	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%	0.89	0.05	0.94	0.56	10	2	1.50	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%	1.03	0.03	1.07	0.41	15	3	1.48	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%	1.09	0.03	1.13	0.61	15	3	1.74	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%	0.86	0.05	0.91	0.87	20	4	1.78	TCLSHT
ABA066_6-12	12	6	6	11702.1	11702.1	0.00%	1.23	0.08	1.31	1.43	20	4	2.74	TCLSHT
ABA076_6-12	12	6	6	13572.5	13572.5	0.00%	1.69	0.06	1.75	3.57	15	3	5.32	TCLSHT
ABA086_6-12	12	6	6	13529.0	13529.0	0.44%	2.05	0.04	2.09	2.07	15	3	4.16	TCLSHT
ABA096_6-12	12	6	6	14421.5	14421.5	0.12%	1.84	0.08	1.93	2.64	15	3	4.57	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%	4.19	0.07	4.27	2.74	24	4	7.01	TCLSHT
ABA0112_6-12	12	6	12	25703.3	25703.3	0.02%	5.11	0.14	5.25	2.89	18	3	8.14	TCLSHT
ABA0212_6-12	12	6	12	24242.4	24242.4	0.10%	4.26	0.22	4.48	11.62	18	3	16.10	TCLSHT
ABA0312_6-12	12	6	12	26589.5	26589.5	0.00%	2.93	0.18	3.12	2.80	24	4	5.92	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%	2.27	0.12	2.40	2.34	24	4	4.74	TCLSHT
ABA0512_6-12	12	6	12	26322.3	26322.3	0.00%	5.22	0.11	5.33	4.81	24	4	10.13	TCLSHT
ABA0612_6-12	12	6	12	23649.2	23649.2	0.05%	4.84	0.09	4.92	2.84	12	2	7.76	TCLSHT
ABA0712_6-12	12	6	12	28127.5	28127.5	0.09%	6.17	0.16	6.34	24.32	24	4	30.66	TCLSHT
ABA0812_6-12	12	6	12	25975.7	25975.7	0.20%	7.52	0.12	7.63	10.34	24	4	17.98	TCLSHT
ABA0912_6-12	12	6	12	27432.0	27432.0	0.03%	6.98	0.12	7.11	4.15	18	3	11.26	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%	10.86	0.10	10.96	8.82	24	3	19.78	TCLSHT
ABA0118_6-12	12	6	18	41270.3	41270.3	0.07%	13.58	0.16	13.74	15.87	32	4	29.61	TCLSHT
ABA0218_6-12	12	6	18	36881.5	36881.5	0.00%	9.89	0.14	10.03	12.07	32	4	22.11	TCLSHT
ABA0318_6-12	12	6	18	38512.4	38512.4	0.00%	8.01	0.15	8.16	5.83	16	2	13.99	TCLSHT
ABA0418_6-12	12	6	18	37127.4	37127.4	0.00%	5.77	0.15	5.92	4.24	16	2	10.16	TCLSHT
ABA0518_6-12	12	6	18	40633.3	40633.3	0.02%	9.83	0.23	10.07	12.61	32	4	22.68	TCLSHT
ABA0618_6-12	12	6	18	37440.2	37440.2	0.05%	14.03	0.15	14.18	10.49	16	2	24.67	TCLSHT
ABA0718_6-12	12	6	18	41590.9	41590.9	0.20%	17.34	0.20	17.55	21.54	32	4	39.09	TCLSHT
ABA0818_6-12	12	6	18	39535.3	39535.3	0.28%	17.67	0.19	17.88	72.75	32	4	90.63	TCLSHT
ABA0918_6-12	12	6	18	41326.0	41326.0	0.04%	14.47	0.25	14.71	16.48	32	4	31.20	TCLSHT
ABA006_6-25	25	6	6	25664.9	25664.9	0.02%	2.18	0.09	2.28	6.58	15	3	8.87	TCLSHT
ABA016_6-25	25	6	6	25416.7	25416.7	0.05%	2.95	0.07	3.02	7.50	25	5	10.52	TCLSHT
ABA026_6-25	25	6	6	26804.0	26804.0	0.05%	1.43	0.06	1.49	1.55	20	4	3.05	TCLSHT
ABA036_6-25	25	6	6	26814.4	26814.4	0.00%	2.55	0.08	2.63	14.48	20	4	17.12	TCLSHT
ABA046_6-25	25	6	6	28539.0	28539.0	0.10%	3.48	0.11	3.59	18.85	15	3	22.44	TCLSHT
ABA056_6-25	25	6	6	26305.6	26305.6	0.07%	2.55	0.08	2.64	8.92	20	4	11.55	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%	1.20	0.11	1.31	1.76	15	3	3.07	TCLSHT
ABA076_6-25	25	6	6	27982.9	27982.9	0.03%	2.13	0.09	2.22	3.94	20	4	6.16	TCLSHT
ABA086_6-25	25	6	6	26705.4	26705.4	0.14%	2.05	0.12	2.17	6.66	15	3	8.83	TCLSHT
ABA096_6-25	25	6	6	26343.4	26343.4	0.00%	2.65	0.08	2.74	2.72	20	4	5.46	TCLSHT
ABA0012_6-25	25	6	12	52458.3	52458.3	0.09%	11.13	0.25	11.39	23.69	18	3	35.08	TCLSHT
ABA0112_6-25	25	6	12	52630.5	52630.5	0.11%	9.66	0.23	9.89	51.22	24	4	61.11	TCLSHT
ABA0212_6-25	25	6	12	54010.6	54010.6	0.03%	5.89	0.15	6.04	6.79	18	3	12.84	TCLSHT
ABA0312_6-25	25	6	12	52441.8	52441.8	0.15%	9.71	0.20	9.91	15.72	18	3	25.62	TCLSHT
ABA0412_6-25	25	6	12	56020.4	56020.4	0.16%	8.26	0.25	8.52	46.85	24	4	55.37	TCLSHT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0512_6-25	25	6	12	51817.2	51817.2	0.07%	7.20	0.29	7.50	29.51	24	4	37.02	TCLSHT
ABA0612_6-25	25	6	12	50992.9	50992.9	0.02%	3.84	0.12	3.96	4.57	24	4	8.54	TCLSHT
ABA0712_6-25	25	6	12	52742.9	52742.9	0.09%	7.77	0.17	7.94	13.38	24	4	21.32	TCLSHT
ABA0812_6-25	25	6	12	51190.4	51190.4	0.01%	5.34	0.33	5.68	15.86	30	5	21.54	TCLSHT
ABA0912_6-25	25	6	12	53592.9	53592.9	0.03%	6.70	0.22	6.92	16.73	24	4	23.66	TCLSHT
ABA0018_6-25	25	6	18	76418.4	76418.4	0.16%	17.19	0.42	17.62	95.33	24	3	112.95	TCLSHT
ABA0118_6-25	25	6	18	79416.4	79416.4	0.05%	18.11	0.35	18.47	59.28	24	3	77.75	TCLSHT
ABA0218_6-25	25	6	18	81685.4	81685.4	0.04%	18.03	0.27	18.30	51.66	32	4	69.97	TCLSHT
ABA0318_6-25	25	6	18	79857.3	79857.3	0.25%	21.79	0.54	22.33	138.77	24	3	161.11	TCLSHT
ABA0418_6-25	25	6	18	84932.3	84932.3	0.13%	15.87	0.24	16.12	108.20	32	4	124.32	TCLSHT
ABA0518_6-25	25	6	18	81002.3	81002.3	0.07%	16.49	0.34	16.83	49.87	32	4	66.71	TCLSHT
ABA0618_6-25	25	6	18	76312.7	76312.7	0.00%	11.32	0.20	11.53	15.81	32	4	27.34	TCLSHT
ABA0718_6-25	25	6	18	77695.9	77695.9	0.05%	12.96	0.23	13.19	45.04	32	4	58.23	TCLSHT
ABA0818_6-25	25	6	18	75117.4	75117.4	0.02%	14.28	0.28	14.57	33.50	32	4	48.08	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%	12.11	0.31	12.42	15.67	32	4	28.10	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%	3.50	0.11	3.61	6.05	15	3	9.66	TCLSHT
ABA016_6-50	50	6	6	50639.7	50639.7	0.00%	3.30	0.20	3.51	7.02	15	3	10.53	TCLSHT
ABA026_6-50	50	6	6	52223.7	52223.7	0.09%	4.46	0.13	4.59	11.80	15	3	16.40	TCLSHT
ABA036_6-50	50	6	6	51690.8	51690.8	0.01%	2.41	0.08	2.49	5.21	20	4	7.71	TCLSHT
ABA046_6-50	50	6	6	54008.2	54008.2	0.01%	4.20	0.16	4.37	9.27	10	2	13.64	TCLSHT
ABA056_6-50	50	6	6	52780.7	52780.7	0.05%	3.66	0.14	3.80	5.11	15	3	8.91	TCLSHT
ABA066_6-50	50	6	6	51971.6	51971.6	0.03%	3.99	0.12	4.11	20.30	20	4	24.41	TCLSHT
ABA076_6-50	50	6	6	54017.2	54017.2	0.03%	3.23	0.15	3.38	3.30	15	3	6.69	TCLSHT
ABA086_6-50	50	6	6	50868.0	50868.0	0.00%	3.57	0.11	3.70	23.14	25	5	26.84	TCLSHT
ABA096_6-50	50	6	6	50681.2	50681.2	0.01%	2.19	0.08	2.27	3.34	15	3	5.62	TCLSHT
ABA0012_6-50	50	6	12	102504.4	102504.4	0.01%	10.07	0.49	10.57	31.05	30	5	41.62	TCLSHT
ABA0112_6-50	50	6	12	101536.7	101536.7	0.02%	11.26	0.25	11.52	26.06	18	3	37.59	TCLSHT
ABA0212_6-50	50	6	12	105105.5	105105.5	0.06%	13.17	0.50	13.68	56.26	18	3	69.95	TCLSHT
ABA0312_6-50	50	6	12	102584.7	102584.7	0.04%	10.15	0.20	10.35	22.16	24	4	32.52	TCLSHT
ABA0412_6-50	50	6	12	109754.2	109754.2	0.04%	10.88	0.50	11.39	42.78	18	3	54.17	TCLSHT
ABA0512_6-50	50	6	12	105401.5	105401.5	0.07%	10.53	0.31	10.85	62.40	30	5	73.25	TCLSHT
ABA0612_6-50	50	6	12	102026.0	102026.0	0.05%	12.76	0.64	13.41	76.37	30	5	89.78	TCLSHT
ABA0712_6-50	50	6	12	107579.2	107579.2	0.04%	10.88	0.23	11.11	31.06	36	6	42.18	TCLSHT
ABA0812_6-50	50	6	12	99919.8	99919.8	0.03%	7.60	0.59	8.20	23.73	24	4	31.93	TCLSHT
ABA0912_6-50	50	6	12	102320.1	102320.1	0.01%	9.11	0.37	9.48	22.73	18	3	32.21	TCLSHT
ABA0018_6-50	50	6	18	152843.4	152843.4	0.03%	23.29	0.53	23.82	53.74	16	2	77.57	TCLSHT
ABA0118_6-50	50	6	18	150978.2	150978.2	0.02%	27.28	0.55	27.84	31.11	16	2	58.96	TCLSHT
ABA0218_6-50	50	6	18	154526.8	154526.8	0.08%	23.83	0.75	24.59	69.86	16	2	94.46	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%	21.25	0.58	21.85	30.08	24	3	51.94	TCLSHT
ABA0418_6-50	50	6	18	164858.9	164858.9	0.05%	24.16	0.77	24.94	118.95	32	4	143.90	TCLSHT
ABA0518_6-50	50	6	18	155433.9	155433.9	0.07%	28.39	0.82	29.21	144.38	32	4	173.61	TCLSHT
ABA0618_6-50	50	6	18	154279.6	154279.6	0.07%	32.34	0.71	33.06	191.79	40	5	224.86	TCLSHT
ABA0718_6-50	50	6	18	159131.1	159131.1	0.03%	20.02	0.39	20.42	66.95	32	4	87.37	TCLSHT
ABA0818_6-50	50	6	18	151035.2	151035.2	0.00%	14.50	0.48	15.00	21.44	16	2	36.45	TCLSHT
ABA0918_6-50	50	6	18	154193.1	154193.1	0.03%	19.87	0.33	20.21	103.00	40	5	123.22	TCLSHT
ABB006_2-6	6	2	6	8226.6	8226.6	0.00%	0.44	0.02	0.46	0.76	25	5	1.23	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%	0.27	0.02	0.29	0.20	15	3	0.49	TCLSLT
ABB026_2-6	6	2	6	7170.7	7170.7	0.19%	0.38	0.01	0.39	0.17	10	2	0.57	TCLSLT
ABB046_2-6	6	2	6	8149.1	8149.1	1.44%	0.39	0.02	0.41	0.83	15	3	1.24	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%	0.24	0.02	0.26	0.15	15	3	0.41	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%	0.39	0.02	0.41	0.19	10	2	0.60	TCLSLT
ABB076_2-6	6	2	6	9178.5	9178.5	0.00%	0.28	0.02	0.30	0.19	10	2	0.49	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%	0.28	0.01	0.29	0.04	5	1	0.34	TCLSLT
ABB096_2-6	6	2	6	7159.3	7159.3	0.10%	0.26	0.01	0.28	0.12	15	3	0.40	TCLSLT
ABB0012_2-6	6	2	12	15716.8	15716.8	0.01%	2.01	0.02	2.04	1.73	30	5	3.77	TCLSLT
ABB0112_2-6	6	2	12	13458.1	13458.1	0.00%	1.05	0.03	1.08	0.67	18	3	1.75	TCLSLT
ABB0212_2-6	6	2	12	14994.9	14994.9	0.30%	1.39	0.02	1.42	0.98	18	3	2.40	TCLSLT
ABB0412_2-6	6	2	12	14203.2	14203.2	0.45%	1.64	0.03	1.67	1.17	18	3	2.84	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%	0.69	0.03	0.72	0.73	30	5	1.45	TCLSLT
ABB0612_2-6	6	2	12	15105.9	15105.9	0.14%	0.96	0.03	0.99	0.82	18	3	1.81	TCLSLT
ABB0712_2-6	6	2	12	16726.5	16726.5	0.08%	1.48	0.03	1.52	0.88	24	4	2.40	TCLSLT
ABB0812_2-6	6	2	12	14190.2	14190.2	0.03%	0.94	0.02	0.96	0.42	12	2	1.38	TCLSLT
ABB0912_2-6	6	2	12	16167.8	16167.8	0.06%	1.00	0.02	1.02	0.43	18	3	1.45	TCLSLT
ABB0018_2-6	6	2	18	22001.6	22001.6	0.24%	5.36	0.04	5.40	4.40	24	3	9.80	TCLSLT
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%	2.78	0.03	2.81	0.73	24	3	3.54	TCLSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0218_2-6	6	2	18	22591.8	22591.8	0.00%	2.79	0.04	2.83	1.64	24	3	4.47	TCLSLT
ABB0418_2-6	6	2	18	20469.9	20469.9	0.40%	5.03	0.03	5.07	3.11	24	3	8.18	TCLSLT
ABB0518_2-6	6	2	18	25198.4	25198.4	0.00%	2.07	0.07	2.14	2.38	32	4	4.52	TCLSLT
ABB0618_2-6	6	2	18	22966.8	22966.8	0.10%	2.99	0.04	3.03	1.81	24	3	4.85	TCLSLT
ABB0718_2-6	6	2	18	24519.1	24519.1	0.06%	4.11	0.03	4.14	2.32	24	3	6.47	TCLSLT
ABB0818_2-6	6	2	18	20972.8	20972.8	0.01%	2.70	0.05	2.75	2.40	32	4	5.15	TCLSLT
ABB0918_2-6	6	2	18	22509.1	22509.1	0.00%	1.88	0.03	1.92	0.67	16	2	2.58	TCLSLT
ABB006_2-12	12	2	6	12765.5	12765.5	0.10%	0.44	0.02	0.45	0.17	10	2	0.62	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%	0.53	0.02	0.56	0.36	15	3	0.92	TCLSLT
ABB026_2-12	12	2	6	14404.4	14404.4	0.14%	0.65	0.02	0.67	0.55	15	3	1.23	TCLSLT
ABB036_2-12	12	2	6	16425.0	16425.0	0.19%	0.47	0.02	0.49	0.50	15	3	0.99	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%	0.56	0.02	0.58	0.35	10	2	0.93	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%	0.55	0.02	0.58	0.25	10	2	0.83	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%	0.42	0.02	0.45	0.49	15	3	0.94	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%	0.37	0.02	0.39	0.32	15	3	0.71	TCLSLT
ABB086_2-12	12	2	6	12999.9	12999.9	0.13%	0.52	0.02	0.54	0.48	15	3	1.02	TCLSLT
ABB096_2-12	12	2	6	16045.8	16045.8	0.08%	0.60	0.02	0.62	0.70	15	3	1.33	TCLSLT
ABB0012_2-12	12	2	12	26283.8	26283.8	0.00%	1.11	0.05	1.16	0.75	18	3	1.91	TCLSLT
ABB0112_2-12	12	2	12	27509.7	27509.7	0.00%	1.58	0.03	1.61	1.17	24	4	2.79	TCLSLT
ABB0212_2-12	12	2	12	27439.5	27439.5	0.18%	1.86	0.03	1.90	2.37	18	3	4.27	TCLSLT
ABB0312_2-12	12	2	12	31879.2	31879.2	0.09%	1.65	0.07	1.72	1.95	30	5	3.67	TCLSLT
ABB0412_2-12	12	2	12	28366.6	28366.6	0.03%	1.88	0.03	1.91	0.84	18	3	2.75	TCLSLT
ABB0512_2-12	12	2	12	32205.3	32205.3	0.01%	1.66	0.04	1.70	1.38	18	3	3.08	TCLSLT
ABB0612_2-12	12	2	12	27347.7	27347.7	0.00%	1.73	0.04	1.77	0.74	18	3	2.51	TCLSLT
ABB0712_2-12	12	2	12	30567.5	30567.5	0.01%	1.32	0.04	1.36	1.01	18	3	2.37	TCLSLT
ABB0812_2-12	12	2	12	26758.8	26758.8	0.05%	1.63	0.03	1.66	1.76	24	4	3.43	TCLSLT
ABB0912_2-12	12	2	12	31313.4	31313.4	0.23%	2.83	0.04	2.87	2.16	18	3	5.03	TCLSLT
ABB0118_2-12	12	2	18	40655.3	40655.3	0.09%	3.46	0.07	3.53	3.42	24	3	6.96	TCLSLT
ABB0218_2-12	12	2	18	42026.8	42026.8	0.15%	7.72	0.06	7.78	8.00	32	4	15.79	TCLSLT
ABB0318_2-12	12	2	18	46500.2	46500.2	0.21%	4.23	0.05	4.29	3.79	16	2	8.08	TCLSLT
ABB0418_2-12	12	2	18	44295.0	44295.0	0.03%	3.10	0.05	3.15	3.50	24	3	6.66	TCLSLT
ABB0518_2-12	12	2	18	47435.5	47435.5	0.06%	3.26	0.07	3.33	3.84	24	3	7.18	TCLSLT
ABB0618_2-12	12	2	18	40779.1	40779.1	0.05%	3.69	0.04	3.74	1.63	16	2	5.37	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%	2.17	0.06	2.22	1.50	16	2	3.73	TCLSLT
ABB0818_2-12	12	2	18	41507.3	41507.3	0.13%	3.71	0.06	3.78	7.05	24	3	10.83	TCLSLT
ABB0918_2-12	12	2	18	47569.2	47569.2	0.25%	4.77	0.07	4.84	16.95	32	4	21.79	TCLSLT
ABB006_2-25	25	2	6	29259.2	29259.2	0.14%	0.57	0.03	0.60	0.67	15	3	1.27	TCLSLT
ABB016_2-25	25	2	6	30002.5	30002.5	0.16%	1.00	0.03	1.03	0.81	10	2	1.83	TCLSLT
ABB026_2-25	25	2	6	28798.4	28798.4	0.08%	1.19	0.03	1.22	1.09	15	3	2.32	TCLSLT
ABB036_2-25	25	2	6	30288.7	30288.7	0.04%	0.72	0.02	0.74	1.27	15	3	2.01	TCLSLT
ABB046_2-25	25	2	6	31552.9	31552.9	0.04%	0.89	0.03	0.92	0.82	10	2	1.75	TCLSLT
ABB056_2-25	25	2	6	31768.9	31768.9	0.07%	1.05	0.04	1.09	2.00	15	3	3.09	TCLSLT
ABB066_2-25	25	2	6	27915.6	27915.6	0.07%	0.55	0.04	0.59	0.26	10	2	0.85	TCLSLT
ABB076_2-25	25	2	6	31475.7	31475.7	0.12%	1.08	0.03	1.11	1.07	10	2	2.17	TCLSLT
ABB086_2-25	25	2	6	32359.2	32359.2	0.02%	0.95	0.04	0.99	1.29	15	3	2.29	TCLSLT
ABB096_2-25	25	2	6	33499.7	33499.7	0.10%	0.94	0.03	0.98	1.68	15	3	2.66	TCLSLT
ABB0012_2-25	25	2	12	58334.1	58334.1	0.01%	2.38	0.05	2.43	3.89	18	3	6.32	TCLSLT
ABB0112_2-25	25	2	12	61106.9	61106.9	0.03%	2.68	0.06	2.74	4.10	18	3	6.85	TCLSLT
ABB0212_2-25	25	2	12	56467.9	56467.9	0.05%	4.04	0.05	4.10	4.12	18	3	8.21	TCLSLT
ABB0312_2-25	25	2	12	59350.2	59350.2	0.06%	3.36	0.23	3.59	6.21	30	5	9.80	TCLSLT
ABB0412_2-25	25	2	12	59863.0	59863.0	0.01%	2.58	0.08	2.66	2.00	18	3	4.67	TCLSLT
ABB0512_2-25	25	2	12	65375.9	65375.9	0.15%	4.70	0.05	4.76	6.82	24	4	11.58	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%	1.27	0.05	1.32	0.88	18	3	2.21	TCLSLT
ABB0712_2-25	25	2	12	62942.3	62942.3	0.07%	3.64	0.04	3.68	4.24	24	4	7.92	TCLSLT
ABB0812_2-25	25	2	12	63121.5	63121.5	0.06%	4.61	0.05	4.67	7.29	18	3	11.96	TCLSLT
ABB0912_2-25	25	2	12	64166.3	64166.3	0.09%	2.96	0.05	3.02	5.18	18	3	8.20	TCLSLT
ABB0018_2-25	25	2	18	87120.3	87120.3	0.03%	3.53	0.13	3.66	4.08	24	3	7.74	TCLSLT
ABB0118_2-25	25	2	18	88769.2	88769.2	0.08%	7.93	0.09	8.02	13.03	32	4	21.06	TCLSLT
ABB0218_2-25	25	2	18	83551.5	83551.5	0.06%	6.33	0.07	6.40	10.30	32	4	16.70	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.06%	7.62	0.08	7.70	27.57	32	4	35.27	TCLSLT
ABB0418_2-25	25	2	18	90861.3	90861.3	0.07%	6.29	0.10	6.39	8.31	24	3	14.71	TCLSLT
ABB0518_2-25	25	2	18	95605.3	95605.3	0.17%	9.48	0.08	9.56	58.07	32	4	67.64	TCLSLT
ABB0618_2-25	25	2	18	83620.4	83620.4	0.00%	2.61	0.09	2.70	2.92	24	3	5.63	TCLSLT
ABB0718_2-25	25	2	18	92472.8	92472.8	0.10%	8.73	0.20	8.94	34.04	32	4	42.98	TCLSLT
ABB0818_2-25	25	2	18	91957.7	91957.7	0.23%	9.94	0.09	10.03	38.59	24	3	48.62	TCLSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0918_2-25	25	2	18	93419.2	93419.2	0.07%	7.65	0.28	7.94	12.68	32	4	20.62	TCLSLT
ABB006_2-50	50	2	6	58864.8	58864.8	0.03%	1.20	0.05	1.25	0.54	10	2	1.80	TCLSLT
ABB016_2-50	50	2	6	60384.7	60384.7	0.02%	1.33	0.03	1.37	1.51	20	4	2.87	TCLSLT
ABB026_2-50	50	2	6	56432.8	56432.8	0.00%	1.57	0.05	1.62	1.69	15	3	3.31	TCLSLT
ABB036_2-50	50	2	6	59472.2	59472.2	0.02%	1.51	0.03	1.55	1.08	10	2	2.63	TCLSLT
ABB046_2-50	50	2	6	61217.2	61217.2	0.00%	1.67	0.06	1.74	1.96	10	2	3.70	TCLSLT
ABB056_2-50	50	2	6	59575.9	59575.9	0.04%	1.23	0.08	1.32	3.18	15	3	4.49	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%	1.41	0.08	1.49	1.56	15	3	3.06	TCLSLT
ABB076_2-50	50	2	6	59125.4	59125.4	0.01%	1.33	0.06	1.39	4.25	15	3	5.64	TCLSLT
ABB086_2-50	50	2	6	60191.9	60191.9	0.01%	1.46	0.05	1.52	0.94	10	2	2.46	TCLSLT
ABB096_2-50	50	2	6	60815.7	60815.7	0.02%	1.46	0.03	1.49	0.97	10	2	2.46	TCLSLT
ABB0012_2-50	50	2	12	117395.7	117395.7	0.00%	2.80	0.09	2.89	2.10	12	2	5.00	TCLSLT
ABB0112_2-50	50	2	12	119977.0	119977.0	0.00%	3.58	0.11	3.70	2.21	18	3	5.91	TCLSLT
ABB0212_2-50	50	2	12	114329.9	114329.9	0.01%	5.33	0.07	5.40	5.73	18	3	11.13	TCLSLT
ABB0312_2-50	50	2	12	120136.0	120136.0	0.03%	4.15	0.08	4.24	5.16	18	3	9.40	TCLSLT
ABB0412_2-50	50	2	12	122609.0	122609.0	0.05%	5.56	0.10	5.67	21.73	18	3	27.40	TCLSLT
ABB0512_2-50	50	2	12	119638.2	119638.2	0.01%	4.00	0.14	4.14	7.60	18	3	11.74	TCLSLT
ABB0612_2-50	50	2	12	113745.9	113745.9	0.01%	3.33	0.07	3.40	3.56	24	4	6.96	TCLSLT
ABB0712_2-50	50	2	12	115044.5	115044.5	0.03%	4.22	0.11	4.33	20.34	24	4	24.67	TCLSLT
ABB0812_2-50	50	2	12	115748.7	115748.7	0.07%	5.67	0.18	5.86	15.81	18	3	21.67	TCLSLT
ABB0912_2-50	50	2	12	122644.1	122644.1	0.02%	5.59	0.10	5.69	6.25	24	4	11.95	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%	5.16	0.12	5.29	4.00	24	3	9.29	TCLSLT
ABB0118_2-50	50	2	18	178901.0	178901.0	0.01%	8.30	0.10	8.41	4.37	16	2	12.78	TCLSLT
ABB0218_2-50	50	2	18	170081.2	170081.2	0.03%	10.90	0.27	11.17	40.34	24	3	51.52	TCLSLT
ABB0318_2-50	50	2	18	181248.6	181248.6	0.01%	8.57	0.21	8.79	21.35	40	5	30.14	TCLSLT
ABB0418_2-50	50	2	18	182970.4	182970.4	0.07%	12.06	0.12	12.19	107.64	24	3	119.83	TCLSLT
ABB0518_2-50	50	2	18	181346.4	181346.4	0.01%	6.35	0.16	6.53	26.15	32	4	32.68	TCLSLT
ABB0618_2-50	50	2	18	171902.8	171902.8	0.00%	7.04	0.13	7.17	8.40	24	3	15.58	TCLSLT
ABB0718_2-50	50	2	18	172680.1	172680.1	0.01%	8.11	0.24	8.36	31.31	32	4	39.67	TCLSLT
ABB0818_2-50	50	2	18	173948.9	173948.9	0.02%	9.65	0.28	9.93	24.20	32	4	34.12	TCLSLT
ABB0918_2-50	50	2	18	183305.7	183305.7	0.02%	10.62	0.13	10.75	62.79	32	4	73.55	TCLSLT
ABB006_4-6	6	4	6	6457.8	6457.8	0.00%	0.50	0.04	0.54	0.38	15	3	0.92	TCLSLT
ABB016_4-6	6	4	6	7430.0	7430.0	0.18%	0.83	0.06	0.89	0.86	15	3	1.75	TCLSLT
ABB026_4-6	6	4	6	7464.6	7464.6	0.02%	0.61	0.02	0.63	0.40	15	3	1.03	TCLSLT
ABB036_4-6	6	4	6	6820.0	6820.0	0.00%	0.59	0.04	0.64	0.45	15	3	1.09	TCLSLT
ABB046_4-6	6	4	6	5696.2	5696.2	0.25%	0.41	0.05	0.46	0.60	20	4	1.06	TCLSLT
ABB056_4-6	6	4	6	8022.7	8022.7	0.04%	0.81	0.04	0.85	0.84	15	3	1.69	TCLSLT
ABB066_4-6	6	4	6	6518.7	6518.7	0.22%	0.73	0.02	0.76	0.15	10	2	0.91	TCLSLT
ABB076_4-6	6	4	6	7826.7	7826.7	0.03%	0.54	0.02	0.56	0.38	15	3	0.94	TCLSLT
ABB086_4-6	6	4	6	5929.3	5929.3	0.21%	0.54	0.02	0.56	0.39	20	4	0.95	TCLSLT
ABB096_4-6	6	4	6	8611.3	8611.3	0.00%	0.74	0.04	0.78	0.41	15	3	1.19	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%	2.03	0.05	2.09	0.82	18	3	2.91	TCLSLT
ABB0112_4-6	6	4	12	15535.5	15535.5	0.03%	3.42	0.09	3.52	2.73	18	3	6.25	TCLSLT
ABB0212_4-6	6	4	12	14793.4	14793.4	0.00%	2.58	0.08	2.66	1.19	18	3	3.86	TCLSLT
ABB0312_4-6	6	4	12	14718.6	14718.6	0.00%	2.45	0.08	2.53	1.01	24	4	3.53	TCLSLT
ABB0412_4-6	6	4	12	13197.0	13197.0	0.00%	2.50	0.11	2.61	3.29	24	4	5.90	TCLSLT
ABB0512_4-6	6	4	12	16267.7	16267.7	0.06%	4.55	0.06	4.62	6.88	24	4	11.50	TCLSLT
ABB0612_4-6	6	4	12	12970.6	12970.6	0.12%	3.47	0.05	3.52	0.54	12	2	4.06	TCLSLT
ABB0712_4-6	6	4	12	14899.0	14899.0	0.10%	2.51	0.04	2.55	0.84	18	3	3.40	TCLSLT
ABB0812_4-6	6	4	12	12597.4	12597.4	0.00%	2.68	0.08	2.76	0.99	18	3	3.75	TCLSLT
ABB0912_4-6	6	4	12	15139.6	15139.6	0.15%	3.84	0.05	3.89	1.51	24	4	5.41	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%	6.28	0.12	6.40	4.60	32	4	11.00	TCLSLT
ABB0118_4-6	6	4	18	22184.6	22184.6	0.12%	11.25	0.10	11.35	10.28	40	5	21.63	TCLSLT
ABB0218_4-6	6	4	18	21739.2	21739.2	0.02%	8.37	0.10	8.47	2.92	24	3	11.39	TCLSLT
ABB0318_4-6	6	4	18	22551.7	22551.7	0.04%	7.05	0.12	7.18	4.76	32	4	11.94	TCLSLT
ABB0418_4-6	6	4	18	20301.9	20301.9	0.09%	5.57	0.06	5.64	4.32	24	3	9.95	TCLSLT
ABB0518_4-6	6	4	18	24090.0	24090.0	0.33%	9.75	0.08	9.83	23.80	32	4	33.63	TCLSLT
ABB0618_4-6	6	4	18	20158.6	20158.6	0.01%	8.82	0.09	8.91	2.64	24	3	11.56	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%	4.84	0.09	4.93	2.17	24	3	7.10	TCLSLT
ABB0818_4-6	6	4	18	18406.8	18406.8	0.00%	6.76	0.09	6.85	2.92	32	4	9.77	TCLSLT
ABB0918_4-6	6	4	18	22391.8	22391.8	0.00%	8.07	0.05	8.12	1.81	24	3	9.93	TCLSLT
ABB006_4-12	12	4	6	13448.6	13448.6	0.02%	0.92	0.04	0.97	1.17	15	3	2.14	TCLSLT
ABB016_4-12	12	4	6	15659.3	15659.3	0.06%	1.22	0.06	1.28	2.75	20	4	4.03	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%	1.18	0.03	1.21	1.04	15	3	2.25	TCLSLT
ABB036_4-12	12	4	6	12491.1	12491.1	0.19%	1.11	0.02	1.14	0.75	10	2	1.89	TCLSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB046_4-12	12	4	6	14515.4	14515.4	0.22%	0.98	0.05	1.03	1.36	15	3	2.39	TCLSLT
ABB056_4-12	12	4	6	14352.4	14352.4	0.08%	0.88	0.05	0.93	2.71	15	3	3.64	TCLSLT
ABB066_4-12	12	4	6	12712.5	12712.5	0.12%	0.76	0.03	0.79	0.30	10	2	1.10	TCLSLT
ABB076_4-12	12	4	6	12646.6	12646.6	0.32%	0.97	0.04	1.01	0.54	10	2	1.55	TCLSLT
ABB086_4-12	12	4	6	14771.6	14771.6	0.01%	1.12	0.03	1.16	0.76	15	3	1.92	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%	0.93	0.05	0.98	1.98	15	3	2.96	TCLSLT
ABB0012_4-12	12	4	12	25222.5	25222.5	0.30%	4.21	0.09	4.31	22.73	24	4	27.04	TCLSLT
ABB0112_4-12	12	4	12	29045.7	29045.7	0.44%	6.83	0.16	7.00	51.03	30	5	58.03	TCLSLT
ABB0212_4-12	12	4	12	26757.0	26757.0	0.02%	4.86	0.06	4.92	3.73	18	3	8.65	TCLSLT
ABB0312_4-12	12	4	12	25879.3	25879.3	0.28%	5.06	0.09	5.14	6.14	18	3	11.29	TCLSLT
ABB0412_4-12	12	4	12	27625.6	27625.6	0.10%	4.29	0.08	4.37	3.99	24	4	8.36	TCLSLT
ABB0512_4-12	12	4	12	28284.5	28284.5	0.33%	3.29	0.07	3.36	24.20	24	4	27.57	TCLSLT
ABB0612_4-12	12	4	12	24765.6	24765.6	0.05%	1.75	0.07	1.82	0.91	12	2	2.73	TCLSLT
ABB0712_4-12	12	4	12	26648.0	26648.0	0.01%	3.04	0.10	3.15	6.71	30	5	9.86	TCLSLT
ABB0812_4-12	12	4	12	28378.6	28378.6	0.02%	5.46	0.08	5.54	3.68	24	4	9.22	TCLSLT
ABB0912_4-12	12	4	12	29070.7	29070.7	0.58%	4.84	0.06	4.90	49.50	24	4	54.41	TCLSLT
ABB0018_4-12	12	4	18	38888.6	38888.6	0.21%	10.51	0.11	10.63	44.53	40	5	55.16	TCLSLT
ABB0118_4-12	12	4	18	42634.5	42634.5	0.31%	14.42	0.13	14.55	104.03	40	5	118.58	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.02%	9.75	0.11	9.87	8.91	16	2	18.78	TCLSLT
ABB0318_4-12	12	4	18	40321.0	40321.0	0.45%	11.74	0.10	11.84	85.95	32	4	97.79	TCLSLT
ABB0418_4-12	12	4	18	41075.8	41075.8	0.12%	8.01	0.14	8.15	27.86	32	4	36.01	TCLSLT
ABB0518_4-12	12	4	18	41467.1	41467.1	0.28%	8.85	0.11	8.96	49.35	40	5	58.31	TCLSLT
ABB0618_4-12	12	4	18	37402.2	37402.2	0.02%	5.14	0.09	5.23	7.55	40	5	12.78	TCLSLT
ABB0718_4-12	12	4	18	41744.8	41744.8	0.30%	9.41	0.19	9.60	28.47	24	3	38.08	TCLSLT
ABB0818_4-12	12	4	18	43238.2	43238.2	0.25%	11.31	0.17	11.48	16.03	32	4	27.51	TCLSLT
ABB0918_4-12	12	4	18	42152.0	42152.0	0.47%	11.37	0.13	11.50	56.86	32	4	68.37	TCLSLT
ABB006_4-25	25	4	6	25710.3	25710.3	0.01%	1.51	0.05	1.56	1.47	15	3	3.03	TCLSLT
ABB016_4-25	25	4	6	29631.1	29631.1	0.02%	1.58	0.06	1.65	2.06	20	4	3.71	TCLSLT
ABB026_4-25	25	4	6	27896.0	27896.0	0.15%	2.20	0.11	2.31	14.40	20	4	16.71	TCLSLT
ABB036_4-25	25	4	6	26316.5	26316.5	0.09%	2.14	0.08	2.22	7.49	20	4	9.71	TCLSLT
ABB046_4-25	25	4	6	26810.4	26810.4	0.19%	1.03	0.09	1.12	1.50	15	3	2.62	TCLSLT
ABB056_4-25	25	4	6	30269.3	30269.3	0.00%	1.95	0.03	1.99	2.00	15	3	3.98	TCLSLT
ABB066_4-25	25	4	6	25472.9	25472.9	0.00%	1.23	0.06	1.29	0.83	10	2	2.12	TCLSLT
ABB076_4-25	25	4	6	27348.3	27348.3	0.10%	2.09	0.05	2.14	10.42	10	2	12.56	TCLSLT
ABB086_4-25	25	4	6	26350.9	26350.9	0.00%	1.38	0.06	1.44	2.02	20	4	3.47	TCLSLT
ABB096_4-25	25	4	6	28094.5	28094.5	0.06%	2.43	0.05	2.49	4.20	20	4	6.69	TCLSLT
ABB0012_4-25	25	4	12	54091.3	54091.3	0.15%	7.73	0.11	7.84	42.19	24	4	50.03	TCLSLT
ABB0112_4-25	25	4	12	56573.8	56573.8	0.06%	5.24	0.23	5.47	16.03	30	5	21.50	TCLSLT
ABB0212_4-25	25	4	12	53664.7	53664.7	0.25%	7.53	0.45	7.98	35.90	18	3	43.89	TCLSLT
ABB0312_4-25	25	4	12	54476.0	54476.0	0.20%	5.55	0.23	5.79	26.57	24	4	32.37	TCLSLT
ABB0412_4-25	25	4	12	55114.0	55114.0	0.03%	3.80	0.10	3.90	5.42	24	4	9.33	TCLSLT
ABB0512_4-25	25	4	12	57345.6	57345.6	0.10%	5.66	0.24	5.91	19.89	24	4	25.80	TCLSLT
ABB0612_4-25	25	4	12	50870.9	50870.9	0.03%	4.43	0.11	4.54	4.16	24	4	8.71	TCLSLT
ABB0712_4-25	25	4	12	55934.7	55934.7	0.14%	8.89	0.34	9.28	52.91	30	5	62.20	TCLSLT
ABB0812_4-25	25	4	12	54386.7	54386.7	0.10%	4.77	0.09	4.86	23.21	18	3	28.07	TCLSLT
ABB0912_4-25	25	4	12	55269.7	55269.7	0.19%	6.68	0.14	6.82	63.55	30	5	70.37	TCLSLT
ABB0018_4-25	25	4	18	78521.1	78521.1	0.12%	13.47	0.25	13.72	84.99	32	4	98.72	TCLSLT
ABB0118_4-25	25	4	18	84180.2	84180.2	0.07%	10.01	0.41	10.42	43.00	32	4	53.43	TCLSLT
ABB0218_4-25	25	4	18	81449.7	81449.7	0.28%	16.06	0.17	16.24	70.35	16	2	86.59	TCLSLT
ABB0318_4-25	25	4	18	81015.8	81015.8	0.20%	15.66	0.20	15.86	92.22	24	3	108.09	TCLSLT
ABB0418_4-25	25	4	18	83472.4	83472.4	0.00%	6.37	0.17	6.54	9.27	24	3	15.81	TCLSLT
ABB0518_4-25	25	4	18	84704.5	84704.5	0.11%	16.57	0.19	16.76	50.16	32	4	66.92	TCLSLT
ABB0618_4-25	25	4	18	77591.0	77591.0	0.02%	7.17	0.15	7.32	10.09	32	4	17.42	TCLSLT
ABB0718_4-25	25	4	18	83256.3	83256.3	0.20%	14.80	0.22	15.03	93.96	24	3	108.99	TCLSLT
ABB0818_4-25	25	4	18	78759.6	78759.6	0.07%	14.96	0.13	15.09	24.25	24	3	39.35	TCLSLT
ABB0918_4-25	25	4	18	82842.3	82842.3	0.18%	19.77	0.21	19.98	88.69	24	3	108.68	TCLSLT
ABB006_4-50	50	4	6	54796.2	54796.2	0.03%	2.61	0.15	2.76	8.32	20	4	11.08	TCLSLT
ABB016_4-50	50	4	6	55554.2	55554.2	0.02%	2.41	0.09	2.51	7.30	20	4	9.81	TCLSLT
ABB026_4-50	50	4	6	56265.8	56265.8	0.06%	3.89	0.09	3.99	28.36	20	4	32.35	TCLSLT
ABB036_4-50	50	4	6	55561.0	55561.0	0.07%	3.14	0.10	3.24	17.42	20	4	20.67	TCLSLT
ABB046_4-50	50	4	6	57280.2	57280.2	0.09%	3.04	0.10	3.14	46.14	20	4	49.29	TCLSLT
ABB056_4-50	50	4	6	57513.8	57513.8	0.01%	2.46	0.08	2.54	6.81	15	3	9.35	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%	2.89	0.09	2.98	1.33	10	2	4.31	TCLSLT
ABB076_4-50	50	4	6	51871.6	51871.6	0.03%	3.07	0.05	3.12	5.05	15	3	8.18	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%	2.57	0.10	2.67	7.07	20	4	9.75	TCLSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB096_4-50	50	4	6	60297.4	60297.4	0.04%	2.88	0.11	2.99	4.01	15	3	7.01	TCLSLT
ABB0012_4-50	50	4	12	110873.4	110873.4	0.12%	9.21	0.25	9.46	29.20	18	3	38.67	TCLSLT
ABB0112_4-50	50	4	12	108633.3	108633.3	0.03%	9.56	0.13	9.69	21.54	18	3	31.23	TCLSLT
ABB0212_4-50	50	4	12	108291.0	108291.0	0.05%	9.93	0.16	10.10	41.10	18	3	51.20	TCLSLT
ABB0312_4-50	50	4	12	110674.5	110674.5	0.11%	11.03	0.24	11.27	43.77	18	3	55.05	TCLSLT
ABB0412_4-50	50	4	12	110189.3	110189.3	0.10%	10.59	0.20	10.80	39.71	12	2	50.51	TCLSLT
ABB0512_4-50	50	4	12	112154.5	112154.5	0.02%	8.00	0.14	8.14	16.16	24	4	24.30	TCLSLT
ABB0612_4-50	50	4	12	104150.3	104150.3	0.00%	8.50	0.13	8.64	8.26	24	4	16.90	TCLSLT
ABB0712_4-50	50	4	12	107048.3	107048.3	0.09%	14.99	0.13	15.12	43.15	24	4	58.27	TCLSLT
ABB0812_4-50	50	4	12	106698.7	106698.7	0.04%	7.36	0.16	7.53	15.49	24	4	23.02	TCLSLT
ABB0912_4-50	50	4	12	114606.4	114606.4	0.06%	11.15	0.18	11.34	26.41	18	3	37.75	TCLSLT
ABB0018_4-50	50	4	18	160427.9	160427.9	0.05%	17.73	0.31	18.05	59.32	24	3	77.37	TCLSLT
ABB0118_4-50	50	4	18	162042.1	162042.1	0.03%	15.11	0.24	15.35	39.88	32	4	55.24	TCLSLT
ABB0218_4-50	50	4	18	163372.5	163372.5	0.03%	19.69	0.36	20.06	67.50	32	4	87.56	TCLSLT
ABB0318_4-50	50	4	18	163932.4	163936.0	0.09%	24.24	0.71	24.96	142.67	24	3	167.63	TCLSLT
ABB0418_4-50	50	4	18	167284.2	167284.2	0.11%	26.31	0.50	26.81	143.86	24	3	170.68	TCLSLT
ABB0518_4-50	50	4	18	168392.6	168392.6	0.05%	16.60	0.29	16.90	61.08	32	4	77.98	TCLSLT
ABB0618_4-50	50	4	18	156607.8	156607.8	0.05%	12.72	0.43	13.16	43.72	24	3	56.88	TCLSLT
ABB0718_4-50	50	4	18	162363.7	162363.7	0.10%	26.30	0.43	26.74	161.53	32	4	188.27	TCLSLT
ABB0818_4-50	50	4	18	157551.6	157551.6	0.02%	14.15	0.29	14.45	34.98	24	3	49.44	TCLSLT
ABB0918_4-50	50	4	18	168767.1	168767.1	0.04%	22.36	0.40	22.77	77.80	32	4	100.57	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%	1.03	0.04	1.07	0.28	15	3	1.35	TCLSLT
ABB026_6-6	6	6	6	7102.0	7102.0	0.00%	0.99	0.05	1.04	0.41	15	3	1.46	TCLSLT
ABB036_6-6	6	6	6	7644.4	7644.4	0.08%	1.03	0.05	1.07	0.71	20	4	1.78	TCLSLT
ABB046_6-6	6	6	6	8274.6	8274.6	0.13%	1.42	0.05	1.47	0.67	15	3	2.14	TCLSLT
ABB056_6-6	6	6	6	8225.0	8225.0	0.26%	1.25	0.06	1.31	0.48	10	2	1.79	TCLSLT
ABB066_6-6	6	6	6	6872.6	6872.6	0.06%	0.84	0.05	0.88	0.71	15	3	1.60	TCLSLT
ABB076_6-6	6	6	6	7942.5	7942.5	0.00%	1.49	0.06	1.55	0.47	10	2	2.03	TCLSLT
ABB086_6-6	6	6	6	6976.6	6976.6	0.62%	1.36	0.13	1.50	0.59	15	3	2.09	TCLSLT
ABB096_6-6	6	6	6	7796.4	7796.4	0.12%	1.69	0.06	1.75	1.52	20	4	3.27	TCLSLT
ABB0012_6-6	6	6	12	12401.4	12401.4	0.07%	3.12	0.06	3.18	1.27	24	4	4.46	TCLSLT
ABB0212_6-6	6	6	12	14582.1	14582.1	0.00%	6.77	0.20	6.97	2.91	30	5	9.88	TCLSLT
ABB0312_6-6	6	6	12	15078.8	15078.8	0.00%	4.89	0.14	5.03	1.15	18	3	6.18	TCLSLT
ABB0412_6-6	6	6	12	15469.8	15469.8	0.13%	7.36	0.24	7.60	3.61	30	5	11.21	TCLSLT
ABB0512_6-6	6	6	12	15020.3	15020.3	0.01%	4.68	0.10	4.78	1.55	24	4	6.33	TCLSLT
ABB0612_6-6	6	6	12	13133.9	13133.9	0.00%	6.98	0.09	7.07	3.45	18	3	10.52	TCLSLT
ABB0712_6-6	6	6	12	15521.2	15521.2	0.07%	6.09	0.11	6.21	1.42	18	3	7.63	TCLSLT
ABB0812_6-6	6	6	12	13087.6	13087.6	0.55%	8.79	0.24	9.03	4.66	18	3	13.70	TCLSLT
ABB0912_6-6	6	6	12	14809.9	14809.9	0.25%	8.88	0.17	9.05	5.17	24	4	14.22	TCLSLT
ABB0018_6-6	6	6	18	18384.6	18384.6	0.00%	10.22	0.12	10.34	1.92	24	3	12.27	TCLSLT
ABB0218_6-6	6	6	18	20319.5	20319.5	0.01%	16.34	0.22	16.56	3.06	32	4	19.63	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%	14.05	0.13	14.18	2.76	24	3	16.94	TCLSLT
ABB0418_6-6	6	6	18	23163.1	23163.1	0.07%	22.10	0.34	22.44	16.08	40	5	38.52	TCLSLT
ABB0518_6-6	6	6	18	22884.7	22884.7	0.03%	12.96	0.18	13.14	8.42	40	5	21.57	TCLSLT
ABB0618_6-6	6	6	18	20657.1	20657.1	0.01%	14.76	0.15	14.92	11.21	32	4	26.13	TCLSLT
ABB0718_6-6	6	6	18	22435.9	22435.9	0.07%	15.79	0.19	15.98	3.37	24	3	19.35	TCLSLT
ABB0818_6-6	6	6	18	20819.4	20819.4	0.15%	22.75	0.34	23.08	6.59	32	4	29.68	TCLSLT
ABB0918_6-6	6	6	18	22345.7	22345.7	0.00%	26.93	0.27	27.21	26.51	32	4	53.72	TCLSLT
ABB006_6-12	12	6	6	12948.9	12948.9	0.17%	1.74	0.06	1.80	2.31	15	3	4.11	TCLSLT
ABB016_6-12	12	6	6	13331.5	13331.5	0.01%	1.83	0.12	1.96	3.94	20	4	5.90	TCLSLT
ABB026_6-12	12	6	6	12238.9	12238.9	0.00%	1.45	0.08	1.53	2.23	25	5	3.76	TCLSLT
ABB036_6-12	12	6	6	13147.8	13147.8	0.00%	1.30	0.08	1.39	1.17	20	4	2.56	TCLSLT
ABB046_6-12	12	6	6	12862.7	12862.7	0.00%	1.67	0.03	1.71	1.12	15	3	2.84	TCLSLT
ABB056_6-12	12	6	6	12470.5	12470.5	0.08%	1.31	0.09	1.41	0.52	10	2	1.93	TCLSLT
ABB066_6-12	12	6	6	11860.3	11860.3	0.12%	2.34	0.08	2.42	2.20	20	4	4.63	TCLSLT
ABB076_6-12	12	6	6	13876.5	13876.5	0.13%	1.97	0.05	2.02	5.77	20	4	7.79	TCLSLT
ABB086_6-12	12	6	6	13708.0	13708.0	0.00%	2.03	0.05	2.09	2.15	20	4	4.24	TCLSLT
ABB096_6-12	12	6	6	14623.5	14623.5	0.10%	2.09	0.08	2.17	5.43	15	3	7.60	TCLSLT
ABB0012_6-12	12	6	12	24511.4	24511.4	0.11%	7.68	0.12	7.80	5.11	24	4	12.92	TCLSLT
ABB0112_6-12	12	6	12	26014.2	26014.2	0.00%	5.56	0.12	5.69	13.26	24	4	18.95	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%	7.55	0.20	7.76	15.20	18	3	22.96	TCLSLT
ABB0312_6-12	12	6	12	26928.0	26928.0	0.03%	5.00	0.34	5.34	9.86	24	4	15.21	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%	4.24	0.12	4.36	4.90	24	4	9.26	TCLSLT
ABB0512_6-12	12	6	12	26648.1	26648.1	0.00%	5.76	0.28	6.04	5.72	24	4	11.76	TCLSLT
ABB0612_6-12	12	6	12	23924.9	23924.9	0.10%	6.91	0.10	7.01	5.45	24	4	12.46	TCLSLT

Continua na Próxima Página

Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0712_6-12	12	6	12	28633.2	28633.2	0.43%	9.59	0.24	9.83	48.22	24	4	58.05	TCLSLT
ABB0812_6-12	12	6	12	26515.1	26515.1	0.41%	7.44	0.22	7.67	16.62	24	4	24.29	TCLSLT
ABB0912_6-12	12	6	12	27760.0	27760.0	0.13%	7.21	0.13	7.34	13.31	30	5	20.66	TCLSLT
ABB0018_6-12	12	6	18	36870.9	36870.9	0.00%	12.72	0.19	12.91	11.11	24	3	24.02	TCLSLT
ABB0118_6-12	12	6	18	41720.2	41720.2	0.12%	26.11	0.29	26.39	24.14	24	3	50.53	TCLSLT
ABB0218_6-12	12	6	18	37568.2	37568.2	0.28%	13.64	0.16	13.80	62.01	24	3	75.81	TCLSLT
ABB0318_6-12	12	6	18	38932.8	38932.8	0.02%	12.85	0.26	13.11	9.39	24	3	22.50	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%	8.25	0.16	8.41	11.03	32	4	19.45	TCLSLT
ABB0518_6-12	12	6	18	41016.7	41016.7	0.08%	12.93	0.51	13.44	28.29	24	3	41.73	TCLSLT
ABB0618_6-12	12	6	18	37907.8	37907.8	0.18%	17.93	0.22	18.15	50.96	32	4	69.11	TCLSLT
ABB0718_6-12	12	6	18	42284.2	42284.2	0.39%	22.03	0.23	22.26	122.66	40	5	144.92	TCLSLT
ABB0818_6-12	12	6	18	40298.4	40298.4	0.50%	27.19	0.24	27.44	123.36	24	3	150.81	TCLSLT
ABB0918_6-12	12	6	18	41855.4	41855.4	0.27%	24.86	0.24	25.10	72.11	32	4	97.22	TCLSLT
ABB006_6-25	25	6	6	25932.1	25932.1	0.08%	3.29	0.11	3.40	32.00	20	4	35.40	TCLSLT
ABB016_6-25	25	6	6	25667.4	25667.4	0.27%	3.03	0.11	3.14	36.29	20	4	39.44	TCLSLT
ABB026_6-25	25	6	6	26965.5	26965.5	0.08%	2.45	0.07	2.52	7.57	20	4	10.09	TCLSLT
ABB036_6-25	25	6	6	27206.7	27206.7	0.23%	4.25	0.05	4.31	31.90	15	3	36.22	TCLSLT
ABB046_6-25	25	6	6	28820.1	28820.1	0.21%	4.36	0.15	4.51	36.81	15	3	41.32	TCLSLT
ABB056_6-25	25	6	6	26531.0	26531.0	0.08%	3.14	0.06	3.20	20.39	20	4	23.60	TCLSLT
ABB066_6-25	25	6	6	25479.1	25479.1	0.00%	1.86	0.10	1.96	3.52	15	3	5.48	TCLSLT
ABB076_6-25	25	6	6	28155.1	28155.1	0.07%	3.14	0.06	3.20	5.93	20	4	9.13	TCLSLT
ABB086_6-25	25	6	6	26890.8	26890.8	0.07%	3.66	0.10	3.76	28.74	15	3	32.49	TCLSLT
ABB096_6-25	25	6	6	26571.2	26571.2	0.00%	3.00	0.13	3.13	3.35	15	3	6.49	TCLSLT
ABB0012_6-25	25	6	12	52884.9	52884.9	0.32%	10.93	0.14	11.07	79.46	24	4	90.53	TCLSLT
ABB0112_6-25	25	6	12	53096.5	53096.5	0.30%	13.19	0.59	13.78	79.18	18	3	92.96	TCLSLT
ABB0212_6-25	25	6	12	54324.9	54324.9	0.18%	8.74	0.15	8.89	32.70	18	3	41.60	TCLSLT
ABB0312_6-25	25	6	12	53164.5	53164.5	0.48%	16.07	0.34	16.41	200.19	30	5	216.61	TCLSLT
ABB0412_6-25	25	6	12	56543.6	56543.6	0.41%	13.22	0.20	13.42	107.40	18	3	120.83	TCLSLT
ABB0512_6-25	25	6	12	52155.3	52155.3	0.20%	13.71	0.20	13.92	70.15	30	5	84.07	TCLSLT
ABB0612_6-25	25	6	12	51231.1	51231.1	0.02%	6.38	0.16	6.55	12.91	24	4	19.46	TCLSLT
ABB0712_6-25	25	6	12	53131.3	53131.3	0.18%	16.12	0.18	16.30	77.76	30	5	94.06	TCLSLT
ABB0812_6-25	25	6	12	51573.8	51573.8	0.16%	9.84	0.47	10.32	40.27	24	4	50.59	TCLSLT
ABB0912_6-25	25	6	12	54004.3	54004.3	0.13%	11.37	0.22	11.59	50.16	24	4	61.76	TCLSLT
ABB0018_6-25	25	6	18	77147.4	77147.4	0.35%	31.45	0.43	31.88	235.27	32	4	267.16	TCLSLT
ABB0118_6-25	25	6	18	80086.2	80086.2	0.35%	26.99	0.49	27.48	177.56	24	3	205.05	TCLSLT
ABB0218_6-25	25	6	18	82278.7	82278.7	0.30%	30.11	0.37	30.49	162.17	24	3	192.66	TCLSLT
ABB0318_6-25	25	6	18	80874.8	80874.8	0.57%	37.00	0.42	37.42	400.45	40	5	437.88	TCLSLT
ABB0418_6-25	25	6	18	85536.4	85536.4	0.21%	26.59	0.34	26.94	349.65	40	5	376.59	TCLSLT
ABB0518_6-25	25	6	18	81541.0	81541.0	0.26%	23.62	0.36	23.98	145.74	24	3	169.73	TCLSLT
ABB0618_6-25	25	6	18	76580.3	76580.3	0.04%	10.73	0.24	10.97	37.88	24	3	48.86	TCLSLT
ABB0718_6-25	25	6	18	78301.1	78301.1	0.21%	29.75	0.34	30.10	367.13	56	7	397.23	TCLSLT
ABB0818_6-25	25	6	18	75620.9	75620.9	0.15%	18.27	0.36	18.63	101.06	24	3	119.70	TCLSLT
ABB0918_6-25	25	6	18	81831.6	81831.6	0.14%	24.65	0.46	25.11	124.30	24	3	149.41	TCLSLT
ABB006_6-50	50	6	6	50831.8	50831.8	0.06%	5.43	0.58	6.01	27.61	15	3	33.62	TCLSLT
ABB016_6-50	50	6	6	50971.6	50971.6	0.10%	4.16	0.16	4.32	30.48	10	2	34.80	TCLSLT
ABB026_6-50	50	6	6	52527.7	52527.7	0.10%	5.34	0.13	5.47	56.47	20	4	61.94	TCLSLT
ABB036_6-50	50	6	6	51905.6	51905.6	0.02%	3.79	0.12	3.91	18.51	15	3	22.42	TCLSLT
ABB046_6-50	50	6	6	54381.9	54381.9	0.13%	6.36	0.40	6.76	67.88	20	4	74.65	TCLSLT
ABB056_6-50	50	6	6	53099.3	53099.3	0.10%	4.76	0.21	4.98	33.73	20	4	38.71	TCLSLT
ABB066_6-50	50	6	6	52435.3	52435.3	0.16%	5.59	0.14	5.74	66.00	15	3	71.74	TCLSLT
ABB076_6-50	50	6	6	54130.4	54130.4	0.00%	3.74	0.09	3.83	6.37	20	4	10.21	TCLSLT
ABB086_6-50	50	6	6	51222.2	51222.2	0.05%	4.09	0.14	4.23	55.46	30	6	59.70	TCLSLT
ABB096_6-50	50	6	6	50928.1	50928.1	0.10%	3.95	0.17	4.12	28.73	15	3	32.86	TCLSLT
ABB0012_6-50	50	6	12	102881.6	102881.6	0.14%	17.03	0.33	17.37	96.50	30	5	113.87	TCLSLT
ABB0112_6-50	50	6	12	101947.4	101947.4	0.11%	25.25	0.35	25.61	79.91	24	4	105.52	TCLSLT
ABB0212_6-50	50	6	12	105755.9	105755.9	0.18%	16.66	0.36	17.02	212.99	30	5	230.01	TCLSLT
ABB0312_6-50	50	6	12	103038.3	103038.3	0.13%	17.67	0.25	17.92	80.25	18	3	98.18	TCLSLT
ABB0412_6-50	50	6	12	110381.2	110381.2	0.18%	26.94	0.72	27.66	149.38	24	4	177.05	TCLSLT
ABB0512_6-50	50	6	12	105925.0	105925.0	0.11%	15.39	0.43	15.83	59.89	18	3	75.71	TCLSLT
ABB0612_6-50	50	6	12	102968.4	102968.4	0.26%	22.31	0.40	22.71	342.82	48	8	365.53	TCLSLT
ABB0712_6-50	50	6	12	107929.2	107929.2	0.13%	13.53	0.26	13.80	87.50	18	3	101.30	TCLSLT
ABB0812_6-50	50	6	12	100315.2	100315.2	0.12%	14.69	0.39	15.09	61.67	18	3	76.76	TCLSLT
ABB0912_6-50	50	6	12	102811.8	102811.8	0.13%	16.20	0.48	16.68	61.55	18	3	78.23	TCLSLT
ABB0018_6-50	50	6	18	153489.6	153489.6	0.12%	44.85	0.61	45.47	325.98	40	5	371.45	TCLSLT
ABB0118_6-50	50	6	18	151595.2	151595.2	0.10%	52.76	1.18	53.94	253.54	40	5	307.49	TCLSLT

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Tabela III - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0218_6-50	50	6	18	155268.0	155268.0	0.15%	39.88	0.40	40.29	220.74	24	3	261.04	TCLSLT
ABB0318_6-50	50	6	18	154876.2	154876.2	0.15%	39.48	1.12	40.60	272.63	32	4	313.24	TCLSLT
ABB0418_6-50	50	6	18	165807.0	165852.5	0.21%	50.16	0.64	50.81	314.26	32	4	365.08	TCLSLT
ABB0518_6-50	50	6	18	156247.0	156247.0	0.25%	43.01	0.67	43.69	371.46	40	5	415.16	TCLSLT
ABB0618_6-50	50	6	18	155521.4	155521.4	0.24%	59.98	1.11	61.09	298.86	32	4	359.96	TCLSLT
ABB0718_6-50	50	6	18	159468.6	159468.6	0.06%	39.20	0.59	39.79	163.81	32	4	203.61	TCLSLT
ABB0818_6-50	50	6	18	151788.3	151788.3	0.18%	34.64	1.10	35.75	195.52	24	3	231.28	TCLSLT
ABB0918_6-50	50	6	18	154664.0	154664.0	0.10%	33.61	0.61	34.22	247.81	32	4	282.04	TCLSLT

Tabela IV: Resultados por instância ($m/r/n$) - $HCGTHFO_{din}$

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6	13492.3	13492.3	0.00%	0.27	0.02	0.29	0.23	15	3	0.52	NCHSHT
NAA016_2-6	6	2	6	10970.8	10970.8	1.17%	0.29	0.02	0.31	0.11	10	2	0.42	NCHSHT
NAA026_2-6	6	2	6	14351.4	14351.4	0.52%	0.24	0.02	0.27	0.14	10	2	0.41	NCHSHT
NAA036_2-6	6	2	6	14599.2	14599.2	0.05%	0.32	0.02	0.34	0.13	10	2	0.47	NCHSHT
NAA046_2-6	6	2	6	15408.5	15408.5	0.14%	0.28	0.07	0.36	0.24	10	2	0.60	NCHSHT
NAA056_2-6	6	2	6	16142.8	16142.8	0.00%	0.25	0.01	0.27	0.10	10	2	0.37	NCHSHT
NAA066_2-6	6	2	6	15326.3	15326.3	0.00%	0.44	0.02	0.46	0.17	10	2	0.63	NCHSHT
NAA076_2-6	6	2	6	16379.4	16379.4	1.60%	0.26	0.02	0.28	0.44	15	3	0.72	NCHSHT
NAA086_2-6	6	2	6	12654.2	12654.2	0.12%	0.26	0.02	0.28	0.10	10	2	0.38	NCHSHT
NAA096_2-6	6	2	6	12694.6	12694.6	0.00%	0.25	0.02	0.27	0.17	10	2	0.44	NCHSHT
NAA0012_2-6	6	2	12	23885.9	23885.9	0.46%	1.24	0.02	1.27	2.28	57	10	3.55	NCHSHT
NAA0112_2-6	6	2	12	22910.7	22910.7	0.00%	1.14	0.02	1.17	1.43	35	6	2.60	NCHSHT
NAA0212_2-6	6	2	12	26280.2	26280.2	0.18%	0.89	0.03	0.92	2.42	68	12	3.34	NCHSHT
NAA0312_2-6	6	2	12	26272.5	26272.5	1.83%	0.82	0.03	0.85	1.76	45	8	2.62	NCHSHT
NAA0412_2-6	6	2	12	25607.8	25607.8	0.56%	1.49	0.03	1.52	3.93	57	10	5.46	NCHSHT
NAA0512_2-6	6	2	12	29866.0	29866.0	0.25%	1.01	0.05	1.06	1.16	34	6	2.22	NCHSHT
NAA0612_2-6	6	2	12	27011.8	27011.8	0.10%	0.81	0.02	0.83	2.19	51	9	3.02	NCHSHT
NAA0712_2-6	6	2	12	26455.5	26455.5	0.04%	1.13	0.02	1.16	1.09	29	5	2.24	NCHSHT
NAA0812_2-6	6	2	12	21729.2	21729.2	0.44%	1.03	0.02	1.06	0.68	28	5	1.74	NCHSHT
NAA0912_2-6	6	2	12	26228.7	26228.7	0.05%	0.83	0.03	0.86	2.47	28	5	3.33	NCHSHT
NAA0018_2-6	6	2	18	32367.8	32367.8	0.25%	3.57	0.04	3.61	6.48	74	10	10.09	NCHSHT
NAA0118_2-6	6	2	18	33362.3	33362.3	1.24%	3.72	0.04	3.76	6.52	60	8	10.29	NCHSHT
NAA0218_2-6	6	2	18	38705.2	38705.2	0.35%	2.39	0.06	2.44	2.10	38	5	4.54	NCHSHT
NAA0318_2-6	6	2	18	39138.5	39138.5	0.25%	2.88	0.05	2.93	2.41	38	5	5.35	NCHSHT
NAA0418_2-6	6	2	18	36321.7	36321.7	1.76%	3.33	0.04	3.37	5.85	44	6	9.22	NCHSHT
NAA0518_2-6	6	2	18	41562.0	41562.0	0.44%	3.00	0.03	3.04	3.32	60	8	6.35	NCHSHT
NAA0618_2-6	6	2	18	38094.4	38094.4	0.29%	2.13	0.04	2.18	3.56	60	8	5.73	NCHSHT
NAA0718_2-6	6	2	18	38204.8	38204.8	0.22%	2.97	0.04	3.01	3.32	44	6	6.33	NCHSHT
NAA0818_2-6	6	2	18	31343.0	31343.0	0.29%	2.11	0.04	2.15	2.00	52	7	4.15	NCHSHT
NAA0918_2-6	6	2	18	35219.3	35219.3	0.18%	1.75	0.05	1.80	2.25	52	7	4.05	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%	0.47	0.02	0.49	0.19	10	2	0.68	NCHSHT
NAA016_2-12	12	2	6	23669.7	23669.7	0.01%	0.51	0.03	0.53	0.53	15	3	1.07	NCHSHT
NAA026_2-12	12	2	6	24780.0	24780.0	0.21%	0.47	0.02	0.49	0.28	10	2	0.76	NCHSHT
NAA036_2-12	12	2	6	29174.4	29174.4	0.73%	0.39	0.03	0.42	0.40	15	3	0.82	NCHSHT
NAA046_2-12	12	2	6	24974.7	24974.7	0.71%	0.44	0.03	0.47	0.47	20	4	0.94	NCHSHT
NAA056_2-12	12	2	6	28598.2	28598.2	0.29%	0.55	0.03	0.58	0.54	10	2	1.12	NCHSHT
NAA066_2-12	12	2	6	25050.2	25050.2	0.73%	0.46	0.03	0.48	0.51	15	3	0.99	NCHSHT
NAA076_2-12	12	2	6	25619.8	25619.8	2.42%	0.37	0.03	0.40	0.45	15	3	0.85	NCHSHT
NAA086_2-12	12	2	6	22886.6	22886.6	0.00%	0.38	0.02	0.40	0.18	10	2	0.58	NCHSHT
NAA096_2-12	12	2	6	27108.9	27108.9	2.24%	0.43	0.03	0.45	0.42	10	2	0.87	NCHSHT
NAA0012_2-12	12	2	12	40832.3	40832.3	1.07%	1.27	0.04	1.31	1.62	34	6	2.92	NCHSHT
NAA0112_2-12	12	2	12	41319.6	41319.6	0.09%	1.41	0.03	1.44	1.82	40	7	3.26	NCHSHT
NAA0212_2-12	12	2	12	43586.3	43586.3	1.32%	1.67	0.04	1.71	4.51	40	7	6.21	NCHSHT
NAA0312_2-12	12	2	12	52560.1	52560.1	0.25%	1.76	0.04	1.81	3.92	51	9	5.73	NCHSHT
NAA0412_2-12	12	2	12	45294.7	45294.7	0.93%	1.48	0.05	1.53	3.16	34	6	4.68	NCHSHT
NAA0512_2-12	12	2	12	51626.4	51626.4	0.44%	1.97	0.06	2.03	16.65	79	14	18.68	NCHSHT
NAA0612_2-12	12	2	12	45137.4	45137.4	0.56%	1.59	0.06	1.65	2.85	40	7	4.50	NCHSHT
NAA0712_2-12	12	2	12	46763.3	46763.3	0.21%	1.26	0.03	1.29	2.58	39	7	3.87	NCHSHT
NAA0812_2-12	12	2	12	41811.9	41811.9	0.68%	1.41	0.04	1.45	2.26	40	7	3.72	NCHSHT
NAA0912_2-12	12	2	12	49921.1	49921.1	0.63%	1.94	0.04	1.98	5.33	34	6	7.31	NCHSHT
NAA0018_2-12	12	2	18	59821.2	59821.2	0.17%	3.73	0.04	3.78	9.09	74	10	12.87	NCHSHT
NAA0118_2-12	12	2	18	61500.7	61500.7	0.26%	3.34	0.05	3.40	4.23	38	5	7.62	NCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0218_2-12	12	2	18	64693.6	64693.6	0.27%	4.61	0.04	4.66	8.62	52	7	13.28	NCHSHT
NAA0318_2-12	12	2	18	74690.8	74690.8	0.07%	3.20	0.08	3.28	11.31	90	12	14.59	NCHSHT
NAA0418_2-12	12	2	18	67355.3	67355.3	0.52%	4.18	0.06	4.24	13.20	84	11	17.44	NCHSHT
NAA0518_2-12	12	2	18	73716.5	73716.5	0.36%	4.11	0.10	4.21	36.44	74	10	40.65	NCHSHT
NAA0618_2-12	12	2	18	65111.5	65111.5	0.36%	2.84	0.06	2.90	7.48	44	6	10.39	NCHSHT
NAA0718_2-12	12	2	18	67467.6	67467.6	0.23%	2.21	0.06	2.26	3.17	38	5	5.44	NCHSHT
NAA0818_2-12	12	2	18	64221.4	64221.4	0.41%	2.76	0.06	2.82	9.04	52	7	11.86	NCHSHT
NAA0918_2-12	12	2	18	72369.4	72369.4	0.48%	3.95	0.07	4.02	14.29	52	7	18.31	NCHSHT
NAA006_2-25	25	2	6	47826.0	47826.0	0.37%	0.75	0.03	0.78	0.85	10	2	1.63	NCHSHT
NAA016_2-25	25	2	6	48929.9	48929.9	0.52%	0.66	0.03	0.69	0.38	10	2	1.07	NCHSHT
NAA026_2-25	25	2	6	51063.5	51063.5	0.57%	0.94	0.05	0.98	1.83	20	4	2.82	NCHSHT
NAA036_2-25	25	2	6	53015.2	53015.2	0.67%	0.78	0.04	0.81	0.66	10	2	1.47	NCHSHT
NAA046_2-25	25	2	6	53854.7	53854.7	0.59%	0.83	0.04	0.87	2.39	15	3	3.26	NCHSHT
NAA056_2-25	25	2	6	56760.5	56760.5	0.65%	1.02	0.03	1.05	1.81	15	3	2.87	NCHSHT
NAA066_2-25	25	2	6	46078.7	46078.7	0.28%	0.73	0.05	0.78	0.67	15	3	1.45	NCHSHT
NAA076_2-25	25	2	6	51629.7	51629.7	0.58%	0.82	0.03	0.85	1.04	15	3	1.89	NCHSHT
NAA086_2-25	25	2	6	54043.7	54043.7	0.35%	0.82	0.03	0.85	2.45	15	3	3.31	NCHSHT
NAA096_2-25	25	2	6	59064.2	59064.2	0.21%	0.84	0.03	0.88	0.73	10	2	1.60	NCHSHT
NAA0012_2-25	25	2	12	88835.6	88835.6	0.43%	2.87	0.09	2.96	17.01	46	8	19.97	NCHSHT
NAA0112_2-25	25	2	12	93814.9	93814.9	0.06%	3.06	0.11	3.16	11.98	52	9	15.15	NCHSHT
NAA0212_2-25	25	2	12	90775.8	90775.8	0.57%	2.61	0.11	2.72	21.84	79	14	24.56	NCHSHT
NAA0312_2-25	25	2	12	94633.7	94633.7	0.45%	2.66	0.10	2.75	14.13	40	7	16.88	NCHSHT
NAA0412_2-25	25	2	12	93029.4	93029.4	0.19%	2.46	0.06	2.52	5.05	40	7	7.57	NCHSHT
NAA0512_2-25	25	2	12	105871.9	105871.9	0.46%	3.50	0.06	3.55	49.00	80	14	52.56	NCHSHT
NAA0612_2-25	25	2	12	89981.4	89981.4	0.24%	2.76	0.06	2.81	12.93	68	12	15.74	NCHSHT
NAA0712_2-25	25	2	12	96087.1	96087.1	0.25%	2.92	0.06	2.98	17.50	51	9	20.48	NCHSHT
NAA0812_2-25	25	2	12	98308.5	98308.5	0.45%	3.66	0.04	3.70	27.07	57	10	30.77	NCHSHT
NAA0912_2-25	25	2	12	103675.5	103675.5	0.61%	2.64	0.08	2.72	17.45	57	10	20.17	NCHSHT
NAA0018_2-25	25	2	18	129148.7	129148.7	0.32%	6.32	0.11	6.43	47.84	74	10	54.27	NCHSHT
NAA0118_2-25	25	2	18	132657.7	132657.7	0.14%	4.97	0.08	5.05	14.35	38	5	19.41	NCHSHT
NAA0218_2-25	25	2	18	130149.3	130149.3	0.30%	7.81	0.10	7.91	48.98	66	9	56.90	NCHSHT
NAA0318_2-25	25	2	18	142317.0	142317.0	0.24%	4.96	0.10	5.06	50.32	46	6	55.39	NCHSHT
NAA0418_2-25	25	2	18	136827.3	136827.3	0.40%	7.05	0.07	7.13	29.41	38	5	36.55	NCHSHT
NAA0518_2-25	25	2	18	148971.5	148971.5	0.52%	6.93	0.21	7.14	69.11	74	10	76.25	NCHSHT
NAA0618_2-25	25	2	18	127054.6	127054.6	0.25%	5.05	0.07	5.12	16.64	38	5	21.76	NCHSHT
NAA0718_2-25	25	2	18	140788.6	140788.6	0.36%	7.63	0.07	7.70	54.01	52	7	61.71	NCHSHT
NAA0818_2-25	25	2	18	139375.1	139375.1	0.29%	6.82	0.12	6.94	48.42	60	8	55.37	NCHSHT
NAA0918_2-25	25	2	18	148223.5	148223.5	0.35%	7.57	0.10	7.67	57.13	82	11	64.80	NCHSHT
NAA006_2-50	50	2	6	94215.0	94215.0	0.23%	1.47	0.03	1.50	1.41	10	2	2.92	NCHSHT
NAA016_2-50	50	2	6	98214.3	98214.3	0.32%	1.47	0.05	1.53	2.74	15	3	4.27	NCHSHT
NAA026_2-50	50	2	6	94748.8	94748.8	0.34%	1.30	0.05	1.36	1.58	10	2	2.94	NCHSHT
NAA036_2-50	50	2	6	102507.5	102507.5	0.02%	1.31	0.08	1.38	1.73	15	3	3.12	NCHSHT
NAA046_2-50	50	2	6	106711.9	106711.9	0.18%	1.73	0.09	1.82	6.31	25	5	8.13	NCHSHT
NAA056_2-50	50	2	6	104564.7	104564.7	0.16%	1.33	0.07	1.41	6.42	25	5	7.83	NCHSHT
NAA066_2-50	50	2	6	94702.8	94702.8	0.29%	1.34	0.07	1.41	2.15	10	2	3.56	NCHSHT
NAA076_2-50	50	2	6	101694.7	101694.7	0.30%	1.59	0.08	1.68	5.80	15	3	7.49	NCHSHT
NAA086_2-50	50	2	6	99867.2	99867.2	0.28%	1.57	0.03	1.60	2.62	15	3	4.22	NCHSHT
NAA096_2-50	50	2	6	102938.4	102938.4	0.10%	1.58	0.03	1.61	1.78	15	3	3.39	NCHSHT
NAA0012_2-50	50	2	12	176493.2	176493.2	0.10%	4.13	0.13	4.26	15.68	40	7	19.95	NCHSHT
NAA0112_2-50	50	2	12	184285.9	184285.9	0.08%	4.27	0.13	4.40	23.10	51	9	27.51	NCHSHT
NAA0212_2-50	50	2	12	176239.9	176239.9	0.03%	4.66	0.13	4.79	80.42	91	16	85.21	NCHSHT
NAA0312_2-50	50	2	12	189813.8	189813.8	0.14%	3.62	0.13	3.75	19.70	51	9	23.46	NCHSHT
NAA0412_2-50	50	2	12	194669.4	194669.4	0.34%	5.09	0.08	5.17	71.52	40	7	76.69	NCHSHT
NAA0512_2-50	50	2	12	192617.6	192617.6	0.04%	3.94	0.19	4.13	35.70	51	9	39.83	NCHSHT
NAA0612_2-50	50	2	12	174149.6	174149.6	0.04%	3.59	0.07	3.67	25.93	74	13	29.61	NCHSHT
NAA0712_2-50	50	2	12	184092.3	184092.3	0.12%	5.41	0.09	5.51	49.86	34	6	55.38	NCHSHT
NAA0812_2-50	50	2	12	179350.7	179350.7	0.11%	4.16	0.15	4.31	78.37	57	10	82.67	NCHSHT
NAA0912_2-50	50	2	12	189999.3	189999.3	0.17%	4.81	0.14	4.95	41.74	63	11	46.69	NCHSHT
NAA0018_2-50	50	2	18	259120.4	259120.4	0.05%	7.49	0.17	7.66	63.01	74	10	70.67	NCHSHT
NAA0118_2-50	50	2	18	267822.0	267822.0	0.07%	8.31	0.49	8.80	73.41	68	9	82.21	NCHSHT
NAA0218_2-50	50	2	18	255695.4	255695.4	0.07%	8.94	0.28	9.23	101.14	68	9	110.37	NCHSHT
NAA0318_2-50	50	2	18	279003.6	279003.6	0.09%	8.52	0.14	8.67	88.88	46	6	97.56	NCHSHT
NAA0418_2-50	50	2	18	283434.6	283434.6	0.30%	12.10	0.48	12.58	347.85	114	15	360.44	NCHSHT
NAA0518_2-50	50	2	18	282700.5	282700.5	0.12%	9.41	0.19	9.61	101.91	74	10	111.52	NCHSHT
NAA0618_2-50	50	2	18	255923.4	255923.4	0.07%	8.67	0.15	8.83	115.66	60	8	124.49	NCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0718_2-50	50	2	18	268657.0	268657.0	0.05%	9.61	0.28	9.89	109.24	60	8	119.13	NCHSHT
NAA0818_2-50	50	2	18	262946.9	262946.9	0.08%	9.38	0.26	9.64	92.39	74	10	102.03	NCHSHT
NAA0918_2-50	50	2	18	277517.7	277517.7	0.23%	13.33	0.18	13.51	169.81	104	14	183.33	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%	0.43	0.03	0.46	0.32	20	4	0.78	NCHSHT
NAA016_4-6	6	4	6	11099.4	11099.4	0.00%	0.78	0.03	0.82	0.38	15	3	1.20	NCHSHT
NAA026_4-6	6	4	6	11626.9	11626.9	0.00%	0.59	0.03	0.62	0.19	10	2	0.81	NCHSHT
NAA036_4-6	6	4	6	12249.2	12249.2	0.82%	0.49	0.02	0.51	0.47	20	4	0.99	NCHSHT
NAA046_4-6	6	4	6	9813.3	9813.3	0.72%	0.43	0.04	0.47	0.50	15	3	0.97	NCHSHT
NAA056_4-6	6	4	6	15271.0	15271.0	2.85%	0.51	0.03	0.54	0.38	15	3	0.92	NCHSHT
NAA066_4-6	6	4	6	11991.0	11991.0	2.93%	0.47	0.04	0.51	0.60	15	3	1.11	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%	0.43	0.02	0.45	0.18	15	3	0.63	NCHSHT
NAA086_4-6	6	4	6	9743.5	9743.5	0.68%	0.38	0.04	0.42	0.21	15	3	0.63	NCHSHT
NAA096_4-6	6	4	6	14416.9	14416.9	1.00%	0.45	0.02	0.48	0.13	10	2	0.61	NCHSHT
NAA0012_4-6	6	4	12	17220.4	17220.4	0.00%	1.83	0.04	1.88	1.31	29	5	3.19	NCHSHT
NAA0112_4-6	6	4	12	23555.3	23555.3	0.32%	3.43	0.06	3.49	2.18	29	5	5.67	NCHSHT
NAA0212_4-6	6	4	12	21933.6	21933.6	0.00%	2.92	0.05	2.96	2.83	51	9	5.80	NCHSHT
NAA0312_4-6	6	4	12	24289.6	24289.6	0.00%	2.02	0.06	2.08	2.10	57	10	4.19	NCHSHT
NAA0412_4-6	6	4	12	22450.9	22450.9	3.04%	2.32	0.06	2.38	3.57	46	8	5.95	NCHSHT
NAA0512_4-6	6	4	12	28985.7	28985.7	0.26%	2.50	0.05	2.55	3.40	51	9	5.95	NCHSHT
NAA0612_4-6	6	4	12	21097.4	21097.4	2.51%	1.91	0.05	1.97	1.52	29	5	3.49	NCHSHT
NAA0712_4-6	6	4	12	23512.2	23512.2	0.05%	1.86	0.05	1.91	1.51	40	7	3.42	NCHSHT
NAA0812_4-6	6	4	12	18941.1	18941.1	0.04%	1.88	0.08	1.96	1.68	40	7	3.64	NCHSHT
NAA0912_4-6	6	4	12	25501.7	25501.7	0.64%	2.26	0.04	2.31	1.33	34	6	3.63	NCHSHT
NAA0018_4-6	6	4	18	26633.6	26633.6	0.18%	6.92	0.09	7.01	7.89	52	7	14.90	NCHSHT
NAA0118_4-6	6	4	18	31919.7	31919.7	0.06%	12.14	0.14	12.28	4.94	44	6	17.22	NCHSHT
NAA0218_4-6	6	4	18	31649.9	31649.9	0.12%	7.59	0.14	7.73	6.66	60	8	14.39	NCHSHT
NAA0318_4-6	6	4	18	36788.2	36788.2	0.16%	6.10	0.10	6.20	2.88	52	7	9.08	NCHSHT
NAA0418_4-6	6	4	18	33766.7	33766.7	2.08%	7.24	0.09	7.33	17.59	68	9	24.92	NCHSHT
NAA0518_4-6	6	4	18	41107.8	41107.8	0.00%	8.97	0.09	9.05	4.30	46	6	13.36	NCHSHT
NAA0618_4-6	6	4	18	32234.0	32234.0	0.26%	8.05	0.15	8.20	3.32	38	5	11.52	NCHSHT
NAA0718_4-6	6	4	18	35329.3	35329.3	0.35%	4.48	0.10	4.58	5.16	84	11	9.74	NCHSHT
NAA0818_4-6	6	4	18	27340.4	27340.4	0.55%	5.30	0.12	5.42	6.17	82	11	11.60	NCHSHT
NAA0918_4-6	6	4	18	37664.7	37664.7	1.02%	10.42	0.08	10.50	5.15	52	7	15.65	NCHSHT
NAA006_4-12	12	4	6	19735.5	19735.5	0.00%	0.79	0.03	0.82	1.50	20	4	2.32	NCHSHT
NAA016_4-12	12	4	6	22883.0	22883.0	0.09%	1.05	0.04	1.09	2.23	15	3	3.32	NCHSHT
NAA026_4-12	12	4	6	18491.4	18491.4	0.23%	0.62	0.05	0.67	0.31	15	3	0.98	NCHSHT
NAA036_4-12	12	4	6	20568.0	20568.0	1.90%	0.75	0.03	0.78	0.81	15	3	1.59	NCHSHT
NAA046_4-12	12	4	6	22715.8	22715.8	0.59%	0.87	0.04	0.91	0.74	15	3	1.65	NCHSHT
NAA056_4-12	12	4	6	23601.7	23601.7	0.03%	0.70	0.03	0.73	1.20	20	4	1.94	NCHSHT
NAA066_4-12	12	4	6	20881.7	20881.7	1.50%	0.49	0.03	0.52	0.44	15	3	0.97	NCHSHT
NAA076_4-12	12	4	6	20768.1	20768.1	0.08%	0.73	0.04	0.78	1.45	10	2	2.22	NCHSHT
NAA086_4-12	12	4	6	22408.1	22408.1	0.34%	0.56	0.05	0.61	0.59	15	3	1.20	NCHSHT
NAA096_4-12	12	4	6	22039.2	22039.2	3.12%	0.68	0.03	0.71	0.55	10	2	1.26	NCHSHT
NAA0012_4-12	12	4	12	35771.8	35771.8	0.22%	2.96	0.11	3.07	11.65	63	11	14.73	NCHSHT
NAA0112_4-12	12	4	12	40624.2	40624.2	0.47%	4.47	0.08	4.55	17.95	51	9	22.50	NCHSHT
NAA0212_4-12	12	4	12	37284.6	37284.6	1.20%	2.32	0.09	2.42	11.52	58	10	13.93	NCHSHT
NAA0312_4-12	12	4	12	40090.1	40090.1	0.94%	3.55	0.06	3.61	14.55	62	11	18.16	NCHSHT
NAA0412_4-12	12	4	12	41805.4	41805.4	0.27%	3.11	0.10	3.21	11.69	51	9	14.90	NCHSHT
NAA0512_4-12	12	4	12	45643.2	45643.2	1.78%	3.39	0.08	3.47	38.71	86	15	42.19	NCHSHT
NAA0612_4-12	12	4	12	38790.6	38790.6	0.16%	2.24	0.08	2.32	4.98	51	9	7.30	NCHSHT
NAA0712_4-12	12	4	12	41557.5	41557.5	0.33%	3.16	0.09	3.25	19.42	51	9	22.67	NCHSHT
NAA0812_4-12	12	4	12	41246.7	41246.7	0.13%	1.84	0.06	1.90	1.90	34	6	3.80	NCHSHT
NAA0912_4-12	12	4	12	43577.8	43577.8	0.12%	3.06	0.10	3.16	8.08	40	7	11.24	NCHSHT
NAA0018_4-12	12	4	18	54134.0	54134.0	0.52%	7.92	0.13	8.05	20.12	74	10	28.18	NCHSHT
NAA0118_4-12	12	4	18	59366.3	59366.3	0.55%	11.24	0.13	11.37	43.09	52	7	54.47	NCHSHT
NAA0218_4-12	12	4	18	53500.0	53500.0	0.19%	3.68	0.11	3.80	6.65	52	7	10.45	NCHSHT
NAA0318_4-12	12	4	18	61079.9	61079.9	0.90%	8.75	0.11	8.86	28.25	90	12	37.12	NCHSHT
NAA0418_4-12	12	4	18	61587.4	61587.4	0.56%	9.57	0.15	9.72	50.34	90	12	60.06	NCHSHT
NAA0518_4-12	12	4	18	65763.4	65763.4	1.09%	7.80	0.14	7.94	87.03	120	16	94.97	NCHSHT
NAA0618_4-12	12	4	18	58920.7	58920.7	1.13%	5.66	0.11	5.76	8.11	44	6	13.87	NCHSHT
NAA0718_4-12	12	4	18	64047.9	64047.9	1.00%	7.75	0.17	7.92	56.57	38	5	64.50	NCHSHT
NAA0818_4-12	12	4	18	62690.8	62690.8	0.25%	6.82	0.11	6.93	9.76	60	8	16.68	NCHSHT
NAA0918_4-12	12	4	18	62839.4	62839.4	0.84%	10.77	0.15	10.93	39.43	82	11	50.36	NCHSHT
NAA006_4-25	25	4	6	37050.9	37050.9	0.11%	1.36	0.06	1.43	1.70	20	4	3.12	NCHSHT
NAA016_4-25	25	4	6	45139.0	45139.0	0.29%	1.73	0.11	1.84	7.81	30	6	9.65	NCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA026_4-25	25	4	6	42709.0	42709.0	0.81%	1.50	0.09	1.59	25.87	25	5	27.46	NCHSHT
NAA036_4-25	25	4	6	42428.9	42428.9	1.00%	1.31	0.06	1.38	4.58	15	3	5.95	NCHSHT
NAA046_4-25	25	4	6	43527.6	43527.6	1.61%	1.56	0.11	1.67	6.02	25	5	7.69	NCHSHT
NAA056_4-25	25	4	6	47229.0	47229.0	0.64%	1.43	0.10	1.53	5.49	20	4	7.02	NCHSHT
NAA066_4-25	25	4	6	38369.1	38369.1	1.78%	1.09	0.07	1.16	1.40	20	4	2.57	NCHSHT
NAA076_4-25	25	4	6	42925.7	42925.7	0.47%	1.56	0.12	1.68	15.28	30	6	16.96	NCHSHT
NAA086_4-25	25	4	6	39711.2	39711.2	0.48%	1.40	0.05	1.45	2.32	10	2	3.77	NCHSHT
NAA096_4-25	25	4	6	45774.1	45774.1	1.10%	1.25	0.07	1.32	10.75	20	4	12.06	NCHSHT
NAA0012_4-25	25	4	12	74644.1	74644.1	0.20%	6.49	0.19	6.68	25.97	46	8	32.65	NCHSHT
NAA0112_4-25	25	4	12	82545.2	82545.2	0.48%	5.59	0.12	5.72	32.48	46	8	38.20	NCHSHT
NAA0212_4-25	25	4	12	78251.5	78251.5	0.71%	5.84	0.27	6.11	94.52	51	9	100.64	NCHSHT
NAA0312_4-25	25	4	12	83028.3	83028.3	0.43%	4.34	0.13	4.47	84.18	92	16	88.65	NCHSHT
NAA0412_4-25	25	4	12	83662.5	83662.5	0.68%	4.61	0.13	4.74	98.36	63	11	103.10	NCHSHT
NAA0512_4-25	25	4	12	86205.6	86205.6	0.25%	4.34	0.20	4.54	65.40	69	12	69.94	NCHSHT
NAA0612_4-25	25	4	12	73469.7	73469.7	0.16%	3.74	0.12	3.86	19.71	63	11	23.57	NCHSHT
NAA0712_4-25	25	4	12	83346.8	83346.8	0.35%	4.72	0.22	4.94	65.31	46	8	70.26	NCHSHT
NAA0812_4-25	25	4	12	77857.2	77857.2	0.17%	5.41	0.17	5.58	41.68	63	11	47.26	NCHSHT
NAA0912_4-25	25	4	12	84279.9	84279.9	0.21%	4.03	0.12	4.15	19.13	63	11	23.29	NCHSHT
NAA0018_4-25	25	4	18	108630.0	108630.0	0.32%	11.28	0.28	11.56	101.45	128	17	113.02	NCHSHT
NAA0118_4-25	25	4	18	120570.1	120570.1	0.50%	14.00	0.22	14.22	166.12	98	13	180.34	NCHSHT
NAA0218_4-25	25	4	18	116971.2	116971.2	0.82%	15.69	0.29	15.98	120.78	54	7	136.77	NCHSHT
NAA0318_4-25	25	4	18	121231.4	121231.4	0.44%	15.59	0.26	15.86	41.32	30	4	57.18	NCHSHT
NAA0418_4-25	25	4	18	123548.8	123548.8	0.30%	12.93	0.16	13.09	102.77	112	15	115.87	NCHSHT
NAA0518_4-25	25	4	18	125478.4	125478.4	0.60%	12.63	0.27	12.90	72.58	68	9	85.48	NCHSHT
NAA0618_4-25	25	4	18	110403.7	110403.7	0.13%	7.53	0.15	7.68	50.20	76	10	57.88	NCHSHT
NAA0718_4-25	25	4	18	122137.0	122137.0	0.48%	11.48	0.22	11.71	91.28	68	9	102.99	NCHSHT
NAA0818_4-25	25	4	18	112319.3	112319.3	0.35%	14.55	0.14	14.70	96.28	82	11	110.98	NCHSHT
NAA0918_4-25	25	4	18	124159.6	124159.6	0.24%	10.03	0.27	10.31	33.16	60	8	43.47	NCHSHT
NAA006_4-50	50	4	6	80729.8	80729.8	0.27%	2.45	0.12	2.57	23.03	25	5	25.60	NCHSHT
NAA016_4-50	50	4	6	83572.0	83572.0	0.08%	2.17	0.14	2.31	19.96	25	5	22.27	NCHSHT
NAA026_4-50	50	4	6	85877.7	85877.7	0.31%	2.76	0.15	2.91	17.25	15	3	20.16	NCHSHT
NAA036_4-50	50	4	6	86796.6	86796.6	0.53%	2.81	0.19	3.01	17.04	25	5	20.05	NCHSHT
NAA046_4-50	50	4	6	92798.8	92798.8	0.42%	2.79	0.17	2.96	15.74	15	3	18.70	NCHSHT
NAA056_4-50	50	4	6	87607.9	87607.9	0.37%	2.61	0.16	2.77	18.10	20	4	20.87	NCHSHT
NAA066_4-50	50	4	6	79233.7	79233.7	0.48%	2.20	0.09	2.29	2.47	15	3	4.76	NCHSHT
NAA076_4-50	50	4	6	82554.3	82554.3	0.24%	2.24	0.18	2.42	17.88	20	4	20.30	NCHSHT
NAA086_4-50	50	4	6	82696.2	82696.2	0.60%	2.10	0.13	2.23	8.19	15	3	10.42	NCHSHT
NAA096_4-50	50	4	6	93819.7	93819.7	0.28%	2.02	0.16	2.18	7.17	15	3	9.35	NCHSHT
NAA0012_4-50	50	4	12	158414.0	158414.0	0.14%	7.09	0.59	7.69	110.18	57	10	117.86	NCHSHT
NAA0112_4-50	50	4	12	156508.1	156508.1	0.13%	6.85	0.39	7.25	55.24	46	8	62.50	NCHSHT
NAA0212_4-50	50	4	12	157885.4	157885.4	0.37%	9.28	0.32	9.61	102.41	69	12	112.02	NCHSHT
NAA0312_4-50	50	4	12	165142.7	165142.7	0.15%	7.60	0.65	8.25	149.80	75	13	158.06	NCHSHT
NAA0412_4-50	50	4	12	169421.1	169421.1	0.21%	8.37	0.28	8.65	243.56	115	20	252.21	NCHSHT
NAA0512_4-50	50	4	12	163973.6	163973.6	0.30%	7.56	0.33	7.90	101.65	63	11	109.56	NCHSHT
NAA0612_4-50	50	4	12	149822.4	149822.4	0.16%	5.09	0.56	5.65	42.71	57	10	48.37	NCHSHT
NAA0712_4-50	50	4	12	160469.3	160469.3	0.14%	7.71	0.27	7.98	120.53	69	12	128.52	NCHSHT
NAA0812_4-50	50	4	12	156410.9	156410.9	0.33%	7.89	0.26	8.15	65.95	57	10	74.10	NCHSHT
NAA0912_4-50	50	4	12	171717.3	171717.3	0.08%	7.94	0.60	8.54	30.69	46	8	39.22	NCHSHT
NAA0018_4-50	50	4	18	227148.4	227148.4	0.16%	13.53	0.67	14.22	178.18	106	14	192.41	NCHSHT
NAA0118_4-50	50	4	18	231626.8	231626.8	0.22%	16.16	0.62	16.79	42.89	52	7	59.69	NCHSHT
NAA0218_4-50	50	4	18	236204.6	236204.6	0.19%	20.31	0.56	20.88	98.23	46	6	119.11	NCHSHT
NAA0318_4-50	50	4	18	241991.8	241991.8	0.11%	19.80	0.91	20.72	96.60	54	7	117.32	NCHSHT
NAA0418_4-50	50	4	18	251700.6	251700.6	0.25%	22.49	0.59	23.09	195.64	90	12	218.74	NCHSHT
NAA0518_4-50	50	4	18	242711.4	242711.4	0.18%	14.74	1.08	15.83	161.39	90	12	177.22	NCHSHT
NAA0618_4-50	50	4	18	223253.6	223253.6	0.09%	11.91	0.28	12.20	120.96	98	13	133.16	NCHSHT
NAA0718_4-50	50	4	18	239444.2	239444.2	0.22%	18.30	0.81	19.12	171.08	68	9	190.21	NCHSHT
NAA0818_4-50	50	4	18	226888.2	226888.2	0.07%	14.74	0.43	15.17	78.71	82	11	93.89	NCHSHT
NAA0918_4-50	50	4	18	250676.0	250676.0	0.14%	18.06	0.31	18.37	141.07	82	11	159.44	NCHSHT
NAA006_6-6	6	6	6	9300.6	9300.6	2.53%	0.78	0.03	0.82	0.77	20	4	1.58	NCHSHT
NAA016_6-6	6	6	6	12121.1	12121.1	0.00%	1.11	0.09	1.20	0.60	20	4	1.80	NCHSHT
NAA026_6-6	6	6	6	11179.8	11179.8	0.16%	0.74	0.07	0.81	0.36	15	3	1.17	NCHSHT
NAA036_6-6	6	6	6	13772.9	13772.9	1.10%	0.75	0.03	0.78	0.30	15	3	1.08	NCHSHT
NAA046_6-6	6	6	6	13354.0	13354.0	0.02%	0.95	0.05	1.00	0.68	25	5	1.68	NCHSHT
NAA056_6-6	6	6	6	15866.1	15866.1	1.45%	0.72	0.07	0.79	0.71	15	3	1.50	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%	0.53	0.03	0.57	0.45	15	3	1.02	NCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA076_6-6	6	6	6	14159.7	14159.7	0.52%	0.81	0.04	0.85	0.73	20	4	1.59	NCHSHT
NAA086_6-6	6	6	6	13821.8	13821.8	2.67%	0.95	0.07	1.03	0.53	15	3	1.56	NCHSHT
NAA096_6-6	6	6	6	15305.2	15305.2	1.01%	0.84	0.05	0.89	0.57	15	3	1.46	NCHSHT
NAA0012_6-6	6	6	12	18920.0	18920.0	0.09%	5.19	0.07	5.27	4.27	46	8	9.53	NCHSHT
NAA0112_6-6	6	6	12	22777.9	22777.9	0.28%	4.31	0.15	4.47	2.25	35	6	6.72	NCHSHT
NAA0212_6-6	6	6	12	23064.7	23064.7	0.51%	4.17	0.12	4.30	3.17	40	7	7.47	NCHSHT
NAA0312_6-6	6	6	12	26211.9	26211.9	0.58%	5.38	0.16	5.55	3.52	57	10	9.08	NCHSHT
NAA0412_6-6	6	6	12	25686.8	25686.8	0.81%	6.16	0.13	6.29	5.13	51	9	11.43	NCHSHT
NAA0512_6-6	6	6	12	27056.8	27056.8	1.40%	3.03	0.13	3.16	3.50	40	7	6.66	NCHSHT
NAA0612_6-6	6	6	12	22166.6	22166.6	1.64%	4.07	0.06	4.13	3.87	45	8	8.01	NCHSHT
NAA0712_6-6	6	6	12	27255.5	27255.5	0.16%	4.52	0.08	4.60	4.44	52	9	9.05	NCHSHT
NAA0812_6-6	6	6	12	25147.7	25147.7	1.84%	5.05	0.09	5.15	4.47	46	8	9.62	NCHSHT
NAA0912_6-6	6	6	12	27846.6	27846.6	0.08%	5.20	0.12	5.31	1.59	29	5	6.91	NCHSHT
NAA0018_6-6	6	6	18	28227.5	28227.5	1.00%	16.43	0.15	16.59	10.15	52	7	26.74	NCHSHT
NAA0118_6-6	6	6	18	34797.3	34797.3	0.38%	15.16	0.29	15.45	8.96	60	8	24.41	NCHSHT
NAA0218_6-6	6	6	18	31397.4	31397.4	0.07%	14.43	0.21	14.65	4.53	52	7	19.18	NCHSHT
NAA0318_6-6	6	6	18	36230.5	36230.5	0.00%	21.02	0.15	21.17	8.69	76	10	29.86	NCHSHT
NAA0418_6-6	6	6	18	37159.9	37159.9	0.42%	35.82	0.11	35.93	7.24	52	7	43.17	NCHSHT
NAA0518_6-6	6	6	18	41286.3	41286.3	0.39%	15.75	0.20	15.95	10.42	54	7	26.37	NCHSHT
NAA0618_6-6	6	6	18	32415.8	32415.8	0.53%	6.35	0.12	6.47	11.74	74	10	18.21	NCHSHT
NAA0718_6-6	6	6	18	39946.9	39946.9	0.33%	15.47	0.14	15.61	6.49	38	5	22.11	NCHSHT
NAA0818_6-6	6	6	18	39714.0	39714.0	0.81%	21.01	0.17	21.18	16.88	82	11	38.07	NCHSHT
NAA0918_6-6	6	6	18	42534.5	42534.5	0.20%	16.22	0.21	16.43	7.94	60	8	24.38	NCHSHT
NAA006_6-12	12	6	6	20153.5	20153.5	0.69%	1.35	0.06	1.41	1.00	20	4	2.41	NCHSHT
NAA016_6-12	12	6	6	20327.0	20327.0	0.55%	1.24	0.10	1.34	2.38	15	3	3.72	NCHSHT
NAA026_6-12	12	6	6	19201.3	19201.3	1.26%	0.99	0.06	1.06	1.67	20	4	2.73	NCHSHT
NAA036_6-12	12	6	6	20441.3	20441.3	2.20%	1.00	0.08	1.08	1.75	20	4	2.84	NCHSHT
NAA046_6-12	12	6	6	18596.0	18596.0	0.56%	1.08	0.07	1.16	0.47	10	2	1.62	NCHSHT
NAA056_6-12	12	6	6	20082.5	20082.5	0.98%	1.05	0.06	1.11	1.26	25	5	2.37	NCHSHT
NAA066_6-12	12	6	6	18088.9	18088.9	0.90%	0.94	0.05	1.00	1.11	20	4	2.11	NCHSHT
NAA076_6-12	12	6	6	23078.9	23078.9	0.00%	1.39	0.04	1.44	1.87	20	4	3.32	NCHSHT
NAA086_6-12	12	6	6	20662.3	20662.3	1.88%	1.35	0.04	1.39	1.85	15	3	3.25	NCHSHT
NAA096_6-12	12	6	6	23827.2	23827.2	1.13%	1.68	0.07	1.75	3.74	25	5	5.49	NCHSHT
NAA0012_6-12	12	6	12	37473.7	37473.7	0.59%	7.32	0.08	7.40	12.09	52	9	19.49	NCHSHT
NAA0112_6-12	12	6	12	39472.2	39472.2	0.46%	6.60	0.12	6.71	7.78	40	7	14.50	NCHSHT
NAA0212_6-12	12	6	12	36867.3	36867.3	0.12%	5.31	0.18	5.50	59.39	57	10	64.89	NCHSHT
NAA0312_6-12	12	6	12	40241.5	40241.5	1.38%	4.47	0.19	4.66	34.54	57	10	39.20	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%	5.73	0.21	5.94	5.09	23	4	11.04	NCHSHT
NAA0512_6-12	12	6	12	41195.1	41195.1	0.75%	5.10	0.14	5.24	9.03	35	6	14.27	NCHSHT
NAA0612_6-12	12	6	12	34387.0	34387.0	0.30%	4.45	0.13	4.59	7.83	68	12	12.42	NCHSHT
NAA0712_6-12	12	6	12	45761.8	45761.8	1.01%	6.81	0.18	6.99	54.65	46	8	61.65	NCHSHT
NAA0812_6-12	12	6	12	38120.8	38120.8	0.21%	5.47	0.16	5.63	17.12	57	10	22.75	NCHSHT
NAA0912_6-12	12	6	12	43167.2	43167.2	0.05%	5.38	0.15	5.53	7.35	46	8	12.88	NCHSHT
NAA0018_6-12	12	6	18	56278.6	56278.6	1.01%	23.90	0.18	24.08	30.79	52	7	54.87	NCHSHT
NAA0118_6-12	12	6	18	60921.8	60921.8	0.69%	18.73	0.20	18.93	22.29	60	8	41.23	NCHSHT
NAA0218_6-12	12	6	18	54864.0	54864.0	0.77%	17.92	0.22	18.15	22.91	68	9	41.07	NCHSHT
NAA0318_6-12	12	6	18	56858.8	56858.8	0.20%	9.33	0.19	9.52	30.48	98	13	40.00	NCHSHT
NAA0418_6-12	12	6	18	52402.7	52402.7	0.58%	13.08	0.26	13.35	20.07	52	7	33.42	NCHSHT
NAA0518_6-12	12	6	18	61728.7	61728.7	0.73%	17.36	0.30	17.66	13.28	52	7	30.94	NCHSHT
NAA0618_6-12	12	6	18	53911.4	53911.4	0.15%	14.56	0.13	14.69	9.52	52	7	24.21	NCHSHT
NAA0718_6-12	12	6	18	66624.1	66624.1	1.14%	20.28	0.30	20.58	81.02	74	10	101.61	NCHSHT
NAA0818_6-12	12	6	18	56891.5	56891.5	1.34%	19.42	0.41	19.83	61.10	60	8	80.93	NCHSHT
NAA0918_6-12	12	6	18	64655.7	64655.7	0.47%	19.00	0.31	19.31	38.21	90	12	57.52	NCHSHT
NAA006_6-25	25	6	6	38966.4	38966.4	0.05%	2.33	0.14	2.47	15.10	25	5	17.57	NCHSHT
NAA016_6-25	25	6	6	39812.7	39812.7	1.00%	1.79	0.14	1.93	2.81	20	4	4.74	NCHSHT
NAA026_6-25	25	6	6	41547.0	41547.0	1.14%	2.57	0.28	2.84	18.60	20	4	21.45	NCHSHT
NAA036_6-25	25	6	6	40439.8	40439.8	0.32%	2.78	0.27	3.05	14.90	25	5	17.95	NCHSHT
NAA046_6-25	25	6	6	42368.4	42368.4	0.31%	3.08	0.15	3.23	15.87	30	6	19.11	NCHSHT
NAA056_6-25	25	6	6	40345.0	40345.0	1.09%	1.78	0.19	1.97	15.78	20	4	17.75	NCHSHT
NAA066_6-25	25	6	6	38557.6	38557.6	0.32%	1.87	0.14	2.02	6.77	25	5	8.79	NCHSHT
NAA076_6-25	25	6	6	42376.1	42376.1	0.14%	2.93	0.06	2.99	5.46	25	5	8.45	NCHSHT
NAA086_6-25	25	6	6	40317.3	40317.3	0.71%	2.26	0.16	2.43	8.61	20	4	11.04	NCHSHT
NAA096_6-25	25	6	6	42859.9	42859.9	2.67%	2.58	0.09	2.67	15.35	20	4	18.02	NCHSHT
NAA0012_6-25	25	6	12	76632.2	76632.2	1.04%	9.01	0.29	9.30	124.65	86	15	133.96	NCHSHT
NAA0112_6-25	25	6	12	78662.8	78662.8	0.72%	10.64	0.17	10.82	139.10	69	12	149.92	NCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0212_6-25	25	6	12	80001.0	80001.0	0.96%	10.55	0.29	10.84	98.31	52	9	109.16	NCHSHT
NAA0312_6-25	25	6	12	77339.3	77339.3	0.74%	10.41	0.19	10.61	65.36	46	8	75.97	NCHSHT
NAA0412_6-25	25	6	12	80496.2	80496.2	0.67%	9.46	0.35	9.82	77.06	58	10	86.88	NCHSHT
NAA0512_6-25	25	6	12	76112.3	76112.3	0.30%	7.28	0.24	7.53	52.99	74	13	60.53	NCHSHT
NAA0612_6-25	25	6	12	74038.4	74038.4	0.84%	7.09	0.23	7.32	66.14	75	13	73.47	NCHSHT
NAA0712_6-25	25	6	12	77887.3	77887.3	0.51%	7.91	0.38	8.30	69.69	64	11	77.99	NCHSHT
NAA0812_6-25	25	6	12	74903.9	74903.9	0.69%	7.72	0.14	7.86	88.60	52	9	96.46	NCHSHT
NAA0912_6-25	25	6	12	81865.9	81865.9	0.65%	11.40	0.20	11.60	80.61	75	13	92.22	NCHSHT
NAA0018_6-25	25	6	18	111038.3	111038.3	0.94%	25.41	0.52	25.94	137.17	68	9	163.11	NCHSHT
NAA0118_6-25	25	6	18	117122.6	117122.6	0.87%	20.21	0.54	20.75	200.70	98	13	221.46	NCHSHT
NAA0218_6-25	25	6	18	120272.2	120272.2	0.97%	30.67	0.36	31.05	147.43	76	10	178.49	NCHSHT
NAA0318_6-25	25	6	18	116411.0	116411.0	0.96%	36.70	0.29	37.00	183.34	60	8	220.35	NCHSHT
NAA0418_6-25	25	6	18	120052.4	120052.4	0.60%	20.95	0.43	21.39	136.87	68	9	158.27	NCHSHT
NAA0518_6-25	25	6	18	117072.6	117072.6	0.47%	20.31	0.38	20.69	74.89	74	10	95.58	NCHSHT
NAA0618_6-25	25	6	18	108263.1	108263.1	0.46%	19.94	0.36	20.32	82.13	52	7	102.45	NCHSHT
NAA0718_6-25	25	6	18	114542.7	114542.7	0.35%	20.58	0.31	20.91	57.83	74	10	78.75	NCHSHT
NAA0818_6-25	25	6	18	108286.5	108286.5	0.90%	17.04	0.82	17.86	142.85	76	10	160.71	NCHSHT
NAA0918_6-25	25	6	18	121845.3	121845.3	0.84%	22.18	0.39	22.57	195.14	90	12	217.71	NCHSHT
NAA006_6-50	50	6	6	74032.4	74032.4	0.14%	3.32	0.11	3.43	10.23	20	4	13.67	NCHSHT
NAA016_6-50	50	6	6	76532.2	76532.2	0.71%	2.99	0.48	3.48	57.99	25	5	61.48	NCHSHT
NAA026_6-50	50	6	6	79012.1	79012.1	0.45%	4.00	0.30	4.30	61.50	20	4	65.81	NCHSHT
NAA036_6-50	50	6	6	77534.4	77534.4	0.06%	3.38	0.34	3.72	33.87	35	7	37.59	NCHSHT
NAA046_6-50	50	6	6	79567.0	79567.0	0.27%	3.43	0.28	3.71	35.08	25	5	38.79	NCHSHT
NAA056_6-50	50	6	6	80003.9	80003.9	0.32%	3.63	0.18	3.81	56.03	25	5	59.83	NCHSHT
NAA066_6-50	50	6	6	76847.1	76847.1	0.45%	4.70	0.59	5.29	34.16	20	4	39.45	NCHSHT
NAA076_6-50	50	6	6	80975.9	80975.9	0.18%	3.26	0.16	3.42	21.15	25	5	24.57	NCHSHT
NAA086_6-50	50	6	6	75681.1	75681.1	0.19%	3.23	0.50	3.74	31.57	25	5	35.31	NCHSHT
NAA096_6-50	50	6	6	76891.6	76891.6	0.27%	3.26	0.29	3.55	22.35	25	5	25.91	NCHSHT
NAA0012_6-50	50	6	12	144705.5	144705.5	0.24%	10.21	0.76	10.99	145.67	75	13	156.67	NCHSHT
NAA0112_6-50	50	6	12	147534.0	147534.0	0.24%	10.80	0.63	11.44	99.70	63	11	111.14	NCHSHT
NAA0212_6-50	50	6	12	152406.3	152406.3	0.51%	11.86	0.91	12.78	181.11	63	11	193.89	NCHSHT
NAA0312_6-50	50	6	12	150844.6	150844.6	0.32%	14.36	0.31	14.68	125.36	57	10	140.04	NCHSHT
NAA0412_6-50	50	6	12	157199.8	157199.8	0.24%	12.77	1.11	13.89	125.66	58	10	139.56	NCHSHT
NAA0512_6-50	50	6	12	153795.3	153795.3	0.46%	12.64	0.51	13.15	219.77	87	15	232.93	NCHSHT
NAA0612_6-50	50	6	12	145862.4	145862.4	0.46%	14.48	0.35	14.84	194.63	75	13	209.47	NCHSHT
NAA0712_6-50	50	6	12	155832.9	155832.9	0.14%	11.14	0.42	11.57	56.60	52	9	68.17	NCHSHT
NAA0812_6-50	50	6	12	142533.9	142533.9	0.27%	9.75	0.52	10.27	81.40	57	10	91.68	NCHSHT
NAA0912_6-50	50	6	12	149694.1	149694.1	0.36%	10.97	0.35	11.32	124.94	63	11	136.27	NCHSHT
NAA0018_6-50	50	6	18	214700.5	214700.5	0.31%	25.72	1.04	26.77	153.45	76	10	180.23	NCHSHT
NAA0118_6-50	50	6	18	216536.6	216536.6	0.27%	24.57	1.39	25.97	180.18	96	13	206.15	NCHSHT
NAA0218_6-50	50	6	18	221796.3	221796.3	0.18%	31.29	1.48	32.77	174.97	76	10	207.75	NCHSHT
NAA0318_6-50	50	6	18	224213.1	224213.1	0.26%	38.66	0.92	39.59	137.63	62	8	177.23	NCHSHT
NAA0418_6-50	50	6	18	234074.8	234074.8	0.26%	28.15	2.18	30.34	292.60	98	13	322.95	NCHSHT
NAA0518_6-50	50	6	18	223372.0	223372.0	0.27%	30.36	1.01	31.38	229.88	92	12	261.27	NCHSHT
NAA0618_6-50	50	6	18	217295.9	217295.9	0.48%	41.15	1.21	42.36	332.89	98	13	375.26	NCHSHT
NAA0718_6-50	50	6	18	228982.2	228982.2	0.21%	34.71	0.54	35.26	129.13	60	8	164.40	NCHSHT
NAA0818_6-50	50	6	18	212999.3	212999.3	0.15%	21.52	0.95	22.48	149.81	82	11	172.30	NCHSHT
NAA0918_6-50	50	6	18	222762.2	222762.2	0.20%	27.25	0.50	27.77	154.26	76	10	182.04	NCHSHT
NAB006_2-6	6	2	6	14641.0	14641.0	4.19%	0.28	0.02	0.30	0.47	20	4	0.77	NCHSLT
NAB016_2-6	6	2	6	11122.9	11122.9	1.37%	0.38	0.02	0.40	0.22	15	3	0.62	NCHSLT
NAB026_2-6	6	2	6	14901.1	14901.1	2.13%	0.24	0.03	0.27	0.16	10	2	0.43	NCHSLT
NAB036_2-6	6	2	6	15619.6	15619.6	4.12%	0.27	0.02	0.29	0.21	15	3	0.51	NCHSLT
NAB046_2-6	6	2	6	16980.8	16980.8	3.35%	0.33	0.02	0.36	0.31	10	2	0.67	NCHSLT
NAB056_2-6	6	2	6	16956.9	16956.9	2.35%	0.32	0.01	0.34	0.33	15	3	0.67	NCHSLT
NAB066_2-6	6	2	6	16622.4	16622.4	4.41%	0.38	0.02	0.40	0.24	10	2	0.64	NCHSLT
NAB076_2-6	6	2	6	16482.6	16482.6	0.12%	0.30	0.02	0.32	0.34	15	3	0.66	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%	0.20	0.02	0.22	0.13	15	3	0.35	NCHSLT
NAB096_2-6	6	2	6	12969.2	12969.2	0.66%	0.27	0.03	0.30	0.12	10	2	0.43	NCHSLT
NAB0012_2-6	6	2	12	24444.0	24444.0	0.65%	1.06	0.02	1.08	1.98	51	9	3.07	NCHSLT
NAB0112_2-6	6	2	12	23463.1	23463.1	0.59%	1.49	0.03	1.52	2.87	51	9	4.39	NCHSLT
NAB0212_2-6	6	2	12	27236.9	27236.9	1.84%	1.01	0.03	1.04	1.65	40	7	2.69	NCHSLT
NAB0312_2-6	6	2	12	26832.6	26832.6	0.00%	1.07	0.03	1.10	1.48	40	7	2.58	NCHSLT
NAB0412_2-6	6	2	12	27059.2	27059.2	0.54%	1.45	0.03	1.48	2.88	40	7	4.36	NCHSLT
NAB0512_2-6	6	2	12	31614.3	31614.3	2.42%	1.10	0.03	1.13	2.20	40	7	3.33	NCHSLT
NAB0612_2-6	6	2	12	28113.4	28113.4	0.36%	0.81	0.06	0.87	1.75	46	8	2.62	NCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0712_2-6	6	2	12	26968.5	26968.5	0.19%	1.49	0.02	1.51	1.44	40	7	2.96	NCHSLT
NAB0812_2-6	6	2	12	22043.0	22043.0	0.19%	0.98	0.03	1.01	1.67	51	9	2.69	NCHSLT
NAB0912_2-6	6	2	12	27018.0	27018.0	0.10%	1.21	0.03	1.24	1.77	40	7	3.01	NCHSLT
NAB0018_2-6	6	2	18	33520.3	33520.3	1.22%	4.64	0.03	4.68	8.36	76	10	13.04	NCHSLT
NAB0118_2-6	6	2	18	33938.1	33938.1	1.27%	3.60	0.04	3.64	3.92	44	6	7.56	NCHSLT
NAB0218_2-6	6	2	18	39583.3	39583.3	0.54%	2.58	0.07	2.65	2.35	52	7	5.00	NCHSLT
NAB0318_2-6	6	2	18	78260391.7	78260391.7	227.78%	2.81	0.06	2.87	2.57	38	5	5.44	NCHSLT
NAB0418_2-6	6	2	18	37058.6	37058.6	1.02%	5.62	0.04	5.66	7.13	66	9	12.80	NCHSLT
NAB0518_2-6	6	2	18	42569.9	42569.9	0.38%	3.39	0.07	3.45	5.01	44	6	8.46	NCHSLT
NAB0618_2-6	6	2	18	39481.3	39481.3	1.81%	2.65	0.06	2.72	4.30	46	6	7.02	NCHSLT
NAB0718_2-6	6	2	18	39214.8	39214.8	1.02%	3.66	0.04	3.70	6.57	66	9	10.27	NCHSLT
NAB0818_2-6	6	2	18	31855.6	31855.6	0.78%	2.27	0.05	2.32	3.29	68	9	5.61	NCHSLT
NAB0918_2-6	6	2	18	36295.4	36295.4	0.71%	1.97	0.03	2.00	1.92	30	4	3.92	NCHSLT
NAB006_2-12	12	2	6	21834.8	21834.8	0.21%	0.53	0.04	0.58	0.50	15	3	1.08	NCHSLT
NAB016_2-12	12	2	6	25115.4	25115.4	3.21%	0.40	0.02	0.42	0.65	20	4	1.08	NCHSLT
NAB026_2-12	12	2	6	25690.6	25690.6	0.74%	0.56	0.03	0.59	0.58	15	3	1.17	NCHSLT
NAB036_2-12	12	2	6	29581.9	29581.9	0.90%	0.35	0.04	0.39	0.56	15	3	0.95	NCHSLT
NAB046_2-12	12	2	6	25227.2	25227.2	0.06%	0.47	0.02	0.49	0.41	15	3	0.91	NCHSLT
NAB056_2-12	12	2	6	29157.7	29157.7	0.37%	0.55	0.03	0.58	0.92	15	3	1.50	NCHSLT
NAB066_2-12	12	2	6	25636.7	25636.7	0.90%	0.43	0.04	0.47	0.37	15	3	0.84	NCHSLT
NAB076_2-12	12	2	6	26057.6	26057.6	2.36%	0.43	0.03	0.46	0.25	10	2	0.71	NCHSLT
NAB086_2-12	12	2	6	24346.3	24346.3	4.28%	0.43	0.03	0.46	0.72	20	4	1.17	NCHSLT
NAB096_2-12	12	2	6	27696.8	27696.8	1.66%	0.50	0.02	0.52	0.38	10	2	0.90	NCHSLT
NAB0012_2-12	12	2	12	41488.6	41488.6	0.87%	1.66	0.03	1.69	5.17	34	6	6.87	NCHSLT
NAB0112_2-12	12	2	12	41741.9	41741.9	0.33%	1.29	0.04	1.33	2.16	34	6	3.50	NCHSLT
NAB0212_2-12	12	2	12	44291.1	44291.1	0.69%	1.71	0.04	1.75	8.45	57	10	10.20	NCHSLT
NAB0312_2-12	12	2	12	53305.8	53305.8	0.57%	1.77	0.04	1.82	7.27	51	9	9.09	NCHSLT
NAB0412_2-12	12	2	12	45510.8	45510.8	0.93%	1.51	0.03	1.54	5.63	57	10	7.17	NCHSLT
NAB0512_2-12	12	2	12	52490.1	52490.1	0.59%	2.03	0.05	2.08	3.88	28	5	5.97	NCHSLT
NAB0612_2-12	12	2	12	46353.1	46353.1	1.36%	1.78	0.06	1.84	5.10	34	6	6.94	NCHSLT
NAB0712_2-12	12	2	12	47665.0	47665.0	0.25%	1.69	0.04	1.73	5.15	46	8	6.89	NCHSLT
NAB0812_2-12	12	2	12	41991.9	41991.9	0.30%	1.31	0.06	1.36	3.43	62	11	4.80	NCHSLT
NAB0912_2-12	12	2	12	50808.9	50808.9	0.56%	2.08	0.04	2.13	12.10	40	7	14.23	NCHSLT
NAB0018_2-12	12	2	18	61201.6	61201.6	0.64%	4.75	0.06	4.81	16.40	82	11	21.21	NCHSLT
NAB0118_2-12	12	2	18	62018.9	62018.9	0.12%	4.02	0.05	4.07	4.56	44	6	8.63	NCHSLT
NAB0218_2-12	12	2	18	65489.8	65489.8	0.44%	4.69	0.06	4.75	13.39	74	10	18.14	NCHSLT
NAB0318_2-12	12	2	18	76071.2	76071.2	1.02%	3.75	0.06	3.81	19.28	60	8	23.09	NCHSLT
NAB0418_2-12	12	2	18	68199.2	68199.2	1.05%	3.81	0.05	3.86	9.98	38	5	13.84	NCHSLT
NAB0518_2-12	12	2	18	74344.0	74344.0	0.63%	4.23	0.06	4.29	17.98	68	9	22.28	NCHSLT
NAB0618_2-12	12	2	18	66365.1	66365.1	0.66%	4.55	0.07	4.62	22.34	88	12	26.96	NCHSLT
NAB0718_2-12	12	2	18	67799.4	67799.4	0.01%	3.01	0.06	3.07	6.60	52	7	9.67	NCHSLT
NAB0818_2-12	12	2	18	64983.5	64983.5	0.23%	2.67	0.04	2.70	13.41	52	7	16.12	NCHSLT
NAB0918_2-12	12	2	18	73271.1	73271.1	0.81%	4.59	0.05	4.63	20.23	52	7	24.87	NCHSLT
NAB006_2-25	25	2	6	48663.4	48663.4	0.59%	1.01	0.03	1.05	0.93	10	2	1.98	NCHSLT
NAB016_2-25	25	2	6	49628.5	49628.5	0.86%	0.75	0.03	0.78	0.78	10	2	1.56	NCHSLT
NAB026_2-25	25	2	6	52135.9	52135.9	0.15%	0.89	0.03	0.93	1.67	20	4	2.60	NCHSLT
NAB036_2-25	25	2	6	53753.1	53753.1	0.12%	0.79	0.05	0.83	1.52	15	3	2.36	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%	0.98	0.03	1.01	2.22	20	4	3.24	NCHSLT
NAB056_2-25	25	2	6	57563.6	57563.6	0.26%	0.92	0.04	0.96	2.08	15	3	3.04	NCHSLT
NAB066_2-25	25	2	6	47089.0	47089.0	1.18%	0.76	0.03	0.79	0.43	10	2	1.22	NCHSLT
NAB076_2-25	25	2	6	52335.3	52335.3	0.24%	0.87	0.03	0.90	0.86	10	2	1.76	NCHSLT
NAB086_2-25	25	2	6	55131.4	55131.4	0.24%	1.00	0.03	1.03	2.13	15	3	3.16	NCHSLT
NAB096_2-25	25	2	6	60811.0	60811.0	0.66%	0.88	0.04	0.91	2.89	15	3	3.80	NCHSLT
NAB0012_2-25	25	2	12	89302.7	89302.7	0.04%	3.09	0.04	3.13	3.81	17	3	6.94	NCHSLT
NAB0112_2-25	25	2	12	95017.5	95017.5	0.28%	2.99	0.10	3.09	31.48	51	9	34.57	NCHSLT
NAB0212_2-25	25	2	12	91939.9	91939.9	0.59%	3.09	0.10	3.19	87.76	69	12	90.95	NCHSLT
NAB0312_2-25	25	2	12	95668.8	95668.8	0.67%	2.93	0.09	3.02	13.53	57	10	16.55	NCHSLT
NAB0412_2-25	25	2	12	94798.5	94798.5	0.62%	3.54	0.08	3.62	33.04	69	12	36.66	NCHSLT
NAB0512_2-25	25	2	12	107514.2	107514.2	0.75%	3.80	0.11	3.91	41.00	34	6	44.91	NCHSLT
NAB0612_2-25	25	2	12	90908.3	90908.3	0.22%	2.96	0.06	3.02	9.44	52	9	12.47	NCHSLT
NAB0712_2-25	25	2	12	96709.6	96709.6	0.33%	3.41	0.05	3.46	15.41	40	7	18.88	NCHSLT
NAB0812_2-25	25	2	12	99586.9	99586.9	0.76%	3.84	0.06	3.90	36.12	63	11	40.02	NCHSLT
NAB0912_2-25	25	2	12	104429.6	104429.6	0.34%	3.13	0.06	3.19	28.83	63	11	32.03	NCHSLT
NAB0018_2-25	25	2	18	129759.4	129759.4	0.24%	7.48	0.12	7.60	39.47	68	9	47.07	NCHSLT
NAB0118_2-25	25	2	18	133484.6	133484.6	0.23%	5.95	0.14	6.09	42.04	66	9	48.13	NCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0218_2-25	25	2	18	131878.9	131878.9	0.74%	9.60	0.18	9.78	81.93	38	5	91.71	NCHSLT
NAB0318_2-25	25	2	18	143415.0	143415.0	0.29%	5.43	0.13	5.56	79.94	60	8	85.50	NCHSLT
NAB0418_2-25	25	2	18	138531.1	138531.1	0.76%	7.82	0.13	7.96	50.44	52	7	58.40	NCHSLT
NAB0518_2-25	25	2	18	150537.3	150537.3	0.75%	8.27	0.16	8.43	117.43	44	6	125.86	NCHSLT
NAB0618_2-25	25	2	18	127990.4	127990.4	0.19%	5.72	0.08	5.80	38.76	74	10	44.56	NCHSLT
NAB0718_2-25	25	2	18	142766.2	142766.2	0.74%	9.79	0.09	9.89	144.34	68	9	154.23	NCHSLT
NAB0818_2-25	25	2	18	140485.6	140485.6	0.46%	7.69	0.16	7.85	115.00	90	12	122.85	NCHSLT
NAB0918_2-25	25	2	18	149971.3	149971.3	0.59%	7.87	0.12	7.99	58.89	44	6	66.88	NCHSLT
NAB006_2-50	50	2	6	95522.3	95522.3	0.29%	1.54	0.08	1.63	3.76	15	3	5.39	NCHSLT
NAB016_2-50	50	2	6	99233.8	99233.8	0.31%	1.45	0.06	1.51	1.77	15	3	3.28	NCHSLT
NAB026_2-50	50	2	6	96628.8	96628.8	0.55%	1.63	0.03	1.66	2.55	15	3	4.21	NCHSLT
NAB036_2-50	50	2	6	104282.4	104282.4	0.25%	1.58	0.08	1.67	2.69	10	2	4.37	NCHSLT
NAB046_2-50	50	2	6	109981.7	109981.7	0.73%	1.53	0.07	1.61	27.31	25	5	28.92	NCHSLT
NAB056_2-50	50	2	6	107536.7	107536.7	0.38%	1.77	0.08	1.85	19.67	25	5	21.51	NCHSLT
NAB066_2-50	50	2	6	97055.3	97055.3	0.69%	1.51	0.07	1.58	2.81	15	3	4.39	NCHSLT
NAB076_2-50	50	2	6	103663.1	103663.1	0.33%	1.70	0.07	1.77	7.35	20	4	9.13	NCHSLT
NAB086_2-50	50	2	6	101304.4	101304.4	0.28%	1.62	0.03	1.65	1.74	15	3	3.39	NCHSLT
NAB096_2-50	50	2	6	105508.6	105508.6	0.53%	1.61	0.08	1.70	8.95	15	3	10.65	NCHSLT
NAB0012_2-50	50	2	12	178107.4	178107.4	0.18%	4.56	0.06	4.62	50.60	46	8	55.22	NCHSLT
NAB0112_2-50	50	2	12	185389.8	185389.8	0.02%	4.05	0.07	4.12	9.87	46	8	14.00	NCHSLT
NAB0212_2-50	50	2	12	178305.1	178305.1	0.07%	5.01	0.15	5.16	27.71	57	10	32.87	NCHSLT
NAB0312_2-50	50	2	12	191111.6	191111.6	0.15%	4.25	0.09	4.35	81.19	57	10	85.54	NCHSLT
NAB0412_2-50	50	2	12	197426.1	197426.1	0.38%	6.19	0.19	6.38	167.92	63	11	174.30	NCHSLT
NAB0512_2-50	50	2	12	194976.5	194976.5	0.21%	5.05	0.14	5.18	110.03	75	13	115.22	NCHSLT
NAB0612_2-50	50	2	12	175559.1	175559.1	0.01%	4.80	0.11	4.91	8.23	40	7	13.14	NCHSLT
NAB0712_2-50	50	2	12	186921.0	186921.0	0.25%	5.65	0.12	5.77	78.42	34	6	84.20	NCHSLT
NAB0812_2-50	50	2	12	180998.2	180998.2	0.09%	5.18	0.07	5.26	78.68	80	14	83.94	NCHSLT
NAB0912_2-50	50	2	12	192310.6	192310.6	0.26%	5.62	0.10	5.73	59.93	46	8	65.66	NCHSLT
NAB0018_2-50	50	2	18	260570.7	260570.7	0.11%	8.60	0.23	8.83	33.27	38	5	42.11	NCHSLT
NAB0118_2-50	50	2	18	269151.9	269151.9	0.16%	10.76	0.46	11.22	93.24	76	10	104.46	NCHSLT
NAB0218_2-50	50	2	18	258294.9	258294.9	0.17%	11.28	0.22	11.50	130.66	74	10	142.17	NCHSLT
NAB0318_2-50	50	2	18	280592.5	280592.5	0.13%	9.11	0.19	9.30	65.53	52	7	74.84	NCHSLT
NAB0418_2-50	50	2	18	287617.7	287617.7	0.37%	14.53	0.48	15.01	195.37	46	6	210.39	NCHSLT
NAB0518_2-50	50	2	18	285682.7	285682.7	0.42%	10.32	0.25	10.57	101.98	46	6	112.56	NCHSLT
NAB0618_2-50	50	2	18	257710.9	257710.9	0.17%	10.57	0.20	10.78	114.82	74	10	125.60	NCHSLT
NAB0718_2-50	50	2	18	271468.0	271468.0	0.25%	11.39	0.14	11.54	214.81	76	10	226.34	NCHSLT
NAB0818_2-50	50	2	18	264329.6	264329.6	0.18%	9.79	0.21	10.00	115.10	74	10	125.10	NCHSLT
NAB0918_2-50	50	2	18	280154.6	280154.6	0.18%	13.73	0.14	13.88	132.14	82	11	146.02	NCHSLT
NAB006_4-6	6	4	6	9708.1	9708.1	0.50%	0.45	0.04	0.49	0.32	15	3	0.81	NCHSLT
NAB016_4-6	6	4	6	12101.8	12101.8	0.51%	0.75	0.04	0.79	0.70	10	2	1.49	NCHSLT
NAB026_4-6	6	4	6	12081.7	12081.7	0.41%	0.71	0.04	0.74	0.25	10	2	0.99	NCHSLT
NAB036_4-6	6	4	6	12986.2	12986.2	2.87%	0.57	0.03	0.60	0.73	30	6	1.34	NCHSLT
NAB046_4-6	6	4	6	10926.9	10926.9	1.30%	0.62	0.02	0.64	1.49	25	5	2.14	NCHSLT
NAB056_4-6	6	4	6	15461.9	15461.9	0.53%	0.50	0.04	0.54	0.39	15	3	0.93	NCHSLT
NAB066_4-6	6	4	6	12679.8	12679.8	2.37%	0.59	0.03	0.62	0.61	15	3	1.23	NCHSLT
NAB076_4-6	6	4	6	14070.8	14070.8	0.91%	0.47	0.04	0.51	0.41	10	2	0.92	NCHSLT
NAB086_4-6	6	4	6	10417.7	10417.7	4.52%	0.42	0.04	0.46	0.30	15	3	0.76	NCHSLT
NAB096_4-6	6	4	6	14823.0	14823.0	0.75%	0.53	0.04	0.58	0.43	15	3	1.00	NCHSLT
NAB0012_4-6	6	4	12	18089.3	18089.3	1.16%	2.91	0.04	2.96	2.42	34	6	5.38	NCHSLT
NAB0112_4-6	6	4	12	25123.2	25123.2	0.10%	3.69	0.09	3.79	9.96	75	13	13.75	NCHSLT
NAB0212_4-6	6	4	12	23171.7	23171.7	0.00%	2.95	0.06	3.01	4.27	57	10	7.29	NCHSLT
NAB0312_4-6	6	4	12	25722.4	25722.4	0.46%	1.77	0.05	1.82	1.61	40	7	3.43	NCHSLT
NAB0412_4-6	6	4	12	23785.0	23785.0	1.07%	2.95	0.08	3.03	9.34	57	10	12.37	NCHSLT
NAB0512_4-6	6	4	12	30544.5	30544.5	0.91%	2.59	0.05	2.64	4.06	63	11	6.71	NCHSLT
NAB0612_4-6	6	4	12	22004.8	22004.8	0.37%	2.36	0.07	2.42	4.63	73	13	7.05	NCHSLT
NAB0712_4-6	6	4	12	24751.7	24751.7	0.73%	2.23	0.06	2.29	3.71	57	10	6.00	NCHSLT
NAB0812_4-6	6	4	12	21053.3	21053.3	0.01%	2.02	0.09	2.11	3.47	35	6	5.58	NCHSLT
NAB0912_4-6	6	4	12	26132.2	26132.2	0.85%	3.07	0.04	3.11	0.92	23	4	4.03	NCHSLT
NAB0018_4-6	6	4	18	27503.3	27503.3	0.03%	9.62	0.10	9.72	6.87	60	8	16.59	NCHSLT
NAB0118_4-6	6	4	18	33421.7	33421.7	0.44%	18.56	0.11	18.68	8.70	60	8	27.38	NCHSLT
NAB0218_4-6	6	4	18	33320.7	33320.7	0.01%	10.70	0.09	10.78	11.99	90	12	22.77	NCHSLT
NAB0318_4-6	6	4	18	38979.8	38979.8	0.09%	6.33	0.10	6.43	7.00	46	6	13.44	NCHSLT
NAB0418_4-6	6	4	18	35133.5	35133.5	0.37%	13.11	0.10	13.22	11.38	60	8	24.60	NCHSLT
NAB0518_4-6	6	4	18	43188.2	43188.2	0.36%	10.16	0.12	10.29	5.82	52	7	16.10	NCHSLT
NAB0618_4-6	6	4	18	34136.5	34136.5	0.00%	7.71	0.15	7.85	10.87	82	11	18.72	NCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0718_4-6	6	4	18	37333.1	37333.1	0.19%	5.92	0.13	6.04	11.65	90	12	17.69	NCHSLT
NAB0818_4-6	6	4	18	28105.9	28105.9	0.21%	6.67	0.10	6.76	2.71	38	5	9.47	NCHSLT
NAB0918_4-6	6	4	18	38404.7	38404.7	0.67%	9.80	0.12	9.92	4.70	44	6	14.63	NCHSLT
NAB006_4-12	12	4	6	20487.4	20487.4	0.23%	0.85	0.05	0.90	0.42	10	2	1.32	NCHSLT
NAB016_4-12	12	4	6	23683.9	23683.9	0.00%	1.20	0.05	1.24	5.50	25	5	6.74	NCHSLT
NAB026_4-12	12	4	6	18953.3	18953.3	0.85%	0.72	0.08	0.80	0.83	15	3	1.63	NCHSLT
NAB036_4-12	12	4	6	21057.9	21057.9	1.55%	0.79	0.03	0.82	1.08	15	3	1.90	NCHSLT
NAB046_4-12	12	4	6	23286.1	23286.1	1.17%	1.06	0.04	1.10	0.89	15	3	1.99	NCHSLT
NAB056_4-12	12	4	6	24417.9	24417.9	0.94%	0.91	0.04	0.94	1.23	15	3	2.18	NCHSLT
NAB066_4-12	12	4	6	21360.8	21360.8	0.28%	0.67	0.07	0.74	0.86	20	4	1.60	NCHSLT
NAB076_4-12	12	4	6	22079.9	22079.9	2.16%	0.94	0.05	0.99	4.18	15	3	5.17	NCHSLT
NAB086_4-12	12	4	6	23205.5	23205.5	2.32%	0.68	0.04	0.73	0.66	10	2	1.38	NCHSLT
NAB096_4-12	12	4	6	22817.2	22817.2	1.71%	0.92	0.06	0.99	4.19	20	4	5.18	NCHSLT
NAB0012_4-12	12	4	12	36637.2	36637.2	0.12%	4.58	0.07	4.65	41.18	69	12	45.84	NCHSLT
NAB0112_4-12	12	4	12	41898.5	41898.5	1.36%	5.82	0.11	5.93	47.97	52	9	53.90	NCHSLT
NAB0212_4-12	12	4	12	37574.1	37574.1	0.39%	3.42	0.08	3.51	10.56	51	9	14.07	NCHSLT
NAB0312_4-12	12	4	12	40984.6	40984.6	0.05%	3.49	0.13	3.62	11.33	69	12	14.95	NCHSLT
NAB0412_4-12	12	4	12	42530.6	42530.6	0.06%	3.90	0.09	3.99	10.66	52	9	14.66	NCHSLT
NAB0512_4-12	12	4	12	46840.1	46840.1	1.90%	4.35	0.09	4.44	20.86	51	9	25.31	NCHSLT
NAB0612_4-12	12	4	12	40110.7	40110.7	0.00%	2.50	0.11	2.61	11.42	56	10	14.03	NCHSLT
NAB0712_4-12	12	4	12	43205.2	43205.2	1.28%	3.61	0.10	3.71	47.63	46	8	51.35	NCHSLT
NAB0812_4-12	12	4	12	42006.5	42006.5	0.36%	2.76	0.10	2.86	3.98	34	6	6.85	NCHSLT
NAB0912_4-12	12	4	12	45404.4	45404.4	1.36%	3.95	0.08	4.03	52.78	58	10	56.81	NCHSLT
NAB0018_4-12	12	4	18	54887.0	54887.0	0.75%	9.18	0.16	9.35	57.43	60	8	66.78	NCHSLT
NAB0118_4-12	12	4	18	61368.3	61368.3	1.50%	16.96	0.17	17.14	80.29	46	6	97.43	NCHSLT
NAB0218_4-12	12	4	18	54055.9	54055.9	0.33%	5.07	0.12	5.20	8.58	60	8	13.78	NCHSLT
NAB0318_4-12	12	4	18	62687.3	62687.3	0.97%	11.17	0.17	11.34	31.49	46	6	42.84	NCHSLT
NAB0418_4-12	12	4	18	63545.4	63545.4	1.41%	10.09	0.13	10.23	76.51	54	7	86.74	NCHSLT
NAB0518_4-12	12	4	18	67522.0	67522.0	1.30%	9.16	0.11	9.27	25.93	38	5	35.20	NCHSLT
NAB0618_4-12	12	4	18	59939.0	59939.0	0.61%	10.28	0.10	10.38	11.86	60	8	22.25	NCHSLT
NAB0718_4-12	12	4	18	66331.2	66331.2	1.36%	11.76	0.18	11.94	107.06	60	8	119.00	NCHSLT
NAB0818_4-12	12	4	18	63639.1	63639.1	0.25%	8.16	0.12	8.28	51.90	98	13	60.19	NCHSLT
NAB0918_4-12	12	4	18	64190.2	64190.2	0.90%	10.66	0.24	10.90	39.29	58	8	50.19	NCHSLT
NAB006_4-25	25	4	6	37960.6	37960.6	0.50%	1.86	0.08	1.95	5.37	25	5	7.31	NCHSLT
NAB016_4-25	25	4	6	46395.2	46395.2	0.69%	2.00	0.11	2.10	5.65	20	4	7.76	NCHSLT
NAB026_4-25	25	4	6	44011.7	44011.7	1.15%	1.98	0.09	2.07	34.85	30	6	36.92	NCHSLT
NAB036_4-25	25	4	6	43916.9	43916.9	1.44%	1.79	0.12	1.91	23.30	20	4	25.22	NCHSLT
NAB046_4-25	25	4	6	44492.3	44492.3	0.52%	1.49	0.10	1.59	12.70	25	5	14.30	NCHSLT
NAB056_4-25	25	4	6	48525.8	48525.8	0.94%	1.85	0.06	1.91	8.91	20	4	10.82	NCHSLT
NAB066_4-25	25	4	6	38834.4	38834.4	1.01%	1.37	0.06	1.43	3.09	25	5	4.52	NCHSLT
NAB076_4-25	25	4	6	44035.3	44035.3	0.60%	1.54	0.17	1.72	19.91	25	5	21.63	NCHSLT
NAB086_4-25	25	4	6	40515.2	40515.2	0.21%	1.79	0.12	1.91	6.48	20	4	8.39	NCHSLT
NAB096_4-25	25	4	6	46677.3	46677.3	0.76%	1.52	0.10	1.63	11.94	20	4	13.57	NCHSLT
NAB0012_4-25	25	4	12	75758.5	75758.5	0.71%	6.30	0.18	6.48	108.22	51	9	114.70	NCHSLT
NAB0112_4-25	25	4	12	84037.1	84037.1	0.81%	7.43	0.17	7.60	127.93	52	9	135.54	NCHSLT
NAB0212_4-25	25	4	12	80262.8	80262.8	1.35%	7.74	0.17	7.92	157.56	58	10	165.48	NCHSLT
NAB0312_4-25	25	4	12	84287.3	84287.3	0.81%	6.28	0.12	6.40	67.33	63	11	73.92	NCHSLT
NAB0412_4-25	25	4	12	84826.1	84826.1	0.77%	5.91	0.30	6.22	59.34	86	15	65.57	NCHSLT
NAB0512_4-25	25	4	12	87581.7	87581.7	0.35%	4.22	0.20	4.41	114.19	93	16	118.61	NCHSLT
NAB0612_4-25	25	4	12	74598.3	74598.3	0.46%	4.59	0.17	4.76	79.05	81	14	83.82	NCHSLT
NAB0712_4-25	25	4	12	84612.7	84612.7	0.73%	6.98	0.20	7.19	80.38	57	10	87.57	NCHSLT
NAB0812_4-25	25	4	12	79183.3	79183.3	0.54%	6.39	0.15	6.54	88.40	58	10	94.94	NCHSLT
NAB0912_4-25	25	4	12	84988.9	84988.9	0.05%	4.23	0.08	4.31	28.31	68	12	32.62	NCHSLT
NAB0018_4-25	25	4	18	109877.5	109877.5	0.59%	18.96	0.32	19.28	120.14	68	9	139.42	NCHSLT
NAB0118_4-25	25	4	18	122365.5	122365.5	0.97%	19.07	0.32	19.39	341.27	120	16	360.66	NCHSLT
NAB0218_4-25	25	4	18	119071.0	119071.0	1.45%	20.79	0.26	21.06	298.92	84	11	319.98	NCHSLT
NAB0318_4-25	25	4	18	122651.5	122651.5	0.69%	20.27	0.22	20.49	121.01	74	10	141.50	NCHSLT
NAB0418_4-25	25	4	18	125169.2	125169.2	0.74%	13.94	0.18	14.13	164.09	90	12	178.22	NCHSLT
NAB0518_4-25	25	4	18	126875.3	126875.3	0.49%	17.74	0.18	17.92	139.47	90	12	157.39	NCHSLT
NAB0618_4-25	25	4	18	111220.8	111220.8	0.32%	11.17	0.17	11.34	97.31	90	12	108.65	NCHSLT
NAB0718_4-25	25	4	18	123103.8	123103.8	0.41%	18.48	0.18	18.66	79.77	60	8	98.44	NCHSLT
NAB0818_4-25	25	4	18	113412.8	113412.8	0.59%	18.23	0.27	18.51	145.94	60	8	164.45	NCHSLT
NAB0918_4-25	25	4	18	125191.5	125191.5	0.40%	13.41	0.36	13.78	114.29	90	12	128.12	NCHSLT
NAB006_4-50	50	4	6	81725.1	81725.1	0.06%	3.30	0.22	3.52	19.89	20	4	23.41	NCHSLT
NAB016_4-50	50	4	6	85113.2	85113.2	0.19%	2.91	0.14	3.05	5.34	15	3	8.40	NCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB026_4-50	50	4	6	87261.5	87261.5	0.31%	2.93	0.15	3.09	44.19	20	4	47.28	NCHSLT
NAB036_4-50	50	4	6	88245.5	88245.5	0.33%	2.56	0.18	2.74	18.34	20	4	21.08	NCHSLT
NAB046_4-50	50	4	6	94718.5	94718.5	0.39%	3.15	0.16	3.31	26.73	15	3	30.04	NCHSLT
NAB056_4-50	50	4	6	89784.8	89784.8	0.55%	2.89	0.23	3.14	27.16	20	4	30.30	NCHSLT
NAB066_4-50	50	4	6	80244.4	80244.4	0.41%	2.36	0.24	2.60	5.15	15	3	7.75	NCHSLT
NAB076_4-50	50	4	6	84169.3	84169.3	0.46%	2.87	0.41	3.29	19.88	20	4	23.17	NCHSLT
NAB086_4-50	50	4	6	84507.3	84507.3	0.75%	2.80	0.22	3.02	28.01	25	5	31.03	NCHSLT
NAB096_4-50	50	4	6	94638.7	94638.7	0.06%	3.21	0.12	3.34	13.68	20	4	17.02	NCHSLT
NAB0012_4-50	50	4	12	160158.9	160158.9	0.26%	9.36	0.17	9.54	155.85	64	11	165.40	NCHSLT
NAB0112_4-50	50	4	12	158190.4	158190.4	0.41%	9.37	0.44	9.82	126.11	63	11	135.93	NCHSLT
NAB0212_4-50	50	4	12	159347.7	159347.7	0.33%	12.93	0.27	13.20	155.69	57	10	168.90	NCHSLT
NAB0312_4-50	50	4	12	166892.3	166892.3	0.36%	10.02	0.29	10.31	273.79	110	19	284.10	NCHSLT
NAB0412_4-50	50	4	12	171898.6	171898.6	0.45%	9.98	0.41	10.40	230.10	75	13	240.50	NCHSLT
NAB0512_4-50	50	4	12	165390.5	165390.5	0.26%	12.14	0.47	12.61	159.61	103	18	172.22	NCHSLT
NAB0612_4-50	50	4	12	150820.6	150820.6	0.25%	6.75	0.32	7.08	64.13	69	12	71.22	NCHSLT
NAB0712_4-50	50	4	12	162725.1	162725.1	0.35%	11.04	0.30	11.35	186.19	69	12	197.55	NCHSLT
NAB0812_4-50	50	4	12	157864.2	157864.2	0.37%	9.71	0.30	10.02	63.41	29	5	73.43	NCHSLT
NAB0912_4-50	50	4	12	172933.8	172933.8	0.23%	10.00	0.24	10.24	57.67	52	9	67.92	NCHSLT
NAB0018_4-50	50	4	18	229063.6	229063.6	0.35%	21.49	0.62	22.11	204.06	82	11	226.18	NCHSLT
NAB0118_4-50	50	4	18	233387.0	233387.0	0.38%	26.46	0.75	27.22	284.17	106	14	311.39	NCHSLT
NAB0218_4-50	50	4	18	238863.2	238863.2	0.38%	24.63	0.48	25.11	259.97	68	9	285.09	NCHSLT
NAB0318_4-50	50	4	18	243760.3	243760.3	0.24%	24.66	0.62	25.29	187.11	76	10	212.41	NCHSLT
NAB0418_4-50	50	4	18	254952.5	254952.5	0.67%	24.90	1.05	25.96	221.93	46	6	247.89	NCHSLT
NAB0518_4-50	50	4	18	244838.7	244838.7	0.35%	19.37	0.37	19.76	155.56	60	8	175.32	NCHSLT
NAB0618_4-50	50	4	18	224473.7	224473.7	0.16%	21.33	0.44	21.78	64.51	68	9	86.30	NCHSLT
NAB0718_4-50	50	4	18	242010.4	242010.4	0.47%	22.93	0.56	23.50	369.23	98	13	392.74	NCHSLT
NAB0818_4-50	50	4	18	228694.8	228694.8	0.34%	21.82	0.54	22.37	203.95	76	10	226.33	NCHSLT
NAB0918_4-50	50	4	18	252231.5	252231.5	0.25%	20.75	0.43	21.19	295.48	130	17	316.68	NCHSLT
NAB006_6-6	6	6	6	10034.7	10034.7	2.73%	0.95	0.05	1.00	0.56	15	3	1.56	NCHSLT
NAB016_6-6	6	6	6	13689.5	13689.5	1.69%	1.20	0.09	1.29	1.77	30	6	3.06	NCHSLT
NAB026_6-6	6	6	6	12420.5	12420.5	0.86%	0.90	0.05	0.95	0.43	10	2	1.39	NCHSLT
NAB036_6-6	6	6	6	14546.5	14546.5	3.66%	0.84	0.08	0.91	0.46	15	3	1.38	NCHSLT
NAB046_6-6	6	6	6	14816.0	14816.0	4.81%	1.13	0.05	1.18	0.95	20	4	2.13	NCHSLT
NAB056_6-6	6	6	6	17674.5	17674.5	3.69%	0.96	0.05	1.02	0.63	10	2	1.65	NCHSLT
NAB066_6-6	6	6	6	11865.4	11865.4	0.77%	0.56	0.05	0.60	0.59	15	3	1.21	NCHSLT
NAB076_6-6	6	6	6	15854.8	15854.8	1.81%	1.04	0.05	1.08	0.64	15	3	1.72	NCHSLT
NAB086_6-6	6	6	6	15693.7	15693.7	4.38%	1.05	0.05	1.10	1.08	20	4	2.18	NCHSLT
NAB096_6-6	6	6	6	16676.2	16676.2	1.15%	0.81	0.04	0.85	2.65	25	5	3.50	NCHSLT
NAB0012_6-6	6	6	12	20190.7	20190.7	0.06%	6.18	0.11	6.29	3.38	35	6	9.67	NCHSLT
NAB0112_6-6	6	6	12	25397.2	25397.2	0.49%	5.26	0.16	5.43	5.93	40	7	11.36	NCHSLT
NAB0212_6-6	6	6	12	24536.5	24536.5	0.73%	5.09	0.09	5.17	3.52	40	7	8.69	NCHSLT
NAB0312_6-6	6	6	12	27489.2	27489.2	0.00%	6.54	0.13	6.67	2.95	40	7	9.62	NCHSLT
NAB0412_6-6	6	6	12	27344.1	27344.1	0.13%	6.56	0.17	6.73	3.62	40	7	10.34	NCHSLT
NAB0512_6-6	6	6	12	29730.0	29730.0	0.57%	4.39	0.09	4.48	10.10	68	12	14.58	NCHSLT
NAB0612_6-6	6	6	12	24139.5	24139.5	1.42%	4.46	0.09	4.55	8.62	40	7	13.17	NCHSLT
NAB0712_6-6	6	6	12	29439.0	29439.0	1.20%	6.03	0.11	6.14	12.02	45	8	18.17	NCHSLT
NAB0812_6-6	6	6	12	27664.7	27664.7	1.83%	5.68	0.15	5.83	7.97	51	9	13.80	NCHSLT
NAB0912_6-6	6	6	12	30631.3	30631.3	0.50%	6.75	0.09	6.85	5.02	51	9	11.87	NCHSLT
NAB0018_6-6	6	6	18	29863.4	29863.4	0.96%	23.40	0.15	23.55	11.37	52	7	34.92	NCHSLT
NAB0118_6-6	6	6	18	570537683.2	570537684.0	117.53%	21.49	0.39	21.88	13.64	38	5	35.52	NCHSLT
NAB0218_6-6	6	6	18	33204.5	33204.5	0.50%	22.01	0.16	22.17	5.58	52	7	27.76	NCHSLT
NAB0318_6-6	6	6	18	38911.1	38911.1	0.02%	27.17	0.21	27.38	9.73	90	12	37.11	NCHSLT
NAB0418_6-6	6	6	18	39773.0	39773.0	0.14%	38.42	0.19	38.61	14.72	66	9	53.34	NCHSLT
NAB0518_6-6	6	6	18	45337.8	45337.8	1.32%	17.88	0.18	18.06	12.99	46	6	31.05	NCHSLT
NAB0618_6-6	6	6	18	34305.2	34305.2	0.26%	10.63	0.13	10.76	5.82	52	7	16.58	NCHSLT
NAB0718_6-6	6	6	18	43128.8	43128.8	1.02%	19.26	0.18	19.45	15.12	60	8	34.57	NCHSLT
NAB0818_6-6	6	6	18	43899.0	43899.0	1.44%	20.48	0.30	20.78	27.67	114	15	48.45	NCHSLT
NAB0918_6-6	6	6	18	47235.8	47235.8	0.50%	22.04	0.30	22.34	14.79	46	6	37.13	NCHSLT
NAB006_6-12	12	6	6	20800.5	20800.5	0.68%	1.51	0.06	1.58	4.15	15	3	5.73	NCHSLT
NAB016_6-12	12	6	6	21291.6	21291.6	0.53%	1.37	0.10	1.47	7.41	25	5	8.88	NCHSLT
NAB026_6-12	12	6	6	20353.6	20353.6	1.95%	1.91	0.09	2.00	6.40	20	4	8.40	NCHSLT
NAB036_6-12	12	6	6	20892.6	20892.6	0.27%	1.21	0.08	1.29	2.76	20	4	4.05	NCHSLT
NAB046_6-12	12	6	6	19444.1	19444.1	1.99%	1.55	0.06	1.61	1.17	15	3	2.79	NCHSLT
NAB056_6-12	12	6	6	20780.5	20780.5	1.23%	1.10	0.04	1.15	2.43	20	4	3.58	NCHSLT
NAB066_6-12	12	6	6	18601.8	18601.8	0.41%	1.19	0.11	1.30	1.93	20	4	3.23	NCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB076_6-12	12	6	6	24721.3	24721.3	1.66%	1.59	0.16	1.75	8.53	20	4	10.28	NCHSLT
NAB086_6-12	12	6	6	21529.5	21529.5	2.07%	1.56	0.05	1.62	2.12	15	3	3.74	NCHSLT
NAB096_6-12	12	6	6	24451.7	24451.7	0.16%	1.92	0.06	1.98	2.01	20	4	4.00	NCHSLT
NAB0012_6-12	12	6	12	38415.5	38415.5	0.62%	10.83	0.21	11.03	16.61	63	11	27.65	NCHSLT
NAB0112_6-12	12	6	12	41125.8	41125.8	1.04%	7.70	0.15	7.85	18.00	35	6	25.85	NCHSLT
NAB0212_6-12	12	6	12	38925.2	38925.2	1.16%	6.89	0.24	7.13	107.88	69	12	115.02	NCHSLT
NAB0312_6-12	12	6	12	41208.2	41208.2	0.74%	5.92	0.26	6.19	34.73	97	17	40.92	NCHSLT
NAB0412_6-12	12	6	12	36816.8	36816.8	0.56%	8.54	0.16	8.69	32.15	51	9	40.85	NCHSLT
NAB0512_6-12	12	6	12	42806.7	42806.7	0.53%	8.80	0.21	9.02	13.24	51	9	22.26	NCHSLT
NAB0612_6-12	12	6	12	35181.5	35181.5	0.24%	4.81	0.12	4.94	8.60	63	11	13.53	NCHSLT
NAB0712_6-12	12	6	12	48724.3	48724.3	1.96%	8.76	0.18	8.94	92.68	63	11	101.63	NCHSLT
NAB0812_6-12	12	6	12	40665.1	40665.1	2.31%	6.31	0.32	6.64	31.61	51	9	38.25	NCHSLT
NAB0912_6-12	12	6	12	44947.9	44947.9	0.85%	6.49	0.16	6.65	25.93	63	11	32.58	NCHSLT
NAB0018_6-12	12	6	18	57531.5	57531.5	0.73%	27.25	0.17	27.42	35.53	60	8	62.95	NCHSLT
NAB0118_6-12	12	6	18	62811.0	62811.0	0.56%	28.31	0.19	28.50	49.29	62	8	77.79	NCHSLT
NAB0218_6-12	12	6	18	57054.3	57054.3	1.42%	22.33	0.25	22.59	78.75	62	8	101.33	NCHSLT
NAB0318_6-12	12	6	18	58722.6	58722.6	0.72%	16.74	0.20	16.95	30.82	74	10	47.77	NCHSLT
NAB0418_6-12	12	6	18	53407.1	53407.1	0.50%	19.90	0.25	20.16	25.38	60	8	45.54	NCHSLT
NAB0518_6-12	12	6	18	63994.0	63994.0	1.05%	23.42	0.24	23.67	94.28	150	20	117.96	NCHSLT
NAB0618_6-12	12	6	18	55423.9	55423.9	1.10%	17.71	0.33	18.04	34.24	68	9	52.29	NCHSLT
NAB0718_6-12	12	6	18	70357.1	70357.1	1.57%	27.53	0.45	27.98	172.37	82	11	200.36	NCHSLT
NAB0818_6-12	12	6	18	59370.3	59370.3	1.46%	21.98	0.31	22.29	45.88	52	7	68.18	NCHSLT
NAB0918_6-12	12	6	18	66650.7	66650.7	0.83%	26.44	0.33	26.78	57.28	60	8	84.05	NCHSLT
NAB006_6-25	25	6	6	40293.6	40293.6	0.47%	2.64	0.17	2.81	13.69	20	4	16.50	NCHSLT
NAB016_6-25	25	6	6	40671.3	40671.3	1.06%	2.35	0.20	2.56	31.79	30	6	34.35	NCHSLT
NAB026_6-25	25	6	6	42402.4	42402.4	0.59%	3.12	0.19	3.31	14.21	20	4	17.53	NCHSLT
NAB036_6-25	25	6	6	41451.8	41451.8	0.50%	3.38	0.12	3.50	16.20	15	3	19.70	NCHSLT
NAB046_6-25	25	6	6	44085.8	44085.8	1.33%	3.26	0.14	3.41	61.37	30	6	64.78	NCHSLT
NAB056_6-25	25	6	6	41188.3	41188.3	0.77%	2.13	0.10	2.23	25.72	25	5	27.96	NCHSLT
NAB066_6-25	25	6	6	39757.6	39757.6	0.49%	2.76	0.16	2.92	14.25	20	4	17.17	NCHSLT
NAB076_6-25	25	6	6	43337.6	43337.6	0.14%	2.56	0.10	2.66	7.30	20	4	9.97	NCHSLT
NAB086_6-25	25	6	6	41653.9	41653.9	0.65%	2.86	0.19	2.76	24.42	25	5	27.18	NCHSLT
NAB096_6-25	25	6	6	43576.6	43576.6	1.62%	2.49	0.14	2.63	23.90	25	5	26.53	NCHSLT
NAB0012_6-25	25	6	12	78056.6	78056.6	1.12%	11.70	0.32	12.02	117.29	69	12	129.31	NCHSLT
NAB0112_6-25	25	6	12	80695.9	80695.9	1.15%	12.21	0.59	12.81	163.43	63	11	176.24	NCHSLT
NAB0212_6-25	25	6	12	81138.6	81138.6	0.97%	13.59	0.30	13.90	156.66	86	15	170.56	NCHSLT
NAB0312_6-25	25	6	12	79144.0	79144.0	1.47%	13.82	0.23	14.05	171.14	57	10	185.19	NCHSLT
NAB0412_6-25	25	6	12	82404.3	82404.3	1.36%	13.45	0.62	14.08	213.21	69	12	227.29	NCHSLT
NAB0512_6-25	25	6	12	77812.2	77812.2	0.89%	8.41	0.45	8.87	154.30	80	14	163.17	NCHSLT
NAB0612_6-25	25	6	12	75467.8	75467.8	0.93%	13.54	0.35	13.90	158.78	75	13	172.68	NCHSLT
NAB0712_6-25	25	6	12	78751.2	78751.2	0.52%	12.21	0.19	12.41	33.90	63	11	46.31	NCHSLT
NAB0812_6-25	25	6	12	77134.5	77134.5	1.41%	8.83	0.39	9.23	169.90	86	15	179.13	NCHSLT
NAB0912_6-25	25	6	12	83724.1	83724.1	1.00%	10.89	0.28	11.18	153.29	69	12	164.47	NCHSLT
NAB0018_6-25	25	6	18	113396.2	113396.2	1.13%	28.66	1.16	29.83	262.12	98	13	291.96	NCHSLT
NAB0118_6-25	25	6	18	119110.7	119110.7	1.09%	37.70	0.54	38.24	207.47	92	12	245.71	NCHSLT
NAB0218_6-25	25	6	18	121903.2	121903.2	1.03%	35.58	0.84	36.42	228.25	68	9	264.68	NCHSLT
NAB0318_6-25	25	6	18	118583.6	118583.6	1.37%	46.81	0.34	47.15	292.93	68	9	340.09	NCHSLT
NAB0418_6-25	25	6	18	122202.2	122202.2	1.05%	29.71	0.34	30.06	220.74	68	9	250.81	NCHSLT
NAB0518_6-25	25	6	18	118965.7	118965.7	0.84%	29.40	0.63	30.03	140.75	68	9	170.79	NCHSLT
NAB0618_6-25	25	6	18	110546.3	110546.3	0.98%	26.54	0.47	27.02	136.04	62	8	163.06	NCHSLT
NAB0718_6-25	25	6	18	116023.3	116023.3	0.56%	27.12	0.45	27.58	100.54	68	9	128.13	NCHSLT
NAB0818_6-25	25	6	18	110859.9	110859.9	1.29%	24.74	0.42	25.17	231.85	84	11	257.03	NCHSLT
NAB0918_6-25	25	6	18	124429.0	124429.0	1.29%	32.23	0.60	32.83	407.85	98	13	440.68	NCHSLT
NAB006_6-50	50	6	6	75535.9	75535.9	0.48%	3.85	0.69	4.54	18.05	15	3	22.59	NCHSLT
NAB016_6-50	50	6	6	78632.3	78632.3	0.94%	4.21	0.46	4.68	55.93	20	4	60.61	NCHSLT
NAB026_6-50	50	6	6	81166.2	81166.2	0.83%	4.30	0.57	4.87	63.39	20	4	68.27	NCHSLT
NAB036_6-50	50	6	6	79105.6	79105.6	0.43%	4.45	0.43	4.88	35.03	20	4	39.91	NCHSLT
NAB046_6-50	50	6	6	82032.4	82032.4	0.99%	4.77	0.71	5.49	103.37	25	5	108.86	NCHSLT
NAB056_6-50	50	6	6	82661.8	82661.8	0.83%	4.48	0.34	4.83	163.03	40	8	167.85	NCHSLT
NAB066_6-50	50	6	6	79142.3	79142.3	0.78%	4.70	0.36	5.07	81.11	25	5	86.18	NCHSLT
NAB076_6-50	50	6	6	82528.9	82528.9	0.59%	4.78	0.18	4.96	31.79	20	4	36.76	NCHSLT
NAB086_6-50	50	6	6	77949.0	77949.0	0.79%	4.15	0.21	4.36	27.19	20	4	31.56	NCHSLT
NAB096_6-50	50	6	6	79069.2	79069.2	0.98%	4.14	0.33	4.47	78.43	25	5	82.90	NCHSLT
NAB0012_6-50	50	6	12	146776.7	146776.7	0.58%	14.75	0.52	15.28	241.40	69	12	256.69	NCHSLT
NAB0112_6-50	50	6	12	149645.3	149645.3	0.54%	15.80	0.63	16.44	268.32	93	16	284.76	NCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0212_6-50	50	6	12	154241.2	154241.2	0.66%	17.43	1.02	18.46	320.13	70	12	338.59	NCHSLT
NAB0312_6-50	50	6	12	152644.6	152644.6	0.52%	16.08	0.50	16.58	194.43	75	13	211.02	NCHSLT
NAB0412_6-50	50	6	12	159705.1	159705.1	0.61%	17.13	0.58	17.71	322.65	87	15	340.36	NCHSLT
NAB0512_6-50	50	6	12	157209.2	157209.2	0.59%	16.59	0.81	17.41	270.66	76	13	288.07	NCHSLT
NAB0612_6-50	50	6	12	148637.9	148637.9	0.79%	19.64	0.73	20.38	306.34	63	11	326.72	NCHSLT
NAB0712_6-50	50	6	12	157537.6	157537.6	0.47%	16.15	0.53	16.69	174.13	57	10	190.83	NCHSLT
NAB0812_6-50	50	6	12	144224.8	144224.8	0.45%	11.17	0.52	11.70	162.39	69	12	174.09	NCHSLT
NAB0912_6-50	50	6	12	151793.0	151793.0	0.47%	14.65	0.62	15.27	262.47	74	13	277.75	NCHSLT
NAB0018_6-50	50	6	18	216666.0	216666.0	0.42%	42.99	2.41	45.41	243.44	68	9	288.86	NCHSLT
NAB0118_6-50	50	6	18	219103.3	219103.3	0.38%	38.23	1.74	39.99	347.46	138	18	387.46	NCHSLT
NAB0218_6-50	50	6	18	225060.2	225060.2	0.66%	45.13	1.78	46.92	410.90	76	10	457.82	NCHSLT
NAB0318_6-50	50	6	18	226395.0	226486.4	0.42%	43.81	1.76	45.59	600.02	136	18	645.61	NCHSLT
NAB0418_6-50	50	6	18	236981.7	237216.5	0.61%	44.67	0.97	45.65	600.03	114	15	645.69	NCHSLT
NAB0518_6-50	50	6	18	226763.9	226763.9	0.68%	46.37	0.81	47.19	438.69	116	15	485.89	NCHSLT
NAB0618_6-50	50	6	18	220797.4	220827.6	0.83%	55.70	0.80	56.51	600.04	79	10	656.55	NCHSLT
NAB0718_6-50	50	6	18	230968.3	230968.3	0.48%	44.07	0.93	45.01	450.11	114	15	495.12	NCHSLT
NAB0818_6-50	50	6	18	215597.0	215597.0	0.42%	39.33	1.51	40.85	239.82	98	13	280.68	NCHSLT
NAB0918_6-50	50	6	18	225166.6	225166.6	0.61%	42.81	1.32	44.14	475.11	108	14	519.25	NCHSLT
NBA006_2-6	6	2	6	8039.6	8039.6	0.00%	0.32	0.02	0.34	0.32	15	3	0.66	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%	0.13	0.01	0.14	0.10	15	3	0.24	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%	0.19	0.02	0.21	0.16	10	2	0.37	NCLSHT
NBA036_2-6	6	2	6	7687.7	7687.7	0.00%	0.19	0.02	0.20	0.26	15	3	0.47	NCLSHT
NBA046_2-6	6	2	6	7736.2	7736.2	0.00%	0.37	0.02	0.39	0.21	10	2	0.60	NCLSHT
NBA056_2-6	6	2	6	9352.7	9352.7	0.12%	0.23	0.02	0.26	0.15	15	3	0.40	NCLSHT
NBA066_2-6	6	2	6	8003.7	8003.7	0.08%	0.21	0.02	0.23	0.18	15	3	0.41	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%	0.26	0.02	0.27	0.07	5	1	0.34	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%	0.26	0.01	0.27	0.21	15	3	0.48	NCLSHT
NBA096_2-6	6	2	6	7096.5	7096.5	0.11%	0.15	0.01	0.17	0.13	15	3	0.30	NCLSHT
NBA0012_2-6	6	2	12	15351.3	15351.3	0.00%	1.15	0.02	1.17	1.98	46	8	3.16	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%	0.86	0.02	0.88	0.74	34	6	1.63	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%	0.95	0.03	0.98	0.41	28	5	1.39	NCLSHT
NBA0312_2-6	6	2	12	14515.2	14515.2	0.00%	1.10	0.02	1.12	1.33	40	7	2.45	NCLSHT
NBA0412_2-6	6	2	12	13508.1	13508.1	0.19%	1.21	0.02	1.23	2.64	40	7	3.87	NCLSHT
NBA0512_2-6	6	2	12	17237.2	17237.2	0.00%	0.53	0.03	0.56	0.32	17	3	0.88	NCLSHT
NBA0612_2-6	6	2	12	14774.7	14774.7	0.03%	0.46	0.02	0.48	0.33	17	3	0.81	NCLSHT
NBA0712_2-6	6	2	12	16542.1	16542.1	0.00%	0.83	0.03	0.85	1.90	39	7	2.76	NCLSHT
NBA0812_2-6	6	2	12	14100.3	14100.3	0.00%	0.81	0.02	0.83	0.90	28	5	1.73	NCLSHT
NBA0912_2-6	6	2	12	16056.8	16056.8	0.00%	0.46	0.03	0.49	0.80	34	6	1.29	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%	2.84	0.03	2.88	3.87	44	6	6.75	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%	1.05	0.03	1.08	0.60	22	3	1.68	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%	2.17	0.04	2.21	1.47	30	4	3.68	NCLSHT
NBA0318_2-6	6	2	18	22932.5	22932.5	0.03%	2.57	0.03	2.61	2.19	52	7	4.80	NCLSHT
NBA0418_2-6	6	2	18	19868.0	19868.0	0.08%	3.08	0.03	3.11	3.75	44	6	6.86	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%	1.04	0.03	1.07	0.66	22	3	1.73	NCLSHT
NBA0618_2-6	6	2	18	22620.7	22620.7	0.00%	1.54	0.03	1.57	1.92	44	6	3.49	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%	3.10	0.05	3.15	3.17	44	6	6.31	NCLSHT
NBA0818_2-6	6	2	18	20730.4	20730.4	0.01%	1.89	0.04	1.93	2.58	60	8	4.51	NCLSHT
NBA0918_2-6	6	2	18	22402.4	22402.4	0.00%	0.95	0.04	0.98	0.96	30	4	1.94	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%	0.25	0.03	0.27	0.17	15	3	0.45	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%	0.33	0.02	0.35	0.27	15	3	0.62	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%	0.44	0.02	0.46	0.39	15	3	0.85	NCLSHT
NBA036_2-12	12	2	6	16320.8	16320.8	0.13%	0.30	0.03	0.32	0.27	15	3	0.60	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%	0.38	0.03	0.40	0.13	10	2	0.53	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%	0.25	0.02	0.27	0.13	10	2	0.40	NCLSHT
NBA066_2-12	12	2	6	13727.3	13727.3	0.00%	0.33	0.02	0.35	0.14	10	2	0.50	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%	0.27	0.01	0.28	0.05	5	1	0.33	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%	0.40	0.02	0.41	0.26	15	3	0.68	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%	0.52	0.02	0.54	0.51	15	3	1.05	NCLSHT
NBA0012_2-12	12	2	12	25998.2	25998.2	0.00%	0.61	0.03	0.65	0.88	39	7	1.53	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%	0.80	0.03	0.83	0.95	34	6	1.78	NCLSHT
NBA0212_2-12	12	2	12	26947.6	26947.6	0.06%	1.79	0.04	1.83	1.31	17	3	3.14	NCLSHT
NBA0312_2-12	12	2	12	31645.2	31645.2	0.00%	0.98	0.03	1.01	1.56	40	7	2.57	NCLSHT
NBA0412_2-12	12	2	12	28149.1	28149.1	0.00%	0.97	0.03	1.00	1.60	45	8	2.61	NCLSHT
NBA0512_2-12	12	2	12	31963.5	31963.5	0.00%	0.87	0.03	0.89	1.13	34	6	2.02	NCLSHT
NBA0612_2-12	12	2	12	27141.8	27141.8	0.03%	0.81	0.04	0.85	0.94	34	6	1.79	NCLSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0712_2-12	12	2	12	30159.8	30159.8	0.00%	0.88	0.03	0.92	0.97	40	7	1.89	NCLSHT
NBA0812_2-12	12	2	12	26595.4	26595.4	0.00%	1.44	0.03	1.48	3.56	56	10	5.04	NCLSHT
NBA0912_2-12	12	2	12	30769.9	30769.9	0.04%	1.62	0.04	1.66	10.38	45	8	12.04	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%	1.37	0.05	1.42	0.89	22	3	2.31	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%	2.26	0.03	2.29	2.82	44	6	5.12	NCLSHT
NBA0218_2-12	12	2	18	41233.6	41233.6	0.04%	4.27	0.05	4.33	6.34	38	5	10.67	NCLSHT
NBA0318_2-12	12	2	18	46064.5	46064.5	0.00%	1.94	0.07	2.02	1.74	22	3	3.76	NCLSHT
NBA0418_2-12	12	2	18	44030.3	44030.3	0.00%	1.88	0.04	1.92	2.82	38	5	4.74	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%	1.80	0.04	1.84	2.14	30	4	3.98	NCLSHT
NBA0618_2-12	12	2	18	40454.2	40454.2	0.00%	2.03	0.05	2.08	3.00	52	7	5.08	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%	1.56	0.04	1.61	2.43	44	6	4.03	NCLSHT
NBA0818_2-12	12	2	18	41119.5	41119.5	0.00%	3.85	0.07	3.91	4.52	44	6	8.43	NCLSHT
NBA0918_2-12	12	2	18	46895.1	46895.1	0.04%	3.95	0.06	4.02	9.86	52	7	13.88	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%	0.45	0.02	0.47	0.31	10	2	0.78	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%	0.65	0.04	0.69	0.31	10	2	1.00	NCLSHT
NBA026_2-25	25	2	6	28301.4	28301.4	0.03%	0.76	0.03	0.79	0.83	15	3	1.62	NCLSHT
NBA036_2-25	25	2	6	30085.3	30085.3	0.02%	0.62	0.03	0.65	0.50	15	3	1.15	NCLSHT
NBA046_2-25	25	2	6	31276.7	31276.7	0.03%	0.75	0.04	0.80	0.59	15	3	1.39	NCLSHT
NBA056_2-25	25	2	6	31274.3	31274.3	0.05%	0.66	0.03	0.69	0.98	15	3	1.67	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%	0.47	0.02	0.49	0.32	20	4	0.82	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%	0.90	0.05	0.95	0.44	10	2	1.39	NCLSHT
NBA086_2-25	25	2	6	31889.1	31889.1	0.04%	0.79	0.03	0.83	0.85	10	2	1.68	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%	0.80	0.05	0.85	0.58	15	3	1.43	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%	0.91	0.04	0.95	0.94	23	4	1.89	NCLSHT
NBA0112_2-25	25	2	12	60750.5	60750.5	0.00%	1.55	0.06	1.61	4.08	57	10	5.69	NCLSHT
NBA0212_2-25	25	2	12	56008.3	56008.3	0.05%	2.64	0.06	2.70	6.95	57	10	9.65	NCLSHT
NBA0312_2-25	25	2	12	59036.2	59036.2	0.01%	2.15	0.05	2.20	3.69	46	8	5.89	NCLSHT
NBA0412_2-25	25	2	12	59434.9	59434.9	0.00%	2.12	0.07	2.18	2.54	34	6	4.73	NCLSHT
NBA0512_2-25	25	2	12	64657.9	64657.9	0.01%	2.41	0.07	2.48	3.78	46	8	6.26	NCLSHT
NBA0612_2-25	25	2	12	57093.1	57093.1	0.00%	1.17	0.05	1.22	1.09	28	5	2.32	NCLSHT
NBA0712_2-25	25	2	12	62593.4	62593.4	0.00%	2.15	0.05	2.20	2.07	29	5	4.27	NCLSHT
NBA0812_2-25	25	2	12	62481.7	62481.7	0.03%	2.79	0.06	2.85	5.20	23	4	8.05	NCLSHT
NBA0912_2-25	25	2	12	63780.2	63780.2	0.00%	1.48	0.04	1.52	1.82	34	6	3.34	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%	1.28	0.11	1.39	1.94	30	4	3.34	NCLSHT
NBA0118_2-25	25	2	18	88423.4	88423.4	0.00%	3.66	0.07	3.73	3.98	44	6	7.72	NCLSHT
NBA0218_2-25	25	2	18	82860.4	82860.4	0.00%	4.27	0.06	4.33	8.68	44	6	13.02	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%	3.23	0.16	3.39	5.12	38	5	8.51	NCLSHT
NBA0418_2-25	25	2	18	90277.8	90277.8	0.01%	5.03	0.09	5.13	5.87	30	4	11.00	NCLSHT
NBA0518_2-25	25	2	18	94606.7	94606.7	0.00%	4.60	0.09	4.70	13.83	52	7	18.52	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%	0.97	0.09	1.07	1.52	30	4	2.59	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%	5.15	0.08	5.23	8.28	58	8	13.51	NCLSHT
NBA0818_2-25	25	2	18	91131.8	91131.8	0.04%	5.59	0.09	5.68	17.66	60	8	23.34	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%	3.13	0.11	3.24	5.43	44	6	8.68	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%	0.90	0.03	0.93	0.65	15	3	1.58	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%	0.98	0.04	1.03	0.46	10	2	1.49	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%	1.06	0.03	1.09	1.07	15	3	2.16	NCLSHT
NBA036_2-50	50	2	6	59061.8	59061.8	0.00%	1.11	0.03	1.14	0.54	10	2	1.69	NCLSHT
NBA046_2-50	50	2	6	60545.4	60545.4	0.02%	1.31	0.03	1.34	0.96	15	3	2.30	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%	1.09	0.04	1.13	0.42	10	2	1.56	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%	0.89	0.03	0.91	0.45	10	2	1.37	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%	0.94	0.05	0.99	0.46	10	2	1.46	NCLSHT
NBA086_2-50	50	2	6	59808.4	59808.4	0.06%	1.29	0.03	1.33	1.72	20	4	3.04	NCLSHT
NBA096_2-50	50	2	6	60440.5	60440.5	0.00%	1.24	0.03	1.27	0.90	15	3	2.17	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%	1.65	0.06	1.71	1.11	17	3	2.82	NCLSHT
NBA0112_2-50	50	2	12	119722.8	119722.8	0.00%	2.37	0.05	2.43	2.59	34	6	5.02	NCLSHT
NBA0212_2-50	50	2	12	113771.1	113771.1	0.00%	2.87	0.10	2.98	4.82	17	3	7.80	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%	2.12	0.07	2.20	1.59	17	3	3.79	NCLSHT
NBA0412_2-50	50	2	12	121769.2	121769.2	0.01%	2.98	0.09	3.08	8.84	63	11	11.92	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%	2.10	0.05	2.16	2.40	17	3	4.56	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%	2.01	0.09	2.10	1.47	17	3	3.57	NCLSHT
NBA0712_2-50	50	2	12	114482.7	114482.7	0.00%	2.16	0.05	2.22	4.62	34	6	6.84	NCLSHT
NBA0812_2-50	50	2	12	115041.0	115041.0	0.01%	4.07	0.06	4.14	12.70	51	9	16.84	NCLSHT
NBA0912_2-50	50	2	12	122205.8	122205.8	0.00%	3.27	0.08	3.36	3.13	34	6	6.49	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%	2.99	0.12	3.11	3.77	30	4	6.89	NCLSHT
NBA0118_2-50	50	2	18	178654.3	178654.3	0.00%	3.04	0.26	3.31	8.84	58	8	12.15	NCLSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0218_2-50	50	2	18	169380.0	169380.0	0.00%	5.51	0.16	5.67	10.23	52	7	15.91	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%	3.73	0.12	3.86	6.32	30	4	10.19	NCLSHT
NBA0418_2-50	50	2	18	181173.8	181173.8	0.02%	8.60	0.10	8.70	15.67	38	5	24.38	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%	3.10	0.15	3.25	2.78	22	3	6.03	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%	3.82	0.09	3.91	4.73	30	4	8.65	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%	3.82	0.13	3.95	7.57	38	5	11.53	NCLSHT
NBA0818_2-50	50	2	18	173121.0	173121.0	0.01%	6.52	0.12	6.65	17.96	60	8	24.61	NCLSHT
NBA0918_2-50	50	2	18	182592.7	182592.7	0.00%	5.59	0.10	5.70	8.57	44	6	14.27	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%	0.26	0.03	0.29	0.19	15	3	0.48	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%	0.55	0.02	0.58	0.17	10	2	0.75	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%	0.44	0.03	0.47	0.13	10	2	0.60	NCLSHT
NBA036_4-6	6	4	6	6633.5	6633.5	0.21%	0.63	0.06	0.69	0.32	10	2	1.01	NCLSHT
NBA046_4-6	6	4	6	5447.3	5447.3	0.31%	0.32	0.02	0.35	0.15	15	3	0.50	NCLSHT
NBA056_4-6	6	4	6	7730.1	7730.1	0.38%	0.52	0.03	0.55	0.34	15	3	0.89	NCLSHT
NBA066_4-6	6	4	6	6284.0	6284.0	0.26%	0.50	0.02	0.52	0.25	10	2	0.78	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%	0.59	0.02	0.61	0.21	15	3	0.82	NCLSHT
NBA086_4-6	6	4	6	5792.0	5792.0	0.00%	0.59	0.02	0.61	0.24	15	3	0.85	NCLSHT
NBA096_4-6	6	4	6	8498.8	8498.8	0.20%	0.57	0.02	0.59	0.31	10	2	0.91	NCLSHT
NBA0012_4-6	6	4	12	11580.9	11580.9	0.00%	1.33	0.04	1.37	0.73	29	5	2.10	NCLSHT
NBA0112_4-6	6	4	12	15058.8	15058.8	0.01%	3.03	0.05	3.08	6.23	51	9	9.31	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%	1.93	0.05	1.98	0.88	23	4	2.87	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%	1.77	0.05	1.82	1.39	34	6	3.21	NCLSHT
NBA0412_4-6	6	4	12	12588.2	12588.2	0.13%	1.92	0.05	1.97	1.96	29	5	3.93	NCLSHT
NBA0512_4-6	6	4	12	15592.7	15592.7	0.00%	2.71	0.05	2.76	4.19	45	8	6.96	NCLSHT
NBA0612_4-6	6	4	12	12650.3	12650.3	0.21%	2.94	0.04	2.98	1.74	29	5	4.72	NCLSHT
NBA0712_4-6	6	4	12	14536.2	14536.2	0.02%	1.97	0.03	2.00	1.30	28	5	3.31	NCLSHT
NBA0812_4-6	6	4	12	12165.7	12165.7	0.00%	1.72	0.07	1.79	1.41	23	4	3.20	NCLSHT
NBA0912_4-6	6	4	12	14700.4	14700.4	0.00%	2.61	0.03	2.64	1.29	41	7	3.94	NCLSHT
NBA0018_4-6	6	4	18	18430.2	18430.2	0.00%	2.41	0.09	2.50	2.06	30	4	4.56	NCLSHT
NBA0118_4-6	6	4	18	21321.9	21321.9	0.00%	7.02	0.06	7.07	7.13	58	8	14.20	NCLSHT
NBA0218_4-6	6	4	18	21169.6	21169.6	0.00%	5.65	0.06	5.71	3.40	44	6	9.11	NCLSHT
NBA0318_4-6	6	4	18	21681.1	21681.1	0.03%	4.77	0.09	4.86	4.11	52	7	8.98	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%	3.62	0.06	3.69	1.84	22	3	5.53	NCLSHT
NBA0518_4-6	6	4	18	23051.6	23051.6	0.15%	5.86	0.07	5.93	6.60	38	5	12.53	NCLSHT
NBA0618_4-6	6	4	18	19491.6	19491.6	0.07%	6.98	0.09	7.08	7.46	44	6	14.54	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%	4.09	0.06	4.15	2.27	30	4	6.43	NCLSHT
NBA0818_4-6	6	4	18	18069.1	18069.1	0.02%	4.02	0.06	4.08	5.36	44	6	9.44	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%	6.17	0.08	6.25	2.01	30	4	8.26	NCLSHT
NBA006_4-12	12	4	6	13165.9	13165.9	0.09%	0.78	0.05	0.83	1.21	20	4	2.04	NCLSHT
NBA016_4-12	12	4	6	15317.7	15317.7	0.05%	1.02	0.03	1.06	1.72	20	4	2.78	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%	0.57	0.02	0.60	0.31	10	2	0.92	NCLSHT
NBA036_4-12	12	4	6	12255.8	12255.8	0.31%	0.79	0.05	0.84	0.61	15	3	1.46	NCLSHT
NBA046_4-12	12	4	6	14321.8	14321.8	0.31%	0.46	0.03	0.49	0.63	15	3	1.11	NCLSHT
NBA056_4-12	12	4	6	14092.9	14092.9	0.00%	0.65	0.03	0.69	0.59	10	2	1.28	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%	0.53	0.02	0.56	0.34	20	4	0.90	NCLSHT
NBA076_4-12	12	4	6	12417.0	12417.0	0.06%	0.57	0.02	0.60	0.42	10	2	1.02	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%	0.61	0.04	0.65	0.61	15	3	1.25	NCLSHT
NBA096_4-12	12	4	6	13215.7	13215.7	0.26%	0.71	0.03	0.74	1.15	15	3	1.89	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%	2.76	0.05	2.82	3.89	46	8	6.71	NCLSHT
NBA0112_4-12	12	4	12	28359.0	28359.0	0.00%	4.61	0.06	4.67	5.50	23	4	10.18	NCLSHT
NBA0212_4-12	12	4	12	26394.4	26394.4	0.00%	2.05	0.05	2.10	4.28	57	10	6.39	NCLSHT
NBA0312_4-12	12	4	12	25275.1	25275.1	0.00%	1.48	0.09	1.57	3.18	40	7	4.75	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%	1.89	0.05	1.94	2.66	34	6	4.60	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%	1.88	0.25	2.14	2.76	40	7	4.90	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%	1.08	0.04	1.12	1.12	29	5	2.24	NCLSHT
NBA0712_4-12	12	4	12	26163.0	26163.0	0.03%	1.95	0.09	2.04	5.74	52	9	7.78	NCLSHT
NBA0812_4-12	12	4	12	27994.2	27994.2	0.00%	2.45	0.06	2.51	1.37	17	3	3.88	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%	3.20	0.09	3.29	7.04	23	4	10.33	NCLSHT
NBA0018_4-12	12	4	18	38035.7	38035.7	0.02%	6.63	0.09	6.73	7.87	30	4	14.60	NCLSHT
NBA0118_4-12	12	4	18	41645.7	41645.7	0.20%	14.03	0.16	14.19	24.64	36	5	38.83	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%	4.86	0.08	4.94	4.53	30	4	9.47	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%	5.60	0.09	5.70	7.00	38	5	12.69	NCLSHT
NBA0418_4-12	12	4	18	40569.9	40569.9	0.00%	3.97	0.14	4.12	13.83	30	4	17.94	NCLSHT
NBA0518_4-12	12	4	18	41007.9	41007.9	0.01%	5.23	0.16	5.39	12.78	44	6	18.17	NCLSHT
NBA0618_4-12	12	4	18	37066.0	37066.0	0.00%	3.76	0.08	3.85	4.42	46	6	8.27	NCLSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0718_4-12	12	4	18	41034.4	41034.4	0.00%	9.68	0.08	9.77	7.89	30	4	17.66	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%	3.56	0.07	3.63	3.92	30	4	7.56	NCLSHT
NBA0918_4-12	12	4	18	41443.2	41443.2	0.18%	7.87	0.10	7.98	17.97	30	4	25.95	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%	1.24	0.05	1.29	0.73	10	2	2.02	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%	1.30	0.05	1.35	0.97	10	2	2.32	NCLSHT
NBA026_4-25	25	4	6	27548.3	27548.3	0.00%	0.94	0.03	0.98	0.78	15	3	1.76	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%	1.52	0.05	1.57	1.92	20	4	3.49	NCLSHT
NBA046_4-25	25	4	6	26618.5	26618.5	0.01%	0.80	0.04	0.85	0.67	15	3	1.51	NCLSHT
NBA056_4-25	25	4	6	30139.4	30139.4	0.10%	1.07	0.03	1.10	0.91	10	2	2.01	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%	0.84	0.03	0.87	0.28	10	2	1.15	NCLSHT
NBA076_4-25	25	4	6	26942.8	26942.8	0.02%	1.24	0.04	1.29	2.45	20	4	3.73	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%	1.01	0.04	1.06	0.71	15	3	1.77	NCLSHT
NBA096_4-25	25	4	6	27876.1	27876.1	0.10%	1.56	0.03	1.60	1.96	20	4	3.55	NCLSHT
NBA0012_4-25	25	4	12	53574.6	53574.6	0.00%	3.98	0.08	4.06	19.22	85	15	23.28	NCLSHT
NBA0112_4-25	25	4	12	56256.3	56256.3	0.00%	3.20	0.11	3.31	6.61	51	9	9.93	NCLSHT
NBA0212_4-25	25	4	12	53157.9	53157.9	0.00%	2.82	0.17	2.99	4.89	29	5	7.88	NCLSHT
NBA0312_4-25	25	4	12	53948.2	53948.2	0.02%	3.71	0.11	3.82	7.45	46	8	11.27	NCLSHT
NBA0412_4-25	25	4	12	54866.3	54866.3	0.00%	2.02	0.10	2.12	3.95	28	5	6.08	NCLSHT
NBA0512_4-25	25	4	12	57056.2	57056.2	0.05%	2.29	0.15	2.45	7.21	57	10	9.67	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%	1.82	0.06	1.88	1.67	23	4	3.55	NCLSHT
NBA0712_4-25	25	4	12	55377.9	55377.9	0.00%	4.48	0.07	4.55	12.68	51	9	17.24	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%	2.71	0.06	2.77	4.30	34	6	7.07	NCLSHT
NBA0912_4-25	25	4	12	54755.1	54755.1	0.02%	3.84	0.08	3.93	9.01	51	9	12.95	NCLSHT
NBA0018_4-25	25	4	18	77879.2	77879.2	0.03%	8.06	0.21	8.27	20.76	30	4	29.04	NCLSHT
NBA0118_4-25	25	4	18	83801.3	83801.3	0.00%	5.74	0.11	5.85	11.47	52	7	17.33	NCLSHT
NBA0218_4-25	25	4	18	80776.0	80776.0	0.00%	5.66	0.12	5.78	14.77	38	5	20.56	NCLSHT
NBA0318_4-25	25	4	18	80251.8	80251.8	0.01%	6.30	0.32	6.62	7.00	30	4	13.62	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%	2.98	0.12	3.11	3.69	30	4	6.80	NCLSHT
NBA0518_4-25	25	4	18	84246.8	84246.8	0.01%	6.28	0.18	6.46	15.07	60	8	21.53	NCLSHT
NBA0618_4-25	25	4	18	77312.2	77312.2	0.01%	3.76	0.12	3.89	3.72	30	4	7.61	NCLSHT
NBA0718_4-25	25	4	18	82397.9	82397.9	0.04%	9.13	0.13	9.26	30.67	66	9	39.93	NCLSHT
NBA0818_4-25	25	4	18	78378.5	78378.5	0.00%	6.87	0.11	6.98	11.75	66	9	18.74	NCLSHT
NBA0918_4-25	25	4	18	82208.9	82208.9	0.01%	8.06	0.12	8.19	11.24	22	3	19.43	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%	1.64	0.05	1.69	0.98	15	3	2.67	NCLSHT
NBA016_4-50	50	4	6	55362.7	55362.7	0.02%	1.91	0.09	2.00	1.02	15	3	3.03	NCLSHT
NBA026_4-50	50	4	6	55982.7	55982.7	0.00%	1.53	0.05	1.58	1.34	20	4	2.93	NCLSHT
NBA036_4-50	50	4	6	55109.6	55109.6	0.04%	2.40	0.09	2.49	2.23	15	3	4.72	NCLSHT
NBA046_4-50	50	4	6	56694.8	56694.8	0.05%	2.04	0.13	2.16	7.57	20	4	9.74	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%	0.95	0.10	1.05	1.20	20	4	2.25	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%	1.42	0.06	1.68	0.93	15	3	2.61	NCLSHT
NBA076_4-50	50	4	6	51567.7	51567.7	0.00%	1.53	0.10	1.63	1.63	20	4	3.26	NCLSHT
NBA086_4-50	50	4	6	52836.7	52836.7	0.01%	1.38	0.07	1.45	1.28	10	2	2.74	NCLSHT
NBA096_4-50	50	4	6	60110.3	60110.3	0.02%	1.56	0.06	1.63	1.43	20	4	3.08	NCLSHT
NBA0012_4-50	50	4	12	110284.5	110284.5	0.01%	4.82	0.17	5.00	26.17	34	6	31.17	NCLSHT
NBA0112_4-50	50	4	12	108409.8	108409.8	0.00%	3.72	0.11	3.83	6.97	40	7	10.80	NCLSHT
NBA0212_4-50	50	4	12	107884.9	107884.9	0.00%	4.27	0.30	4.63	8.40	40	7	13.03	NCLSHT
NBA0312_4-50	50	4	12	109984.8	109984.8	0.00%	5.75	0.16	5.92	20.14	57	10	26.06	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%	4.15	0.13	4.29	15.20	40	7	19.49	NCLSHT
NBA0512_4-50	50	4	12	111970.9	111970.9	0.00%	3.78	0.14	3.92	9.08	51	9	13.01	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%	2.14	0.09	2.24	5.06	40	7	7.30	NCLSHT
NBA0712_4-50	50	4	12	106401.2	106401.2	0.00%	5.81	0.11	5.92	19.60	46	8	25.53	NCLSHT
NBA0812_4-50	50	4	12	106458.2	106458.2	0.00%	2.70	0.11	2.81	4.66	34	6	7.48	NCLSHT
NBA0912_4-50	50	4	12	114310.5	114310.5	0.01%	4.09	0.38	4.47	11.36	57	10	15.84	NCLSHT
NBA0018_4-50	50	4	18	159938.8	159938.8	0.00%	9.01	0.20	9.22	18.08	60	8	27.30	NCLSHT
NBA0118_4-50	50	4	18	161690.1	161690.1	0.00%	7.29	0.32	7.62	11.02	22	3	18.65	NCLSHT
NBA0218_4-50	50	4	18	162670.8	162670.8	0.01%	8.90	0.29	9.20	34.25	30	4	43.45	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%	13.18	0.19	13.38	17.15	36	5	30.54	NCLSHT
NBA0418_4-50	50	4	18	166161.4	166161.4	0.02%	10.63	0.18	10.82	26.35	44	6	37.18	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%	5.95	0.25	6.20	15.95	52	7	22.16	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%	5.89	0.18	6.08	8.20	30	4	14.29	NCLSHT
NBA0718_4-50	50	4	18	161470.1	161470.1	0.06%	16.99	0.23	17.22	81.19	52	7	98.41	NCLSHT
NBA0818_4-50	50	4	18	157274.1	157274.1	0.00%	4.74	0.21	4.95	13.12	60	8	18.08	NCLSHT
NBA0918_4-50	50	4	18	168448.0	168448.0	0.01%	6.29	0.21	6.50	13.91	30	4	20.42	NCLSHT
NBA006_6-6	6	6	6	5607.2	5607.2	0.00%	0.51	0.05	0.56	0.23	15	3	0.79	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%	1.09	0.06	1.15	0.64	15	3	1.79	NCLSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA026_6-6	6	6	6	6971.5	6971.5	0.46%	0.71	0.04	0.76	0.32	15	3	1.08	NCLSHT
NBA036_6-6	6	6	6	7315.9	7315.9	0.00%	0.70	0.03	0.74	0.38	15	3	1.12	NCLSHT
NBA046_6-6	6	6	6	8017.1	8017.1	0.00%	1.51	0.05	1.56	0.68	15	3	2.25	NCLSHT
NBA056_6-6	6	6	6	7927.1	7927.1	0.20%	1.21	0.07	1.28	0.78	15	3	2.06	NCLSHT
NBA066_6-6	6	6	6	6664.3	6664.3	0.06%	0.49	0.03	0.52	0.27	10	2	0.79	NCLSHT
NBA076_6-6	6	6	6	7695.6	7695.6	0.00%	1.21	0.04	1.24	0.50	15	3	1.75	NCLSHT
NBA086_6-6	6	6	6	6624.8	6624.8	0.00%	0.88	0.03	0.91	0.48	15	3	1.39	NCLSHT
NBA096_6-6	6	6	6	7393.0	7393.0	0.03%	1.08	0.06	1.14	0.44	15	3	1.58	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%	1.68	0.06	1.74	0.78	34	6	2.52	NCLSHT
NBA0112_6-6	6	6	12	14045.8	14045.8	0.01%	4.05	0.23	4.28	5.65	29	5	9.93	NCLSHT
NBA0212_6-6	6	6	12	14140.5	14140.5	0.00%	5.19	0.11	5.30	1.86	34	6	7.16	NCLSHT
NBA0312_6-6	6	6	12	14710.7	14710.7	0.05%	3.66	0.08	3.74	2.67	34	6	6.41	NCLSHT
NBA0412_6-6	6	6	12	14749.6	14749.6	0.00%	4.86	0.23	5.09	3.77	40	7	8.86	NCLSHT
NBA0512_6-6	6	6	12	14517.8	14517.8	0.01%	2.27	0.10	2.38	3.33	46	8	5.71	NCLSHT
NBA0612_6-6	6	6	12	12568.0	12568.0	0.00%	3.62	0.06	3.68	3.41	46	8	7.09	NCLSHT
NBA0712_6-6	6	6	12	15109.5	15109.5	0.00%	4.17	0.11	4.28	3.31	57	10	7.59	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%	6.05	0.12	6.17	1.79	34	6	7.96	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%	4.35	0.10	4.45	2.60	40	7	7.06	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%	4.65	0.09	4.74	1.19	30	4	5.93	NCLSHT
NBA0118_6-6	6	6	18	21538.0	21538.0	0.05%	13.30	0.15	13.46	7.40	44	6	20.86	NCLSHT
NBA0218_6-6	6	6	18	19872.5	19872.5	0.01%	10.08	0.14	10.23	5.40	52	7	15.63	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%	9.95	0.10	10.07	5.26	52	7	15.33	NCLSHT
NBA0418_6-6	6	6	18	21955.9	21955.9	0.01%	11.82	0.18	12.00	4.42	38	5	16.43	NCLSHT
NBA0518_6-6	6	6	18	22134.6	22134.6	0.02%	8.26	0.18	8.44	6.94	38	5	15.38	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%	9.02	0.09	9.11	3.57	30	4	12.69	NCLSHT
NBA0718_6-6	6	6	18	21771.7	21771.7	0.05%	11.15	0.17	11.33	4.15	44	6	15.48	NCLSHT
NBA0818_6-6	6	6	18	19912.5	19912.5	0.02%	16.60	0.15	16.76	4.62	38	5	21.38	NCLSHT
NBA0918_6-6	6	6	18	21294.7	21294.7	0.00%	12.25	0.14	12.39	10.43	74	10	22.82	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%	1.00	0.04	1.04	0.99	15	3	2.03	NCLSHT
NBA016_6-12	12	6	6	13041.8	13041.8	0.06%	1.27	0.08	1.36	1.73	20	4	3.09	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%	0.79	0.06	0.85	0.50	20	4	1.35	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%	0.76	0.04	0.80	0.39	15	3	1.20	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%	0.80	0.05	0.85	0.52	15	3	1.37	NCLSHT
NBA056_6-12	12	6	6	12333.4	12333.4	0.00%	0.64	0.03	0.68	0.39	10	2	1.07	NCLSHT
NBA066_6-12	12	6	6	11650.8	11650.8	0.08%	1.33	0.04	1.37	1.05	15	3	2.43	NCLSHT
NBA076_6-12	12	6	6	13479.1	13479.1	0.00%	1.44	0.04	1.48	1.72	15	3	3.20	NCLSHT
NBA086_6-12	12	6	6	13401.0	13401.0	0.20%	1.45	0.04	1.49	1.49	15	3	2.98	NCLSHT
NBA096_6-12	12	6	6	14330.9	14330.9	0.21%	1.20	0.05	1.25	1.50	20	4	2.75	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%	2.95	0.06	3.01	2.89	34	6	5.90	NCLSHT
NBA0112_6-12	12	6	12	25521.9	25521.9	0.00%	4.68	0.06	4.74	4.63	40	7	9.38	NCLSHT
NBA0212_6-12	12	6	12	24025.6	24025.6	0.00%	3.42	0.08	3.50	4.42	34	6	7.93	NCLSHT
NBA0312_6-12	12	6	12	26446.1	26446.1	0.00%	2.53	0.11	2.64	4.01	40	7	6.65	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%	1.57	0.06	1.63	3.31	51	9	4.93	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%	3.43	0.08	3.52	4.60	51	9	8.12	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%	4.56	0.07	4.63	5.39	35	6	10.02	NCLSHT
NBA0712_6-12	12	6	12	27891.4	27891.4	0.06%	4.75	0.08	4.83	14.84	29	5	19.67	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%	7.05	0.10	7.15	8.95	40	7	16.10	NCLSHT
NBA0912_6-12	12	6	12	27276.2	27276.2	0.00%	5.62	0.11	5.73	13.84	29	5	19.57	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%	8.04	0.12	8.17	4.36	30	4	12.53	NCLSHT
NBA0118_6-12	12	6	18	40976.3	40976.3	0.01%	9.92	0.19	10.11	15.75	52	7	25.86	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%	6.77	0.12	6.90	5.39	30	4	12.30	NCLSHT
NBA0318_6-12	12	6	18	38324.3	38324.3	0.03%	5.81	0.13	5.95	6.02	38	5	11.97	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%	4.77	0.10	4.88	5.30	30	4	10.18	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%	6.38	0.33	6.72	6.84	38	5	13.56	NCLSHT
NBA0618_6-12	12	6	18	37147.6	37147.6	0.02%	11.15	0.11	11.26	17.84	52	7	29.11	NCLSHT
NBA0718_6-12	12	6	18	41299.5	41299.5	0.06%	13.37	0.15	13.52	22.87	52	7	36.40	NCLSHT
NBA0818_6-12	12	6	18	39070.7	39070.7	0.15%	13.92	0.14	14.07	52.69	38	5	66.77	NCLSHT
NBA0918_6-12	12	6	18	41037.3	41037.3	0.02%	8.88	0.15	9.03	9.37	30	4	18.40	NCLSHT
NBA006_6-25	25	6	6	25556.3	25556.3	0.00%	2.40	0.08	2.48	3.63	15	3	6.11	NCLSHT
NBA016_6-25	25	6	6	25302.8	25302.8	0.01%	1.66	0.07	1.73	1.59	15	3	3.32	NCLSHT
NBA026_6-25	25	6	6	26751.4	26751.4	0.13%	1.20	0.08	1.29	1.55	20	4	2.84	NCLSHT
NBA036_6-25	25	6	6	26597.5	26597.5	0.12%	2.26	0.09	2.35	4.73	15	3	7.08	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%	2.54	0.10	2.65	5.59	15	3	8.24	NCLSHT
NBA056_6-25	25	6	6	26227.3	26227.3	0.02%	1.74	0.10	1.84	2.24	15	3	4.08	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%	1.02	0.08	1.10	0.92	15	3	2.02	NCLSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%	1.91	0.06	1.97	1.38	15	3	3.35	NCLSHT
NBA086_6-25	25	6	6	26561.9	26561.9	0.00%	1.43	0.05	1.48	1.28	15	3	2.77	NCLSHT
NBA096_6-25	25	6	6	26263.0	26263.0	0.02%	1.90	0.05	1.96	1.81	20	4	3.77	NCLSHT
NBA0012_6-25	25	6	12	52242.9	52242.9	0.00%	5.23	0.14	5.38	22.08	46	8	27.46	NCLSHT
NBA0112_6-25	25	6	12	52474.2	52474.2	0.01%	7.67	0.11	7.78	42.52	35	6	50.31	NCLSHT
NBA0212_6-25	25	6	12	53897.0	53897.0	0.03%	5.85	0.14	6.00	13.74	40	7	19.74	NCLSHT
NBA0312_6-25	25	6	12	52203.1	52203.1	0.06%	7.45	0.17	7.62	36.13	46	8	43.75	NCLSHT
NBA0412_6-25	25	6	12	55764.7	55764.7	0.09%	7.95	0.15	8.10	62.87	46	8	70.98	NCLSHT
NBA0512_6-25	25	6	12	51641.5	51641.5	0.00%	6.88	0.37	7.26	20.65	40	7	27.91	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%	2.94	0.10	3.05	4.01	40	7	7.06	NCLSHT
NBA0712_6-25	25	6	12	52538.4	52538.4	0.03%	7.34	0.12	7.46	19.66	57	10	27.14	NCLSHT
NBA0812_6-25	25	6	12	51075.3	51075.3	0.00%	4.33	0.17	4.51	9.86	40	7	14.38	NCLSHT
NBA0912_6-25	25	6	12	53465.6	53465.6	0.01%	4.24	0.17	4.41	16.17	40	7	20.59	NCLSHT
NBA0018_6-25	25	6	18	76069.0	76069.0	0.03%	12.39	0.35	12.75	56.00	30	4	68.75	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%	13.61	0.24	13.85	44.24	52	7	58.09	NCLSHT
NBA0218_6-25	25	6	18	81551.4	81551.4	0.08%	16.31	0.22	16.53	14.97	22	3	31.51	NCLSHT
NBA0318_6-25	25	6	18	79343.7	79343.7	0.05%	19.99	0.26	20.26	44.28	30	4	64.54	NCLSHT
NBA0418_6-25	25	6	18	84588.5	84588.5	0.08%	15.81	0.24	16.06	76.16	22	3	92.22	NCLSHT
NBA0518_6-25	25	6	18	80778.5	80778.5	0.00%	13.77	0.30	14.08	17.17	30	4	31.26	NCLSHT
NBA0618_6-25	25	6	18	76162.0	76162.0	0.00%	5.14	0.21	5.36	10.13	46	6	15.50	NCLSHT
NBA0718_6-25	25	6	18	77482.3	77482.3	0.00%	10.15	0.23	10.39	18.64	22	3	29.03	NCLSHT
NBA0818_6-25	25	6	18	74936.0	74936.0	0.00%	10.06	0.21	10.27	29.01	44	6	39.29	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%	8.72	0.21	8.93	15.79	30	4	24.73	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%	2.11	0.12	2.23	1.54	15	3	3.78	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%	2.55	0.08	2.64	3.97	20	4	6.61	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%	2.80	0.09	2.89	4.44	25	5	7.34	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%	1.83	0.06	1.90	1.34	15	3	3.24	NCLSHT
NBA046_6-50	50	6	6	53895.5	53895.5	0.03%	3.33	0.15	3.49	5.87	20	4	9.36	NCLSHT
NBA056_6-50	50	6	6	52670.6	52670.6	0.03%	2.70	0.10	2.80	5.14	15	3	7.93	NCLSHT
NBA066_6-50	50	6	6	51786.4	51786.4	0.00%	2.92	0.11	3.03	9.04	15	3	12.07	NCLSHT
NBA076_6-50	50	6	6	53972.6	53972.6	0.05%	2.47	0.09	2.56	3.22	15	3	5.83	NCLSHT
NBA086_6-50	50	6	6	50766.1	50766.1	0.00%	2.18	0.10	2.28	1.42	15	3	3.70	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%	2.04	0.06	2.10	1.61	15	3	3.71	NCLSHT
NBA0012_6-50	50	6	12	102385.2	102385.2	0.00%	5.10	0.16	5.26	7.21	23	4	12.47	NCLSHT
NBA0112_6-50	50	6	12	101403.3	101403.3	0.00%	7.10	0.18	7.28	10.87	23	4	18.16	NCLSHT
NBA0212_6-50	50	6	12	104860.5	104860.5	0.00%	6.95	0.25	7.21	21.37	29	5	28.58	NCLSHT
NBA0312_6-50	50	6	12	102384.7	102384.7	0.00%	7.59	0.21	7.81	20.44	52	9	28.25	NCLSHT
NBA0412_6-50	50	6	12	109569.1	109569.1	0.00%	7.26	0.30	7.57	18.02	17	3	25.59	NCLSHT
NBA0512_6-50	50	6	12	105149.9	105149.9	0.01%	7.40	0.33	7.74	75.58	51	9	83.33	NCLSHT
NBA0612_6-50	50	6	12	101764.2	101764.2	0.00%	9.79	0.29	10.09	42.57	63	11	52.66	NCLSHT
NBA0712_6-50	50	6	12	107440.9	107440.9	0.01%	5.12	0.17	5.30	10.03	28	5	15.33	NCLSHT
NBA0812_6-50	50	6	12	99742.5	99742.5	0.00%	6.82	0.29	7.12	10.42	40	7	17.54	NCLSHT
NBA0912_6-50	50	6	12	102196.8	102196.8	0.00%	8.16	0.34	8.51	19.84	46	8	28.36	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%	13.18	0.52	13.72	26.20	38	5	39.92	NCLSHT
NBA0118_6-50	50	6	18	150738.5	150738.5	0.00%	16.42	0.43	16.86	46.55	30	4	63.42	NCLSHT
NBA0218_6-50	50	6	18	154212.4	154212.4	0.01%	22.04	0.30	22.35	99.67	68	9	122.03	NCLSHT
NBA0318_6-50	50	6	18	154026.0	154026.0	0.00%	15.36	0.40	15.77	35.39	44	6	51.17	NCLSHT
NBA0418_6-50	50	6	18	164546.2	164546.2	0.00%	14.36	0.40	14.77	43.25	30	4	58.03	NCLSHT
NBA0518_6-50	50	6	18	155185.7	155185.7	0.03%	13.48	0.55	14.04	96.12	46	6	110.17	NCLSHT
NBA0618_6-50	50	6	18	153877.6	153877.6	0.04%	16.58	0.55	17.14	73.27	38	5	90.42	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%	13.02	0.55	13.58	27.97	22	3	41.56	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%	9.15	0.50	9.67	40.81	38	5	50.48	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%	10.85	0.28	11.13	47.19	82	11	58.33	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%	0.31	0.02	0.33	0.40	20	4	0.73	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%	0.20	0.01	0.21	0.06	10	2	0.27	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%	0.26	0.02	0.28	0.17	15	3	0.45	NCLSLT
NBB036_2-6	6	2	6	7766.3	7766.3	0.67%	0.26	0.02	0.28	0.16	10	2	0.43	NCLSLT
NBB046_2-6	6	2	6	7798.0	7798.0	0.00%	0.31	0.02	0.33	0.20	10	2	0.54	NCLSLT
NBB056_2-6	6	2	6	9352.7	9352.7	0.00%	0.21	0.01	0.23	0.09	10	2	0.32	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%	0.23	0.02	0.25	0.18	15	3	0.43	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%	0.32	0.02	0.35	0.38	20	4	0.73	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%	0.27	0.02	0.28	0.18	15	3	0.47	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%	0.16	0.02	0.18	0.07	10	2	0.26	NCLSLT
NBB0012_2-6	6	2	12	15489.2	15489.2	0.00%	1.08	0.03	1.11	1.14	29	5	2.25	NCLSLT
NBB0112_2-6	6	2	12	13322.4	13322.4	0.00%	1.06	0.02	1.08	0.62	28	5	1.70	NCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0212_2-6	6	2	12	14588.9	14588.9	0.00%	1.01	0.02	1.04	1.28	45	8	2.32	NCLSLT
NBB0312_2-6	6	2	12	14730.6	14730.6	0.00%	1.11	0.03	1.14	2.20	62	11	3.34	NCLSLT
NBB0412_2-6	6	2	12	13659.2	13659.2	0.45%	1.57	0.03	1.60	1.70	23	4	3.30	NCLSLT
NBB0512_2-6	6	2	12	17339.3	17339.3	0.00%	0.58	0.04	0.63	0.74	29	5	1.37	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%	0.60	0.03	0.62	0.71	23	4	1.33	NCLSLT
NBB0712_2-6	6	2	12	16591.7	16591.7	0.00%	0.99	0.02	1.01	1.31	34	6	2.32	NCLSLT
NBB0812_2-6	6	2	12	14140.1	14140.1	0.00%	0.99	0.02	1.02	1.39	40	7	2.41	NCLSLT
NBB0912_2-6	6	2	12	16075.5	16075.5	0.00%	0.51	0.03	0.53	0.90	40	7	1.44	NCLSLT
NBB0018_2-6	6	2	18	21645.0	21645.0	0.02%	2.91	0.05	2.96	4.62	38	5	7.58	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%	1.44	0.04	1.48	0.70	22	3	2.19	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%	2.62	0.03	2.65	2.85	52	7	5.51	NCLSLT
NBB0418_2-6	6	2	18	20068.1	20068.1	0.26%	3.69	0.03	3.73	3.93	44	6	7.65	NCLSLT
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%	1.49	0.04	1.53	0.76	22	3	2.29	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%	2.28	0.04	2.31	2.61	60	8	4.93	NCLSLT
NBB0718_2-6	6	2	18	24299.8	24299.8	0.00%	3.13	0.05	3.18	3.93	44	6	7.11	NCLSLT
NBB0818_2-6	6	2	18	20809.2	20809.2	0.00%	1.83	0.05	1.88	3.39	58	8	5.28	NCLSLT
NBB0918_2-6	6	2	18	22437.3	22437.3	0.00%	1.47	0.03	1.50	1.53	44	6	3.04	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%	0.27	0.02	0.29	0.11	10	2	0.40	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%	0.39	0.02	0.41	0.23	10	2	0.64	NCLSLT
NBB026_2-12	12	2	6	14054.9	14054.9	0.00%	0.48	0.02	0.50	0.42	15	3	0.93	NCLSLT
NBB036_2-12	12	2	6	16317.3	16317.3	0.00%	0.31	0.02	0.32	0.38	20	4	0.71	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%	0.42	0.02	0.44	0.27	15	3	0.72	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%	0.26	0.03	0.29	0.45	20	4	0.73	NCLSLT
NBB066_2-12	12	2	6	13748.0	13748.0	0.00%	0.32	0.02	0.34	0.24	15	3	0.58	NCLSLT
NBB076_2-12	12	2	6	15404.0	15404.0	0.05%	0.33	0.01	0.34	0.16	10	2	0.50	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%	0.36	0.02	0.38	0.10	10	2	0.48	NCLSLT
NBB096_2-12	12	2	6	15838.1	15838.1	0.00%	0.60	0.02	0.63	0.21	10	2	0.84	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%	0.82	0.03	0.84	0.95	28	5	1.80	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%	0.98	0.03	1.01	0.76	28	5	1.77	NCLSLT
NBB0212_2-12	12	2	12	27054.5	27054.5	0.01%	1.57	0.05	1.62	3.50	46	8	5.12	NCLSLT
NBB0312_2-12	12	2	12	31677.0	31677.0	0.00%	1.15	0.03	1.18	1.41	34	6	2.59	NCLSLT
NBB0412_2-12	12	2	12	28227.9	28227.9	0.01%	1.08	0.03	1.12	2.88	46	8	3.99	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%	1.09	0.04	1.13	0.95	23	4	2.08	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%	0.82	0.03	0.85	0.55	17	3	1.40	NCLSLT
NBB0712_2-12	12	2	12	30244.4	30244.4	0.00%	1.19	0.03	1.23	1.18	29	5	2.41	NCLSLT
NBB0812_2-12	12	2	12	26667.8	26667.8	0.16%	1.56	0.04	1.60	1.59	23	4	3.19	NCLSLT
NBB0912_2-12	12	2	12	30941.3	30941.3	0.13%	1.94	0.04	1.99	15.26	57	10	17.26	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%	1.72	0.05	1.77	2.40	44	6	4.17	NCLSLT
NBB0118_2-12	12	2	18	40340.6	40340.6	0.00%	2.40	0.06	2.46	4.67	44	6	7.12	NCLSLT
NBB0218_2-12	12	2	18	41462.5	41462.5	0.09%	5.21	0.04	5.25	9.35	44	6	14.61	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%	3.04	0.04	3.08	5.71	44	6	8.79	NCLSLT
NBB0418_2-12	12	2	18	44129.9	44129.9	0.05%	2.47	0.08	2.56	4.48	30	4	7.04	NCLSLT
NBB0518_2-12	12	2	18	47247.8	47247.8	0.02%	2.35	0.05	2.41	3.14	36	5	5.55	NCLSLT
NBB0618_2-12	12	2	18	40549.1	40549.1	0.02%	2.74	0.09	2.83	6.09	74	10	8.93	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%	2.22	0.06	2.27	2.67	44	6	4.95	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%	4.37	0.09	4.46	6.50	52	7	10.97	NCLSLT
NBB0918_2-12	12	2	18	47159.2	47159.2	0.22%	4.33	0.05	4.39	24.33	60	8	28.71	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%	0.56	0.02	0.58	0.30	10	2	0.88	NCLSLT
NBB016_2-25	25	2	6	29856.1	29856.1	0.05%	0.75	0.03	0.79	0.46	10	2	1.25	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%	0.82	0.02	0.84	0.59	15	3	1.43	NCLSLT
NBB036_2-25	25	2	6	30138.6	30138.6	0.05%	0.74	0.04	0.78	0.72	15	3	1.50	NCLSLT
NBB046_2-25	25	2	6	31330.3	31330.3	0.04%	0.79	0.02	0.81	0.88	20	4	1.69	NCLSLT
NBB056_2-25	25	2	6	31386.1	31386.1	0.10%	1.02	0.03	1.05	0.58	10	2	1.63	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%	0.39	0.02	0.41	0.17	10	2	0.58	NCLSLT
NBB076_2-25	25	2	6	31235.8	31235.8	0.02%	0.87	0.02	0.90	0.43	15	3	1.33	NCLSLT
NBB086_2-25	25	2	6	31973.8	31973.8	0.03%	0.79	0.03	0.82	0.73	15	3	1.55	NCLSLT
NBB096_2-25	25	2	6	32981.5	32981.5	0.01%	0.76	0.03	0.79	0.56	15	3	1.35	NCLSLT
NBB0012_2-25	25	2	12	58130.1	58130.1	0.01%	1.09	0.06	1.15	1.27	23	4	2.42	NCLSLT
NBB0112_2-25	25	2	12	60803.7	60803.7	0.00%	1.87	0.04	1.91	1.56	23	4	3.47	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%	3.11	0.05	3.16	2.76	34	6	5.92	NCLSLT
NBB0312_2-25	25	2	12	59092.4	59092.4	0.01%	2.29	0.04	2.33	2.38	17	3	4.71	NCLSLT
NBB0412_2-25	25	2	12	59541.4	59541.4	0.02%	2.19	0.07	2.26	5.03	46	8	7.29	NCLSLT
NBB0512_2-25	25	2	12	64766.0	64766.0	0.02%	2.72	0.04	2.76	3.31	28	5	6.07	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%	0.81	0.04	0.86	1.07	23	4	1.93	NCLSLT
NBB0712_2-25	25	2	12	62702.9	62702.9	0.03%	2.34	0.04	2.37	3.95	29	5	6.32	NCLSLT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0812_2-25	25	2	12	62612.6	62612.6	0.00%	2.93	0.06	2.99	6.74	34	6	9.73	NCLSLT
NBB0912_2-25	25	2	12	63811.5	63811.5	0.01%	1.78	0.06	1.84	2.30	34	6	4.13	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%	2.36	0.09	2.46	1.42	22	3	3.88	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%	3.31	0.08	3.39	4.14	44	6	7.53	NCLSLT
NBB0218_2-25	25	2	18	83117.6	83117.6	0.05%	4.90	0.07	4.97	16.14	66	9	21.11	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%	2.83	0.10	2.94	4.10	30	4	7.04	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.01%	6.54	0.09	6.63	7.21	30	4	13.84	NCLSLT
NBB0518_2-25	25	2	18	94852.3	94852.3	0.11%	7.19	0.19	7.39	44.97	46	6	52.37	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%	1.62	0.05	1.67	3.15	44	6	4.83	NCLSLT
NBB0718_2-25	25	2	18	92026.0	92026.0	0.01%	5.89	0.07	5.97	14.24	30	4	20.20	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.03%	6.69	0.11	6.81	12.47	38	5	19.28	NCLSLT
NBB0918_2-25	25	2	18	92932.0	92932.0	0.01%	4.76	0.10	4.86	7.29	30	4	12.14	NCLSLT
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%	1.21	0.03	1.25	0.56	15	3	1.81	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%	1.12	0.05	1.17	0.49	10	2	1.66	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%	1.34	0.07	1.41	0.89	15	3	2.30	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%	1.53	0.04	1.57	0.96	15	3	2.53	NCLSLT
NBB046_2-50	50	2	6	60649.4	60649.4	0.00%	2.07	0.04	2.12	1.33	10	2	3.45	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%	1.57	0.09	1.66	0.87	15	3	2.53	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%	1.22	0.05	1.27	0.87	15	3	2.14	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%	1.40	0.03	1.43	0.61	10	2	2.05	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%	1.69	0.06	1.75	1.47	15	3	3.22	NCLSLT
NBB096_2-50	50	2	6	60524.0	60524.0	0.00%	1.52	0.03	1.55	1.43	15	3	2.99	NCLSLT
NBB0012_2-50	50	2	12	117269.4	117269.4	0.00%	2.15	0.13	2.28	3.96	45	8	6.24	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%	2.34	0.12	2.47	3.17	34	6	5.64	NCLSLT
NBB0212_2-50	50	2	12	113899.4	113899.4	0.00%	4.01	0.08	4.10	6.38	34	6	10.48	NCLSLT
NBB0312_2-50	50	2	12	119784.4	119784.4	0.00%	3.40	0.11	3.52	9.22	57	10	12.74	NCLSLT
NBB0412_2-50	50	2	12	121909.7	121909.7	0.00%	5.05	0.10	5.14	9.74	40	7	14.88	NCLSLT
NBB0512_2-50	50	2	12	119160.2	119160.2	0.01%	2.73	0.06	2.79	3.65	28	5	6.45	NCLSLT
NBB0612_2-50	50	2	12	113553.7	113553.7	0.00%	2.13	0.07	2.21	3.23	34	6	5.43	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%	3.67	0.08	3.75	5.47	23	4	9.23	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%	4.22	0.09	4.31	7.95	46	8	12.26	NCLSLT
NBB0912_2-50	50	2	12	122300.9	122300.9	0.01%	3.97	0.08	4.05	3.12	17	3	7.17	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%	2.93	0.09	3.02	3.90	30	4	6.92	NCLSLT
NBB0118_2-50	50	2	18	178702.4	178702.4	0.00%	4.33	0.17	4.50	7.19	44	6	11.70	NCLSLT
NBB0218_2-50	50	2	18	169531.5	169531.5	0.00%	5.91	0.11	6.03	16.97	52	7	23.00	NCLSLT
NBB0318_2-50	50	2	18	180938.8	180938.8	0.00%	5.02	0.14	5.17	5.75	30	4	10.92	NCLSLT
NBB0418_2-50	50	2	18	181476.3	181476.3	0.03%	10.60	0.11	10.71	43.66	30	4	54.37	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%	4.91	0.20	5.11	7.15	30	4	12.26	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%	5.07	0.13	5.20	8.80	44	6	14.00	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%	4.97	0.22	5.19	9.73	36	5	14.93	NCLSLT
NBB0818_2-50	50	2	18	173339.5	173339.5	0.01%	10.00	0.11	10.11	13.94	30	4	24.06	NCLSLT
NBB0918_2-50	50	2	18	182739.8	182739.8	0.00%	8.71	0.16	8.87	13.32	44	6	22.20	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%	0.39	0.03	0.42	0.33	15	3	0.76	NCLSLT
NBB016_4-6	6	4	6	7288.0	7288.0	0.51%	0.68	0.05	0.74	0.69	15	3	1.43	NCLSLT
NBB026_4-6	6	4	6	7329.5	7329.5	0.00%	0.50	0.04	0.53	0.41	15	3	0.94	NCLSLT
NBB036_4-6	6	4	6	6706.5	6706.5	0.00%	0.64	0.03	0.68	0.22	10	2	0.90	NCLSLT
NBB046_4-6	6	4	6	5584.9	5584.9	0.29%	0.44	0.03	0.47	0.30	20	4	0.77	NCLSLT
NBB056_4-6	6	4	6	7899.0	7899.0	0.00%	0.87	0.04	0.91	1.57	20	4	2.48	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%	0.70	0.03	0.73	0.38	15	3	1.11	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%	0.46	0.02	0.48	0.21	15	3	0.69	NCLSLT
NBB086_4-6	6	4	6	5873.3	5873.3	0.17%	0.70	0.02	0.73	0.35	15	3	1.08	NCLSLT
NBB096_4-6	6	4	6	8542.2	8542.2	0.25%	0.62	0.03	0.65	0.37	15	3	1.02	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%	1.77	0.06	1.84	0.97	29	5	2.81	NCLSLT
NBB0112_4-6	6	4	12	15228.5	15228.5	0.00%	2.97	0.06	3.04	6.20	51	9	9.24	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%	3.08	0.06	3.14	1.76	29	5	4.90	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%	2.41	0.05	2.47	1.11	29	5	3.58	NCLSLT
NBB0412_4-6	6	4	12	12883.9	12883.9	0.00%	2.55	0.07	2.63	6.50	46	8	9.12	NCLSLT
NBB0512_4-6	6	4	12	15807.8	15807.8	0.00%	2.97	0.07	3.04	6.61	40	7	9.65	NCLSLT
NBB0612_4-6	6	4	12	12773.8	12773.8	0.00%	2.88	0.03	2.91	1.18	34	6	4.09	NCLSLT
NBB0712_4-6	6	4	12	14712.6	14712.6	0.00%	2.30	0.04	2.34	1.63	34	6	3.97	NCLSLT
NBB0812_4-6	6	4	12	12363.6	12363.6	0.00%	2.88	0.06	2.93	1.92	29	5	4.85	NCLSLT
NBB0912_4-6	6	4	12	14839.4	14839.4	0.02%	3.20	0.03	3.24	1.73	40	7	4.98	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%	4.29	0.09	4.58	4.70	44	6	9.28	NCLSLT
NBB0118_4-6	6	4	18	21728.6	21728.6	0.06%	10.03	0.08	10.11	12.69	66	9	22.79	NCLSLT
NBB0218_4-6	6	4	18	21368.4	21368.4	-0.32%	6.48	0.07	6.56	4.08	36	5	10.64	NCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%	5.23	0.08	5.31	5.22	52	7	10.53	NCLSLT
NBB0418_4-6	6	4	18	19983.8	19983.8	0.07%	5.37	0.06	5.43	10.33	52	7	15.76	NCLSLT
NBB0518_4-6	6	4	18	23489.6	23489.6	0.03%	7.89	0.11	8.01	9.82	22	3	17.83	NCLSLT
NBB0618_4-6	6	4	18	19868.3	19868.3	0.00%	9.72	0.06	9.78	6.19	44	6	15.97	NCLSLT
NBB0718_4-6	6	4	18	22421.3	22421.3	0.02%	5.61	0.30	5.91	3.08	38	5	8.99	NCLSLT
NBB0818_4-6	6	4	18	18186.6	18186.6	0.00%	6.04	0.06	6.10	3.22	36	5	9.32	NCLSLT
NBB0918_4-6	6	4	18	22141.8	22141.8	0.00%	6.35	0.05	6.40	1.83	30	4	8.23	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%	0.93	0.04	0.97	0.99	15	3	1.96	NCLSLT
NBB016_4-12	12	4	6	15431.2	15431.2	0.03%	1.31	0.05	1.36	1.34	15	3	2.70	NCLSLT
NBB026_4-12	12	4	6	13171.4	13171.4	0.09%	0.60	0.02	0.62	0.53	15	3	1.16	NCLSLT
NBB036_4-12	12	4	6	12376.6	12376.6	0.14%	0.94	0.03	0.98	1.48	20	4	2.46	NCLSLT
NBB046_4-12	12	4	6	14366.3	14366.3	0.01%	0.72	0.02	0.75	1.01	20	4	1.76	NCLSLT
NBB056_4-12	12	4	6	14179.6	14179.6	0.08%	0.79	0.04	0.83	1.21	10	2	2.04	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%	0.73	0.02	0.75	0.21	10	2	0.96	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%	0.68	0.03	0.71	0.65	15	3	1.36	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%	0.85	0.04	0.90	0.52	15	3	1.42	NCLSLT
NBB096_4-12	12	4	6	13317.5	13317.5	0.27%	1.01	0.04	1.05	1.84	20	4	2.89	NCLSLT
NBB0012_4-12	12	4	12	24819.5	24819.5	0.04%	3.07	0.08	3.15	7.90	40	7	11.05	NCLSLT
NBB0112_4-12	12	4	12	28626.1	28626.1	0.11%	6.26	0.08	6.35	14.25	34	6	20.60	NCLSLT
NBB0212_4-12	12	4	12	26534.4	26534.4	0.00%	3.98	0.06	4.04	6.53	45	8	10.57	NCLSLT
NBB0312_4-12	12	4	12	25492.6	25492.6	0.03%	2.98	0.07	3.05	2.51	23	4	5.57	NCLSLT
NBB0412_4-12	12	4	12	27361.6	27361.6	0.00%	3.08	0.08	3.16	2.88	23	4	6.05	NCLSLT
NBB0512_4-12	12	4	12	27954.2	27954.2	0.00%	2.51	0.06	2.58	10.92	46	8	13.50	NCLSLT
NBB0612_4-12	12	4	12	24618.3	24618.3	0.00%	1.53	0.06	1.59	2.31	51	9	3.91	NCLSLT
NBB0712_4-12	12	4	12	26375.4	26375.4	0.07%	3.00	0.07	3.07	10.93	51	9	14.00	NCLSLT
NBB0812_4-12	12	4	12	28127.9	28127.9	0.00%	3.56	0.06	3.62	4.96	45	8	8.58	NCLSLT
NBB0912_4-12	12	4	12	28654.6	28654.6	0.16%	4.71	0.08	4.79	25.11	52	9	29.90	NCLSLT
NBB0018_4-12	12	4	18	38500.8	38500.8	0.22%	8.16	0.10	8.26	49.57	52	7	57.83	NCLSLT
NBB0118_4-12	12	4	18	42123.4	42123.4	0.33%	13.35	0.14	13.49	82.31	60	8	95.81	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%	8.23	0.09	8.33	14.02	52	7	22.34	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%	10.50	0.15	10.65	20.28	66	9	30.94	NCLSLT
NBB0418_4-12	12	4	18	40754.9	40754.9	0.00%	5.95	0.13	6.08	14.62	46	6	20.71	NCLSLT
NBB0518_4-12	12	4	18	41198.3	41198.3	0.08%	7.98	0.16	8.14	20.65	30	4	28.80	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%	5.77	0.10	5.88	4.77	36	5	10.65	NCLSLT
NBB0718_4-12	12	4	18	41247.5	41247.5	0.07%	7.62	0.37	7.98	15.30	38	5	23.28	NCLSLT
NBB0818_4-12	12	4	18	42922.6	42922.6	0.06%	7.48	0.14	7.62	17.42	74	10	25.05	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	0.21%	9.43	0.10	9.54	41.14	30	4	50.68	NCLSLT
NBB006_4-25	25	4	6	25614.3	25614.3	0.04%	1.27	0.03	1.31	1.83	20	4	3.14	NCLSLT
NBB016_4-25	25	4	6	29493.8	29493.8	0.01%	1.39	0.05	1.44	1.13	15	3	2.57	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%	1.35	0.06	1.41	2.67	20	4	4.08	NCLSLT
NBB036_4-25	25	4	6	26073.0	26073.0	0.06%	1.40	0.09	1.49	3.03	25	5	4.52	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%	0.82	0.03	0.85	0.58	15	3	1.44	NCLSLT
NBB056_4-25	25	4	6	30215.4	30215.4	0.15%	1.35	0.04	1.39	1.90	20	4	3.29	NCLSLT
NBB066_4-25	25	4	6	25385.4	25385.4	0.00%	1.07	0.04	1.10	0.48	10	2	1.59	NCLSLT
NBB076_4-25	25	4	6	27107.5	27107.5	0.06%	1.64	0.05	1.69	2.83	15	3	4.53	NCLSLT
NBB086_4-25	25	4	6	26268.5	26268.5	0.00%	0.93	0.04	0.97	0.97	15	3	1.94	NCLSLT
NBB096_4-25	25	4	6	27968.7	27968.7	0.04%	1.84	0.04	1.89	2.61	25	5	4.50	NCLSLT
NBB0012_4-25	25	4	12	53751.6	53751.6	0.03%	6.49	0.14	6.64	19.07	17	3	25.70	NCLSLT
NBB0112_4-25	25	4	12	56368.6	56368.6	0.02%	4.14	0.10	4.24	6.73	23	4	10.98	NCLSLT
NBB0212_4-25	25	4	12	53343.0	53343.0	0.06%	4.39	0.11	4.50	28.31	23	4	32.81	NCLSLT
NBB0312_4-25	25	4	12	54132.2	54132.2	0.00%	5.46	0.20	5.67	9.84	23	4	15.51	NCLSLT
NBB0412_4-25	25	4	12	54980.1	54980.1	0.00%	3.38	0.11	3.50	13.51	74	13	17.01	NCLSLT
NBB0512_4-25	25	4	12	57155.7	57155.7	0.06%	4.09	0.09	4.18	9.79	40	7	13.98	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%	2.53	0.08	2.61	4.12	29	5	6.73	NCLSLT
NBB0712_4-25	25	4	12	55613.4	55613.4	0.06%	6.48	0.09	6.57	43.40	34	6	49.97	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%	4.26	0.08	4.35	5.74	23	4	10.09	NCLSLT
NBB0912_4-25	25	4	12	54968.2	54968.2	0.09%	5.91	0.26	6.18	124.11	110	19	130.29	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.04%	10.77	0.13	10.91	27.05	38	5	37.96	NCLSLT
NBB0118_4-25	25	4	18	83918.6	83918.6	0.00%	9.91	0.12	10.04	15.74	38	5	25.78	NCLSLT
NBB0218_4-25	25	4	18	81001.7	81001.7	0.07%	9.28	0.16	9.44	57.20	30	4	66.65	NCLSLT
NBB0318_4-25	25	4	18	80530.8	80530.8	0.05%	11.09	0.16	11.25	36.16	52	7	47.42	NCLSLT
NBB0418_4-25	25	4	18	83347.5	83347.5	0.00%	4.32	0.10	4.42	7.82	44	6	12.24	NCLSLT
NBB0518_4-25	25	4	18	84483.3	84483.3	0.10%	13.00	0.21	13.21	51.86	52	7	65.06	NCLSLT
NBB0618_4-25	25	4	18	77417.4	77417.4	0.00%	5.38	0.10	5.48	6.40	30	4	11.89	NCLSLT
NBB0718_4-25	25	4	18	82807.5	82807.5	0.16%	16.04	0.16	16.21	74.00	22	3	90.21	NCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0818_4-25	25	4	18	78524.1	78524.1	0.00%	9.83	0.12	9.96	17.72	52	7	27.68	NCLSLT
NBB0918_4-25	25	4	18	82454.2	82454.2	0.08%	10.40	0.14	10.54	41.34	30	4	51.88	NCLSLT
NBB006_4-50	50	4	6	54640.8	54640.8	0.00%	2.10	0.09	2.19	2.42	25	5	4.62	NCLSLT
NBB016_4-50	50	4	6	55414.5	55414.5	0.00%	2.03	0.07	2.10	1.85	20	4	3.95	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%	2.21	0.06	2.27	2.82	20	4	5.08	NCLSLT
NBB036_4-50	50	4	6	55274.6	55274.6	0.01%	2.80	0.14	2.94	8.19	20	4	11.13	NCLSLT
NBB046_4-50	50	4	6	56930.2	56930.2	0.02%	2.82	0.07	2.89	6.19	25	5	9.08	NCLSLT
NBB056_4-50	50	4	6	57376.1	57376.1	0.01%	1.41	0.06	1.47	1.73	15	3	3.21	NCLSLT
NBB066_4-50	50	4	6	52877.4	52877.4	0.01%	1.72	0.11	1.83	3.56	15	3	5.39	NCLSLT
NBB076_4-50	50	4	6	51689.4	51689.4	0.03%	2.68	0.08	2.76	3.69	20	4	6.45	NCLSLT
NBB086_4-50	50	4	6	52922.9	52922.9	0.00%	1.85	0.08	1.94	3.54	15	3	5.48	NCLSLT
NBB096_4-50	50	4	6	60182.5	60182.5	0.03%	1.78	0.09	1.87	2.13	15	3	4.00	NCLSLT
NBB0012_4-50	50	4	12	110453.6	110453.6	0.01%	6.46	0.18	6.64	25.91	23	4	32.55	NCLSLT
NBB0112_4-50	50	4	12	108479.2	108479.2	0.00%	5.71	0.12	5.83	10.81	34	6	16.65	NCLSLT
NBB0212_4-50	50	4	12	108020.3	108020.3	0.00%	7.02	0.13	7.16	24.11	63	11	31.27	NCLSLT
NBB0312_4-50	50	4	12	110203.2	110203.2	0.03%	9.36	0.17	9.54	26.78	40	7	36.32	NCLSLT
NBB0412_4-50	50	4	12	109732.5	109732.5	0.05%	7.76	0.26	8.02	64.62	34	6	72.65	NCLSLT
NBB0512_4-50	50	4	12	112014.1	112014.1	0.00%	3.93	0.10	4.04	6.58	34	6	10.62	NCLSLT
NBB0612_4-50	50	4	12	104017.8	104017.8	0.00%	3.53	0.10	3.64	2.91	17	3	6.56	NCLSLT
NBB0712_4-50	50	4	12	106646.9	106646.9	0.04%	8.55	0.17	8.72	36.00	29	5	44.72	NCLSLT
NBB0812_4-50	50	4	12	106520.5	106520.5	0.00%	3.58	0.11	3.70	5.51	29	5	9.21	NCLSLT
NBB0912_4-50	50	4	12	114387.6	114387.6	0.01%	7.29	0.15	7.44	30.18	40	7	37.62	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.01%	12.90	0.28	13.19	33.22	44	6	46.41	NCLSLT
NBB0118_4-50	50	4	18	161829.1	161829.1	0.01%	11.89	0.23	12.13	23.40	38	5	35.54	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.01%	10.77	0.33	11.11	27.62	22	3	38.73	NCLSLT
NBB0318_4-50	50	4	18	163424.1	163424.1	0.06%	23.62	0.46	24.09	142.69	44	6	166.78	NCLSLT
NBB0418_4-50	50	4	18	166612.6	166612.6	0.06%	18.83	0.26	19.10	177.21	68	9	196.31	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.01%	8.90	0.18	9.09	18.95	38	5	28.04	NCLSLT
NBB0618_4-50	50	4	18	156361.5	156361.5	0.00%	7.43	0.23	7.87	11.71	22	3	19.58	NCLSLT
NBB0718_4-50	50	4	18	161802.5	161802.5	0.06%	26.20	0.24	26.45	90.26	38	5	116.71	NCLSLT
NBB0818_4-50	50	4	18	157367.1	157367.1	0.00%	7.95	0.19	8.15	17.48	52	7	25.64	NCLSLT
NBB0918_4-50	50	4	18	168535.8	168535.8	0.00%	9.90	0.31	10.21	32.11	52	7	42.32	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%	0.70	0.05	0.76	0.23	15	3	0.99	NCLSLT
NBB016_6-6	6	6	6	7380.7	7380.7	0.28%	1.42	0.07	1.49	1.59	15	3	3.08	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%	0.74	0.05	0.79	0.33	15	3	1.12	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%	0.91	0.06	0.97	0.54	15	3	1.51	NCLSLT
NBB046_6-6	6	6	6	8184.6	8184.6	0.19%	1.21	0.08	1.30	0.68	15	3	1.98	NCLSLT
NBB056_6-6	6	6	6	8067.6	8067.6	0.00%	1.03	0.05	1.08	0.68	15	3	1.76	NCLSLT
NBB066_6-6	6	6	6	6775.2	6775.2	0.01%	0.70	0.04	0.74	0.41	15	3	1.15	NCLSLT
NBB076_6-6	6	6	6	7843.3	7843.3	0.21%	1.59	0.05	1.64	0.58	15	3	2.22	NCLSLT
NBB086_6-6	6	6	6	6726.0	6726.0	0.00%	1.24	0.06	1.30	0.40	15	3	1.70	NCLSLT
NBB096_6-6	6	6	6	7615.0	7615.0	0.18%	1.28	0.03	1.32	2.01	25	5	3.32	NCLSLT
NBB0012_6-6	6	6	12	12202.8	12202.8	0.00%	2.01	0.06	2.08	1.84	57	10	3.92	NCLSLT
NBB0112_6-6	6	6	12	14411.5	14411.5	0.07%	4.69	0.18	4.87	3.59	34	6	8.46	NCLSLT
NBB0212_6-6	6	6	12	14365.7	14365.7	0.00%	6.70	0.13	6.83	2.99	45	8	9.82	NCLSLT
NBB0312_6-6	6	6	12	14878.4	14878.4	0.00%	4.55	0.05	4.60	2.52	34	6	7.12	NCLSLT
NBB0412_6-6	6	6	12	15150.6	15150.6	0.09%	6.66	0.14	6.80	6.41	51	9	13.21	NCLSLT
NBB0512_6-6	6	6	12	14847.2	14847.2	0.07%	3.19	0.12	3.31	4.66	40	7	7.97	NCLSLT
NBB0612_6-6	6	6	12	12876.5	12876.5	0.00%	4.15	0.08	4.23	2.71	23	4	6.94	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%	5.52	0.10	5.62	2.72	46	8	8.34	NCLSLT
NBB0812_6-6	6	6	12	12710.6	12710.6	0.09%	6.08	0.11	6.19	4.51	63	11	10.70	NCLSLT
NBB0912_6-6	6	6	12	14398.2	14398.2	0.00%	6.25	0.13	6.38	11.59	57	10	17.97	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%	7.10	0.11	7.22	1.35	30	4	8.57	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%	14.05	0.24	14.29	5.15	46	6	19.44	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%	10.89	0.19	11.08	3.47	30	4	14.55	NCLSLT
NBB0418_6-6	6	6	18	22524.3	22524.3	0.00%	17.22	0.13	17.35	9.10	52	7	26.45	NCLSLT
NBB0518_6-6	6	6	18	22519.5	22519.5	0.04%	9.04	0.13	9.17	5.66	44	6	14.83	NCLSLT
NBB0618_6-6	6	6	18	20306.9	20306.9	0.00%	12.36	0.09	12.45	12.97	52	7	25.42	NCLSLT
NBB0718_6-6	6	6	18	22131.6	22131.6	0.04%	13.29	0.15	13.45	4.80	38	5	18.24	NCLSLT
NBB0818_6-6	6	6	18	20338.4	20338.4	0.02%	19.90	0.21	20.11	7.08	54	7	27.19	NCLSLT
NBB0918_6-6	6	6	18	21829.3	21829.3	0.05%	17.60	0.18	17.78	20.30	38	5	38.09	NCLSLT
NBB006_6-12	12	6	6	12837.0	12837.0	0.06%	1.42	0.05	1.47	1.22	20	4	2.69	NCLSLT
NBB016_6-12	12	6	6	13163.8	13163.8	0.00%	1.50	0.09	1.59	2.30	20	4	3.89	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%	1.04	0.09	1.13	0.60	10	2	1.73	NCLSLT
NBB036_6-12	12	6	6	13017.9	13017.9	0.00%	0.88	0.04	0.93	0.45	15	3	1.38	NCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%	1.10	0.04	1.14	0.86	20	4	2.00	NCLSLT
NBB056_6-12	12	6	6	12410.7	12410.7	0.00%	0.88	0.05	0.93	0.71	15	3	1.64	NCLSLT
NBB066_6-12	12	6	6	11748.5	11748.5	0.18%	1.47	0.03	1.50	0.68	10	2	2.18	NCLSLT
NBB076_6-12	12	6	6	13690.4	13690.4	0.33%	2.00	0.06	2.06	4.06	15	3	6.11	NCLSLT
NBB086_6-12	12	6	6	13569.0	13569.0	0.30%	2.12	0.04	2.16	1.80	15	3	3.96	NCLSLT
NBB096_6-12	12	6	6	14440.3	14440.3	0.09%	1.84	0.06	1.90	1.70	15	3	3.61	NCLSLT
NBB0012_6-12	12	6	12	24289.2	24289.2	0.00%	4.10	0.11	4.21	6.95	46	8	11.16	NCLSLT
NBB0112_6-12	12	6	12	25782.9	25782.9	0.00%	4.44	0.15	4.59	10.75	57	10	15.34	NCLSLT
NBB0212_6-12	12	6	12	24290.4	24290.4	0.01%	5.81	0.16	5.98	32.03	51	9	38.01	NCLSLT
NBB0312_6-12	12	6	12	26662.3	26662.3	0.00%	3.79	0.14	3.92	7.42	46	8	11.35	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%	2.84	0.12	2.97	4.04	29	5	7.01	NCLSLT
NBB0512_6-12	12	6	12	26407.6	26407.6	0.00%	5.11	0.15	5.27	7.31	23	4	12.58	NCLSLT
NBB0612_6-12	12	6	12	23725.2	23725.2	0.01%	5.70	0.09	5.79	10.44	46	8	16.24	NCLSLT
NBB0712_6-12	12	6	12	28196.7	28196.7	0.06%	6.19	0.13	6.33	26.34	23	4	32.67	NCLSLT
NBB0812_6-12	12	6	12	26077.7	26077.7	0.16%	7.86	0.17	8.03	21.64	40	7	29.67	NCLSLT
NBB0912_6-12	12	6	12	27505.0	27505.0	0.00%	5.22	0.17	5.40	13.86	29	5	19.26	NCLSLT
NBB0018_6-12	12	6	18	36608.8	36608.8	0.00%	11.47	0.12	11.59	17.71	52	7	29.31	NCLSLT
NBB0118_6-12	12	6	18	41385.7	41385.7	0.07%	13.12	0.13	13.26	41.09	68	9	54.35	NCLSLT
NBB0218_6-12	12	6	18	37074.7	37074.7	0.05%	10.66	0.19	10.85	44.64	44	6	55.50	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%	8.24	0.15	8.40	8.56	38	5	16.96	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%	6.58	0.15	6.73	11.96	52	7	18.70	NCLSLT
NBB0518_6-12	12	6	18	40708.1	40708.1	0.03%	9.92	0.15	10.07	15.46	38	5	25.53	NCLSLT
NBB0618_6-12	12	6	18	37617.9	37617.9	0.25%	15.79	0.17	15.96	35.74	52	7	51.71	NCLSLT
NBB0718_6-12	12	6	18	41753.1	41753.1	0.20%	16.38	0.16	16.54	65.54	38	5	82.07	NCLSLT
NBB0818_6-12	12	6	18	39702.7	39702.7	0.30%	20.15	0.20	20.35	106.81	46	6	127.17	NCLSLT
NBB0918_6-12	12	6	18	41494.0	41494.0	0.13%	21.46	0.14	21.60	70.67	44	6	92.27	NCLSLT
NBB006_6-25	25	6	6	25740.0	25740.0	0.05%	2.61	0.12	2.73	20.71	15	3	23.44	NCLSLT
NBB016_6-25	25	6	6	25439.8	25439.8	0.00%	2.31	0.08	2.40	9.63	15	3	12.03	NCLSLT
NBB026_6-25	25	6	6	26847.0	26847.0	0.08%	1.56	0.07	1.63	2.41	25	5	4.04	NCLSLT
NBB036_6-25	25	6	6	26883.9	26883.9	0.06%	2.68	0.15	2.84	17.46	20	4	20.30	NCLSLT
NBB046_6-25	25	6	6	28607.4	28607.4	0.18%	3.67	0.10	3.77	31.23	20	4	35.00	NCLSLT
NBB056_6-25	25	6	6	26354.0	26354.0	0.03%	2.72	0.05	2.78	10.45	20	4	13.23	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%	1.40	0.06	1.46	2.79	15	3	4.25	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%	2.75	0.06	2.82	4.45	20	4	7.27	NCLSLT
NBB086_6-25	25	6	6	26727.2	26727.2	0.04%	2.16	0.05	2.22	18.90	20	4	21.12	NCLSLT
NBB096_6-25	25	6	6	26421.3	26421.3	0.02%	2.56	0.08	2.64	2.83	15	3	5.47	NCLSLT
NBB0012_6-25	25	6	12	52547.0	52547.0	0.13%	9.13	0.21	9.35	83.41	34	6	92.76	NCLSLT
NBB0112_6-25	25	6	12	52730.5	52730.5	0.17%	9.63	0.16	9.79	105.97	40	7	115.77	NCLSLT
NBB0212_6-25	25	6	12	54119.3	54119.3	0.14%	6.46	0.16	6.63	48.54	57	10	55.17	NCLSLT
NBB0312_6-25	25	6	12	52566.7	52566.7	0.20%	10.04	0.22	10.26	162.87	51	9	173.13	NCLSLT
NBB0412_6-25	25	6	12	56130.2	56130.2	0.19%	10.14	0.16	10.30	112.31	29	5	122.62	NCLSLT
NBB0512_6-25	25	6	12	51909.0	51909.0	0.12%	10.38	0.28	10.66	69.69	40	7	80.36	NCLSLT
NBB0612_6-25	25	6	12	51037.6	51037.6	0.00%	4.54	0.17	4.72	12.36	57	10	17.08	NCLSLT
NBB0712_6-25	25	6	12	52849.7	52849.7	0.10%	8.34	0.13	8.47	38.14	29	5	46.62	NCLSLT
NBB0812_6-25	25	6	12	51278.6	51278.6	0.01%	7.46	0.23	7.69	46.76	40	7	54.45	NCLSLT
NBB0912_6-25	25	6	12	53721.2	53721.2	0.05%	8.03	0.23	8.26	45.61	29	5	53.88	NCLSLT
NBB0018_6-25	25	6	18	76606.3	76606.3	0.24%	18.31	0.39	18.71	154.52	30	4	173.24	NCLSLT
NBB0118_6-25	25	6	18	79518.8	79518.8	0.10%	19.25	0.37	19.62	107.83	38	5	127.46	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.06%	21.05	0.21	21.26	51.41	38	5	72.68	NCLSLT
NBB0318_6-25	25	6	18	79999.6	79999.6	0.24%	21.08	0.58	21.66	315.78	46	6	337.44	NCLSLT
NBB0418_6-25	25	6	18	85072.3	85072.3	0.15%	22.86	0.31	23.18	167.62	30	4	190.80	NCLSLT
NBB0518_6-25	25	6	18	81137.1	81137.1	0.11%	18.35	0.37	18.73	113.64	46	6	132.37	NCLSLT
NBB0618_6-25	25	6	18	76383.8	76383.8	0.01%	10.59	0.24	10.83	16.43	38	5	27.27	NCLSLT
NBB0718_6-25	25	6	18	77902.8	77902.8	0.13%	16.82	0.39	17.21	122.89	30	4	140.11	NCLSLT
NBB0818_6-25	25	6	18	75239.9	75239.9	0.07%	19.11	0.36	19.48	63.68	30	4	83.16	NCLSLT
NBB0918_6-25	25	6	18	81476.8	81476.8	0.07%	15.10	0.23	15.34	67.87	38	5	83.21	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%	4.10	0.12	4.22	14.69	25	5	18.92	NCLSLT
NBB016_6-50	50	6	6	50711.4	50711.4	0.05%	3.55	0.20	3.76	14.80	20	4	18.56	NCLSLT
NBB026_6-50	50	6	6	52234.3	52234.3	0.03%	4.95	0.12	5.07	34.92	20	4	39.99	NCLSLT
NBB036_6-50	50	6	6	51753.8	51753.8	0.02%	2.98	0.14	3.13	9.69	20	4	12.82	NCLSLT
NBB046_6-50	50	6	6	54083.4	54083.4	0.06%	4.35	0.32	4.68	27.42	15	3	32.10	NCLSLT
NBB056_6-50	50	6	6	52839.9	52839.9	0.03%	3.77	0.17	3.95	18.11	15	3	22.05	NCLSLT
NBB066_6-50	50	6	6	52063.7	52063.7	0.05%	4.44	0.14	4.58	34.26	20	4	38.84	NCLSLT
NBB076_6-50	50	6	6	54044.5	54044.5	0.04%	3.52	0.08	3.65	5.53	15	3	9.18	NCLSLT
NBB086_6-50	50	6	6	50951.4	50951.4	0.01%	3.59	0.19	3.78	15.50	15	3	19.29	NCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB096_6-50	50	6	6	50726.3	50726.3	0.03%	2.98	0.17	3.15	9.38	20	4	12.53	NCLSLT
NBB0012_6-50	50	6	12	102544.9	102544.9	0.01%	10.70	0.20	10.92	50.10	35	6	61.03	NCLSLT
NBB0112_6-50	50	6	12	101610.2	101610.2	0.03%	11.44	0.24	11.68	46.88	23	4	58.57	NCLSLT
NBB0212_6-50	50	6	12	105228.2	105228.2	0.07%	13.58	0.31	13.90	107.84	23	4	121.75	NCLSLT
NBB0312_6-50	50	6	12	102661.2	102661.2	0.04%	12.48	0.26	12.75	42.95	23	4	55.70	NCLSLT
NBB0412_6-50	50	6	12	109859.9	109859.9	0.07%	13.23	0.70	13.93	154.68	40	7	168.62	NCLSLT
NBB0512_6-50	50	6	12	105489.2	105489.2	0.05%	11.45	0.32	11.78	69.76	35	6	81.54	NCLSLT
NBB0612_6-50	50	6	12	102236.9	102236.9	0.12%	15.56	0.39	15.96	106.96	23	4	122.92	NCLSLT
NBB0712_6-50	50	6	12	107661.0	107661.0	0.06%	10.40	0.41	10.82	137.20	56	10	148.02	NCLSLT
NBB0812_6-50	50	6	12	99990.5	99990.5	0.04%	13.90	0.29	14.21	77.31	40	7	91.52	NCLSLT
NBB0912_6-50	50	6	12	102428.2	102428.2	0.04%	12.93	0.29	13.23	56.19	29	5	69.43	NCLSLT
NBB0018_6-50	50	6	18	152962.0	152962.0	0.05%	27.59	0.44	28.04	162.75	38	5	190.80	NCLSLT
NBB0118_6-50	50	6	18	151132.7	151132.7	0.05%	25.54	0.60	26.14	243.49	82	11	269.64	NCLSLT
NBB0218_6-50	50	6	18	154653.1	154653.1	0.07%	29.34	0.44	29.79	171.85	30	4	201.64	NCLSLT
NBB0318_6-50	50	6	18	154360.5	154360.5	0.04%	24.84	0.67	25.52	170.12	74	10	195.64	NCLSLT
NBB0418_6-50	50	6	18	164997.4	164997.4	0.07%	26.22	0.85	27.08	289.69	60	8	316.81	NCLSLT
NBB0518_6-50	50	6	18	155600.4	155600.4	0.11%	31.09	0.54	31.64	176.16	30	4	207.81	NCLSLT
NBB0618_6-50	50	6	18	154587.3	154587.3	0.14%	35.66	0.78	36.45	204.82	30	4	241.28	NCLSLT
NBB0718_6-50	50	6	18	159214.2	159214.2	0.04%	25.68	0.62	26.31	250.03	66	9	276.35	NCLSLT
NBB0818_6-50	50	6	18	151187.7	151187.7	0.05%	18.72	0.54	19.27	183.56	74	10	202.84	NCLSLT
NBB0918_6-50	50	6	18	154289.0	154289.0	0.03%	23.10	0.52	23.63	98.06	30	4	121.70	NCLSLT
AAA006_2-6	6	2	6	14376.3	14376.3	1.67%	0.37	0.02	0.39	0.15	10	2	0.54	TCHSHT
AAA016_2-6	6	2	6	11713.2	11713.2	0.86%	0.43	0.02	0.49	0.46	15	3	0.95	TCHSHT
AAA026_2-6	6	2	6	14956.5	14956.5	0.00%	0.26	0.01	0.28	0.26	15	3	0.54	TCHSHT
AAA036_2-6	6	2	6	16633.5	16633.5	1.41%	0.29	0.02	0.31	0.41	20	4	0.73	TCHSHT
AAA046_2-6	6	2	6	17453.8	17453.8	0.62%	0.33	0.02	0.35	0.46	15	3	0.82	TCHSHT
AAA056_2-6	6	2	6	17282.9	17282.9	1.73%	0.26	0.02	0.28	0.25	10	2	0.53	TCHSHT
AAA066_2-6	6	2	6	17374.1	17374.1	3.36%	0.34	0.02	0.36	0.46	15	3	0.82	TCHSHT
AAA076_2-6	6	2	6	17833.3	17833.3	3.11%	0.29	0.02	0.31	0.33	10	2	0.64	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%	0.24	0.02	0.26	0.13	10	2	0.39	TCHSHT
AAA096_2-6	6	2	6	13827.8	13827.8	4.90%	0.22	0.02	0.25	0.17	10	2	0.41	TCHSHT
AAA0012_2-6	6	2	12	24717.2	24717.2	0.63%	1.02	0.05	1.07	2.46	51	9	3.53	TCHSHT
AAA0112_2-6	6	2	12	24520.8	24520.8	1.09%	1.77	0.03	1.80	2.59	40	7	4.39	TCHSHT
AAA0212_2-6	6	2	12	27611.3	27611.3	0.50%	1.09	0.03	1.12	1.63	40	7	2.75	TCHSHT
AAA0412_2-6	6	2	12	28686.4	28686.4	0.44%	1.37	0.04	1.41	5.00	51	9	6.41	TCHSHT
AAA0512_2-6	6	2	12	31874.0	31874.0	0.62%	1.17	0.03	1.21	3.17	45	8	4.38	TCHSHT
AAA0612_2-6	6	2	12	28983.3	28983.3	0.48%	0.95	0.04	0.99	1.84	40	7	2.83	TCHSHT
AAA0712_2-6	6	2	12	27502.9	27502.9	0.18%	1.83	0.06	1.89	1.25	29	5	3.15	TCHSHT
AAA0812_2-6	6	2	12	22666.6	22666.6	0.76%	0.97	0.03	1.00	1.20	34	6	2.20	TCHSHT
AAA0912_2-6	6	2	12	27831.3	27831.3	0.26%	1.23	0.05	1.28	2.14	34	6	3.42	TCHSHT
AAA0018_2-6	6	2	18	34082.1	34082.1	1.34%	5.79	0.05	5.84	6.88	60	8	12.72	TCHSHT
AAA0118_2-6	6	2	18	34619.5	34619.5	1.25%	4.01	0.06	4.07	7.48	58	8	11.56	TCHSHT
AAA0218_2-6	6	2	18	39888.6	39888.6	0.50%	2.91	0.07	2.98	2.04	44	6	5.02	TCHSHT
AAA0418_2-6	6	2	18	37212.7	37212.7	0.00%	5.50	0.06	5.56	3.59	52	7	9.16	TCHSHT
AAA0518_2-6	6	2	18	42903.6	42903.6	0.40%	3.23	0.06	3.28	3.31	68	9	6.59	TCHSHT
AAA0618_2-6	6	2	18	40115.7	40115.7	1.62%	2.84	0.05	2.89	6.14	76	10	9.04	TCHSHT
AAA0718_2-6	6	2	18	39738.8	39738.8	0.29%	4.17	0.04	4.21	5.22	74	10	9.43	TCHSHT
AAA0818_2-6	6	2	18	32369.6	32369.6	1.07%	2.20	0.03	2.23	2.80	58	8	5.03	TCHSHT
AAA0918_2-6	6	2	18	36725.3	36725.3	1.22%	2.18	0.08	2.26	9.45	74	10	11.71	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%	0.47	0.02	0.50	0.53	20	4	1.03	TCHSHT
AAA016_2-12	12	2	6	25513.8	25513.8	0.00%	0.53	0.02	0.55	0.29	10	2	0.84	TCHSHT
AAA026_2-12	12	2	6	27271.4	27271.4	1.27%	0.58	0.02	0.60	0.28	10	2	0.89	TCHSHT
AAA036_2-12	12	2	6	30659.5	30659.5	2.73%	0.41	0.02	0.44	0.40	10	2	0.84	TCHSHT
AAA046_2-12	12	2	6	26439.7	26439.7	1.95%	0.44	0.03	0.47	0.43	15	3	0.90	TCHSHT
AAA056_2-12	12	2	6	30044.6	30044.6	0.60%	0.60	0.02	0.63	1.02	20	4	1.65	TCHSHT
AAA066_2-12	12	2	6	26421.1	26421.1	0.91%	0.48	0.02	0.50	0.50	15	3	1.00	TCHSHT
AAA076_2-12	12	2	6	26157.1	26157.1	0.22%	0.45	0.02	0.47	0.49	15	3	0.97	TCHSHT
AAA086_2-12	12	2	6	25046.5	25046.5	1.85%	0.43	0.03	0.45	1.01	20	4	1.46	TCHSHT
AAA096_2-12	12	2	6	28350.7	28350.7	0.72%	0.57	0.02	0.60	1.10	20	4	1.70	TCHSHT
AAA0012_2-12	12	2	12	42283.5	42283.5	0.47%	1.67	0.04	1.71	8.81	57	10	10.53	TCHSHT
AAA0112_2-12	12	2	12	42328.9	42328.9	0.20%	2.08	0.03	2.11	5.49	68	12	7.60	TCHSHT
AAA0212_2-12	12	2	12	44926.9	44926.9	0.16%	2.35	0.07	2.42	6.61	46	8	9.03	TCHSHT
AAA0312_2-12	12	2	12	54053.5	54053.5	0.87%	2.00	0.04	2.04	12.78	45	8	14.83	TCHSHT
AAA0412_2-12	12	2	12	45570.4	45570.4	0.01%	1.84	0.06	1.89	3.78	40	7	5.68	TCHSHT
AAA0512_2-12	12	2	12	53588.5	53588.5	0.71%	1.69	0.04	1.73	7.75	40	7	9.48	TCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0612_2-12	12	2	12	47032.0	47032.0	1.24%	2.10	0.05	2.15	7.92	62	11	10.08	TCHSHT
AAA0712_2-12	12	2	12	49718.1	49718.1	0.38%	1.60	0.04	1.64	6.09	45	8	7.74	TCHSHT
AAA0812_2-12	12	2	12	42183.9	42183.9	0.12%	1.38	0.05	1.43	3.57	64	11	5.00	TCHSHT
AAA0912_2-12	12	2	12	52630.8	52630.8	1.60%	2.38	0.06	2.44	22.08	51	9	24.51	TCHSHT
AAA0118_2-12	12	2	18	63424.4	63424.4	0.92%	5.43	0.06	5.49	20.04	68	9	25.54	TCHSHT
AAA0218_2-12	12	2	18	67246.2	67246.2	1.78%	5.45	0.06	5.51	24.06	74	10	29.57	TCHSHT
AAA0318_2-12	12	2	18	76840.1	76840.1	1.25%	3.45	0.06	3.52	22.22	82	11	25.75	TCHSHT
AAA0418_2-12	12	2	18	68320.2	68320.2	0.53%	4.61	0.06	4.67	27.31	98	13	31.98	TCHSHT
AAA0518_2-12	12	2	18	74985.3	74985.3	0.78%	4.24	0.08	4.32	43.03	82	11	47.35	TCHSHT
AAA0618_2-12	12	2	18	67675.7	67675.7	0.85%	4.76	0.05	4.81	14.30	74	10	19.11	TCHSHT
AAA0718_2-12	12	2	18	68347.2	68347.2	0.11%	3.28	0.06	3.34	8.29	74	10	11.63	TCHSHT
AAA0818_2-12	12	2	18	66011.0	66011.0	0.52%	3.18	0.06	3.25	12.82	52	7	16.07	TCHSHT
AAA0918_2-12	12	2	18	74783.5	74783.5	1.36%	4.56	0.07	4.64	64.36	76	10	69.00	TCHSHT
AAA006_2-25	25	2	6	49509.9	49509.9	0.55%	0.94	0.22	1.17	1.04	15	3	2.21	TCHSHT
AAA016_2-25	25	2	6	50149.2	50149.2	0.40%	0.84	0.04	0.87	0.91	15	3	1.79	TCHSHT
AAA026_2-25	25	2	6	53856.6	53856.6	0.85%	0.99	0.04	1.04	2.52	25	5	3.56	TCHSHT
AAA036_2-25	25	2	6	55329.5	55329.5	0.84%	0.77	0.05	0.83	1.68	20	4	2.51	TCHSHT
AAA046_2-25	25	2	6	56526.7	56526.7	0.61%	0.85	0.05	0.90	1.36	15	3	2.25	TCHSHT
AAA056_2-25	25	2	6	59141.0	59141.0	0.59%	0.99	0.03	1.03	2.62	15	3	3.65	TCHSHT
AAA066_2-25	25	2	6	47725.4	47725.4	0.89%	0.80	0.03	0.83	1.11	20	4	1.94	TCHSHT
AAA076_2-25	25	2	6	53414.3	53414.3	0.20%	0.96	0.03	0.99	1.63	15	3	2.61	TCHSHT
AAA086_2-25	25	2	6	56808.2	56808.2	0.31%	0.87	0.05	0.92	2.29	20	4	3.21	TCHSHT
AAA096_2-25	25	2	6	63731.0	63731.0	1.73%	0.88	0.04	0.92	3.02	15	3	3.94	TCHSHT
AAA0012_2-25	25	2	12	90613.6	90613.6	0.29%	3.43	0.05	3.48	25.88	57	10	29.36	TCHSHT
AAA0112_2-25	25	2	12	95838.6	95838.6	0.02%	2.76	0.08	2.84	5.82	23	4	8.66	TCHSHT
AAA0212_2-25	25	2	12	93278.3	93278.3	0.69%	3.92	0.04	3.96	28.72	51	9	32.68	TCHSHT
AAA0312_2-25	25	2	12	96987.1	96987.1	0.73%	2.75	0.11	2.86	66.26	64	11	69.12	TCHSHT
AAA0412_2-25	25	2	12	96159.3	96159.3	0.46%	3.67	0.05	3.72	21.51	39	7	25.23	TCHSHT
AAA0512_2-25	25	2	12	109219.0	109219.0	0.93%	3.43	0.08	3.51	23.00	52	9	26.51	TCHSHT
AAA0612_2-25	25	2	12	92758.1	92758.1	0.80%	2.91	0.09	3.00	32.63	57	10	35.63	TCHSHT
AAA0712_2-25	25	2	12	97512.7	97512.7	0.64%	2.65	0.04	2.69	23.54	51	9	26.23	TCHSHT
AAA0812_2-25	25	2	12	101196.1	101196.1	0.72%	2.98	0.07	3.05	70.31	58	10	73.37	TCHSHT
AAA0912_2-25	25	2	12	106428.6	106428.6	0.79%	3.90	0.10	3.99	31.67	40	7	35.66	TCHSHT
AAA0018_2-25	25	2	18	130774.3	130774.3	0.28%	7.86	0.13	7.99	38.90	52	7	46.89	TCHSHT
AAA0118_2-25	25	2	18	134438.1	134438.1	0.29%	8.17	0.31	8.48	67.92	90	12	76.40	TCHSHT
AAA0218_2-25	25	2	18	132732.4	132732.4	0.67%	10.56	0.12	10.69	191.42	142	19	202.12	TCHSHT
AAA0318_2-25	25	2	18	144771.2	144771.2	0.29%	6.95	0.13	7.08	90.82	76	10	97.91	TCHSHT
AAA0418_2-25	25	2	18	139454.7	139454.7	0.58%	8.29	0.11	8.40	82.47	68	9	90.87	TCHSHT
AAA0518_2-25	25	2	18	151932.6	151932.6	0.61%	8.31	0.06	8.37	99.86	54	7	108.24	TCHSHT
AAA0618_2-25	25	2	18	128971.7	128971.7	0.00%	6.30	0.10	6.40	48.51	98	13	54.91	TCHSHT
AAA0718_2-25	25	2	18	144428.2	144428.2	0.95%	9.53	0.20	9.74	148.90	52	7	158.64	TCHSHT
AAA0818_2-25	25	2	18	141859.7	141859.7	0.67%	8.07	0.09	8.17	108.26	60	8	116.43	TCHSHT
AAA0918_2-25	25	2	18	152876.6	152876.6	0.82%	9.23	0.14	9.38	156.69	90	12	166.07	TCHSHT
AAA006_2-50	50	2	6	97573.3	97573.3	0.51%	1.41	0.09	1.51	3.95	15	3	5.46	TCHSHT
AAA016_2-50	50	2	6	100726.7	100726.7	0.41%	1.47	0.07	1.54	1.62	10	2	3.16	TCHSHT
AAA026_2-50	50	2	6	98899.2	98899.2	0.31%	1.56	0.03	1.60	4.75	15	3	6.34	TCHSHT
AAA036_2-50	50	2	6	106277.4	106277.4	0.15%	1.41	0.04	1.46	4.20	20	4	5.65	TCHSHT
AAA046_2-50	50	2	6	113024.6	113024.6	0.38%	1.61	0.07	1.68	10.38	20	4	12.07	TCHSHT
AAA056_2-50	50	2	6	110274.0	110274.0	0.13%	1.66	0.06	1.72	8.35	15	3	10.07	TCHSHT
AAA066_2-50	50	2	6	99557.8	99557.8	0.57%	1.59	0.06	1.65	6.00	25	5	7.65	TCHSHT
AAA076_2-50	50	2	6	106279.1	106279.1	0.04%	1.75	0.08	1.84	6.23	10	2	8.06	TCHSHT
AAA086_2-50	50	2	6	103110.8	103110.8	0.22%	1.76	0.07	1.83	3.82	10	2	5.65	TCHSHT
AAA096_2-50	50	2	6	108023.4	108023.4	0.13%	1.59	0.07	1.66	4.28	15	3	5.94	TCHSHT
AAA0012_2-50	50	2	12	180053.1	180053.1	0.12%	4.62	0.09	4.72	54.21	57	10	58.93	TCHSHT
AAA0112_2-50	50	2	12	187243.1	187243.1	0.33%	4.76	0.12	4.89	35.90	40	7	40.83	TCHSHT
AAA0212_2-50	50	2	12	181037.0	181037.0	0.10%	4.42	0.08	4.50	84.21	63	11	88.71	TCHSHT
AAA0312_2-50	50	2	12	192956.8	192956.8	0.25%	4.38	0.15	4.53	28.41	40	7	32.94	TCHSHT
AAA0412_2-50	50	2	12	201277.4	201277.4	0.42%	6.65	0.11	6.76	186.45	86	15	193.21	TCHSHT
AAA0512_2-50	50	2	12	198105.5	198105.5	0.23%	4.25	0.17	4.42	108.48	80	14	112.90	TCHSHT
AAA0612_2-50	50	2	12	177305.6	177305.6	0.07%	4.89	0.08	4.97	29.27	46	8	34.24	TCHSHT
AAA0712_2-50	50	2	12	190877.3	190877.3	0.43%	6.58	0.12	6.70	197.93	69	12	204.63	TCHSHT
AAA0812_2-50	50	2	12	183303.6	183303.6	0.16%	4.89	0.11	5.00	65.67	40	7	70.68	TCHSHT
AAA0912_2-50	50	2	12	195310.8	195310.8	0.21%	6.14	0.10	6.25	120.43	91	16	126.68	TCHSHT
AAA0018_2-50	50	2	18	262027.2	262027.2	0.08%	10.82	0.11	10.93	102.93	68	9	113.86	TCHSHT
AAA0118_2-50	50	2	18	270581.1	270581.1	0.22%	12.01	0.24	12.25	101.46	52	7	113.71	TCHSHT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0218_2-50	50	2	18	261148.4	261148.4	0.19%	10.72	0.14	10.87	164.37	90	12	175.24	TCHSHT
AAA0318_2-50	50	2	18	282629.4	282629.4	0.22%	10.23	0.17	10.40	154.19	98	13	164.59	TCHSHT
AAA0418_2-50	50	2	18	292910.6	292910.6	0.41%	15.22	0.19	15.42	220.21	46	6	235.63	TCHSHT
AAA0518_2-50	50	2	18	287821.1	287821.1	0.18%	9.80	0.15	9.96	245.86	142	19	255.82	TCHSHT
AAA0618_2-50	50	2	18	259576.5	259576.5	0.16%	12.26	0.17	12.43	98.51	60	8	110.95	TCHSHT
AAA0718_2-50	50	2	18	274136.3	274136.3	0.20%	11.31	0.23	11.54	140.63	38	5	152.18	TCHSHT
AAA0818_2-50	50	2	18	265971.1	265971.1	0.18%	11.09	0.16	11.25	106.41	46	6	117.66	TCHSHT
AAA0918_2-50	50	2	18	284299.1	284299.1	0.30%	13.29	0.16	13.45	178.76	54	7	192.21	TCHSHT
AAA006_4-6	6	4	6	9656.0	9656.0	0.18%	0.54	0.03	0.57	0.57	20	4	1.14	TCHSHT
AAA016_4-6	6	4	6	12260.2	12260.2	0.00%	0.67	0.03	0.70	1.24	20	4	1.94	TCHSHT
AAA026_4-6	6	4	6	12234.9	12234.9	1.36%	0.66	0.04	0.70	0.26	10	2	0.96	TCHSHT
AAA036_4-6	6	4	6	12615.1	12615.1	0.00%	0.50	0.03	0.54	0.78	35	7	1.31	TCHSHT
AAA046_4-6	6	4	6	10727.5	10727.5	0.35%	0.52	0.04	0.56	0.64	15	3	1.20	TCHSHT
AAA056_4-6	6	4	6	15596.4	15596.4	1.35%	0.49	0.05	0.54	0.24	10	2	0.78	TCHSHT
AAA066_4-6	6	4	6	12429.5	12429.5	1.14%	0.64	0.04	0.68	0.65	25	5	1.34	TCHSHT
AAA076_4-6	6	4	6	13765.9	13765.9	0.00%	0.41	0.03	0.44	0.22	15	3	0.66	TCHSHT
AAA086_4-6	6	4	6	10162.2	10162.2	2.20%	0.42	0.04	0.46	0.24	15	3	0.70	TCHSHT
AAA096_4-6	6	4	6	15045.7	15045.7	1.83%	0.52	0.03	0.56	0.62	20	4	1.19	TCHSHT
AAA0012_4-6	6	4	12	17867.8	17867.8	0.24%	2.35	0.06	2.41	2.66	46	8	5.08	TCHSHT
AAA0112_4-6	6	4	12	25189.5	25189.5	0.00%	4.25	0.06	4.31	5.92	40	7	10.23	TCHSHT
AAA0212_4-6	6	4	12	23051.1	23051.1	0.00%	2.42	0.09	2.52	4.70	52	9	7.22	TCHSHT
AAA0312_4-6	6	4	12	25861.1	25861.1	1.19%	1.89	0.07	1.97	1.49	40	7	3.46	TCHSHT
AAA0412_4-6	6	4	12	23547.9	23547.9	0.35%	2.30	0.07	2.37	4.65	34	6	7.02	TCHSHT
AAA0512_4-6	6	4	12	30402.1	30402.1	0.48%	2.48	0.09	2.57	3.74	57	10	6.32	TCHSHT
AAA0612_4-6	6	4	12	21649.9	21649.9	0.39%	2.02	0.07	2.08	2.92	51	9	5.00	TCHSHT
AAA0712_4-6	6	4	12	24500.1	24500.1	0.19%	2.00	0.07	2.07	2.59	40	7	4.65	TCHSHT
AAA0812_4-6	6	4	12	21130.5	21130.5	0.00%	1.96	0.11	2.07	2.17	35	6	4.24	TCHSHT
AAA0912_4-6	6	4	12	26116.7	26116.7	0.46%	2.58	0.05	2.63	0.98	29	5	3.61	TCHSHT
AAA0018_4-6	6	4	18	27411.2	27411.2	0.13%	9.98	0.10	10.08	6.04	52	7	16.13	TCHSHT
AAA0118_4-6	6	4	18	33454.6	33454.6	0.40%	11.92	0.14	12.07	6.24	44	6	18.31	TCHSHT
AAA0218_4-6	6	4	18	33394.5	33394.5	0.66%	7.93	0.14	8.07	12.91	90	12	20.98	TCHSHT
AAA0318_4-6	6	4	18	39031.6	39031.6	0.27%	8.13	0.12	8.26	6.37	52	7	14.63	TCHSHT
AAA0418_4-6	6	4	18	35328.3	35328.3	1.58%	13.07	0.16	13.23	16.03	90	12	29.26	TCHSHT
AAA0518_4-6	6	4	18	43309.1	43309.1	1.18%	8.95	0.09	9.04	8.74	76	10	17.78	TCHSHT
AAA0618_4-6	6	4	18	33360.2	33360.2	0.08%	6.58	0.14	6.72	8.00	90	12	14.73	TCHSHT
AAA0718_4-6	6	4	18	37233.1	37233.1	0.83%	5.56	0.10	5.66	12.65	60	8	18.32	TCHSHT
AAA0818_4-6	6	4	18	28053.5	28053.5	0.43%	6.74	0.16	6.90	2.78	38	5	9.68	TCHSHT
AAA0918_4-6	6	4	18	38491.1	38491.1	0.63%	9.11	0.08	9.19	4.85	44	6	14.04	TCHSHT
AAA006_4-12	12	4	6	20483.6	20483.6	0.27%	0.72	0.07	0.79	0.97	15	3	1.76	TCHSHT
AAA016_4-12	12	4	6	23762.3	23762.3	0.01%	1.08	0.07	1.16	9.31	25	5	10.47	TCHSHT
AAA026_4-12	12	4	6	19003.4	19003.4	0.98%	0.73	0.09	0.82	0.78	15	3	1.60	TCHSHT
AAA036_4-12	12	4	6	20884.0	20884.0	0.78%	0.89	0.04	0.93	0.59	15	3	1.52	TCHSHT
AAA046_4-12	12	4	6	23103.8	23103.8	0.21%	0.93	0.05	0.98	0.92	15	3	1.90	TCHSHT
AAA056_4-12	12	4	6	24970.0	24970.0	3.21%	0.87	0.08	0.95	1.85	20	4	2.80	TCHSHT
AAA066_4-12	12	4	6	21405.2	21405.2	1.00%	0.75	0.06	0.81	0.74	20	4	1.56	TCHSHT
AAA076_4-12	12	4	6	21776.1	21776.1	1.51%	0.98	0.05	1.03	1.70	15	3	2.73	TCHSHT
AAA086_4-12	12	4	6	22937.6	22937.6	1.14%	0.66	0.05	0.71	0.50	15	3	1.22	TCHSHT
AAA096_4-12	12	4	6	22947.5	22947.5	3.58%	0.95	0.04	0.99	3.51	20	4	4.51	TCHSHT
AAA0012_4-12	12	4	12	36599.5	36599.5	0.05%	3.85	0.16	4.02	15.64	46	8	19.66	TCHSHT
AAA0112_4-12	12	4	12	41915.6	41915.6	1.28%	6.06	0.10	6.16	41.47	40	7	47.63	TCHSHT
AAA0212_4-12	12	4	12	37524.8	37524.8	0.37%	3.16	0.08	3.24	11.20	63	11	14.44	TCHSHT
AAA0312_4-12	12	4	12	41043.8	41043.8	0.74%	3.10	0.08	3.19	24.16	51	9	27.35	TCHSHT
AAA0412_4-12	12	4	12	42842.5	42842.5	0.77%	3.71	0.08	3.79	20.51	40	7	24.31	TCHSHT
AAA0512_4-12	12	4	12	46259.8	46259.8	1.24%	4.01	0.10	4.11	6.06	56	10	10.18	TCHSHT
AAA0612_4-12	12	4	12	40111.9	40111.9	0.24%	2.59	0.05	2.65	14.02	74	13	16.67	TCHSHT
AAA0712_4-12	12	4	12	43400.2	43400.2	1.75%	3.40	0.12	3.52	44.40	29	5	47.92	TCHSHT
AAA0812_4-12	12	4	12	42025.7	42025.7	0.48%	2.31	0.10	2.41	4.59	45	8	7.01	TCHSHT
AAA0912_4-12	12	4	12	45230.4	45230.4	1.26%	3.80	0.11	3.91	50.48	52	9	54.40	TCHSHT
AAA0018_4-12	12	4	18	54745.7	54745.7	0.58%	8.25	0.18	8.43	23.25	74	10	31.68	TCHSHT
AAA0118_4-12	12	4	18	61461.2	61461.2	1.67%	12.61	0.14	12.75	61.45	46	6	74.19	TCHSHT
AAA0218_4-12	12	4	18	53871.6	53871.6	0.13%	4.92	0.16	5.08	6.71	60	8	11.79	TCHSHT
AAA0318_4-12	12	4	18	62426.1	62426.1	0.88%	8.87	0.20	9.07	22.93	66	9	32.01	TCHSHT
AAA0418_4-12	12	4	18	63379.7	63379.7	1.12%	9.48	0.16	9.64	99.74	82	11	109.38	TCHSHT
AAA0518_4-12	12	4	18	67058.2	67058.2	1.16%	9.49	0.15	9.64	42.65	68	9	52.28	TCHSHT
AAA0618_4-12	12	4	18	59524.2	59524.2	0.35%	8.59	0.12	8.71	18.25	106	14	26.96	TCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0718_4-12	12	4	18	66632.4	66632.4	1.94%	10.30	0.16	10.46	120.80	68	9	131.27	TCHSHT
AAA0818_4-12	12	4	18	63600.7	63600.7	0.26%	6.63	0.15	6.78	43.61	68	9	50.39	TCHSHT
AAA0918_4-12	12	4	18	64404.3	64404.3	1.59%	10.16	0.18	10.35	78.26	76	10	88.60	TCHSHT
AAA006_4-25	25	4	6	37935.7	37935.7	0.57%	1.55	0.07	1.62	5.22	15	3	6.84	TCHSHT
AAA016_4-25	25	4	6	46404.0	46404.0	0.57%	2.10	0.10	2.20	6.65	15	3	8.86	TCHSHT
AAA026_4-25	25	4	6	44289.5	44289.5	1.79%	2.07	0.08	2.16	13.50	15	3	15.66	TCHSHT
AAA036_4-25	25	4	6	43671.6	43671.6	1.13%	1.38	0.14	1.52	13.21	25	5	14.73	TCHSHT
AAA046_4-25	25	4	6	44748.9	44748.9	1.21%	1.75	0.21	1.97	25.45	20	4	27.42	TCHSHT
AAA056_4-25	25	4	6	48516.9	48516.9	1.08%	1.68	0.06	1.74	10.73	15	3	12.47	TCHSHT
AAA066_4-25	25	4	6	39045.3	39045.3	1.86%	1.20	0.04	1.24	4.01	20	4	5.26	TCHSHT
AAA076_4-25	25	4	6	44019.9	44019.9	0.78%	1.67	0.09	1.76	39.32	25	5	41.08	TCHSHT
AAA086_4-25	25	4	6	40585.9	40585.9	0.36%	1.90	0.07	1.98	9.33	20	4	11.31	TCHSHT
AAA096_4-25	25	4	6	46540.8	46540.8	0.50%	1.43	0.06	1.50	7.27	15	3	8.77	TCHSHT
AAA0012_4-25	25	4	12	75824.3	75824.3	0.82%	5.17	0.39	5.56	81.30	46	8	86.86	TCHSHT
AAA0112_4-25	25	4	12	84087.2	84087.2	0.87%	7.02	0.22	7.25	170.04	80	14	177.28	TCHSHT
AAA0212_4-25	25	4	12	80307.2	80307.2	1.54%	6.29	0.26	6.56	193.32	69	12	199.89	TCHSHT
AAA0312_4-25	25	4	12	83989.2	83989.2	0.51%	5.61	0.21	5.83	109.46	103	18	115.29	TCHSHT
AAA0412_4-25	25	4	12	84613.6	84613.6	0.62%	5.07	0.29	5.36	140.47	86	15	145.84	TCHSHT
AAA0512_4-25	25	4	12	87742.9	87742.9	0.54%	4.84	0.11	4.96	67.06	46	8	72.02	TCHSHT
AAA0612_4-25	25	4	12	74436.7	74436.7	0.32%	4.09	0.10	4.20	27.60	69	12	31.80	TCHSHT
AAA0712_4-25	25	4	12	84407.1	84407.1	0.61%	6.85	0.31	7.16	75.71	58	10	82.88	TCHSHT
AAA0812_4-25	25	4	12	79056.3	79056.3	0.42%	7.65	0.13	7.78	104.42	97	17	112.20	TCHSHT
AAA0912_4-25	25	4	12	84927.2	84927.2	0.04%	4.63	0.17	4.80	22.11	40	7	26.92	TCHSHT
AAA0018_4-25	25	4	18	109842.0	109842.0	0.61%	20.93	0.34	21.27	89.00	60	8	110.27	TCHSHT
AAA0118_4-25	25	4	18	122566.8	122566.8	1.17%	16.68	0.43	17.11	337.93	90	12	355.05	TCHSHT
AAA0218_4-25	25	4	18	118790.2	118790.2	1.39%	17.55	0.45	18.00	245.35	68	9	263.35	TCHSHT
AAA0318_4-25	25	4	18	122611.1	122611.1	0.74%	20.90	0.23	21.13	130.66	82	11	151.79	TCHSHT
AAA0418_4-25	25	4	18	124978.7	124978.7	0.72%	13.37	0.25	13.63	191.55	106	14	205.18	TCHSHT
AAA0518_4-25	25	4	18	127042.2	127042.2	0.69%	20.85	0.28	21.14	149.26	84	11	170.41	TCHSHT
AAA0618_4-25	25	4	18	111068.8	111068.8	0.24%	9.19	0.14	9.34	83.65	74	10	92.99	TCHSHT
AAA0718_4-25	25	4	18	122913.3	122913.3	0.34%	13.48	0.31	13.80	81.63	76	10	95.43	TCHSHT
AAA0818_4-25	25	4	18	113340.9	113340.9	0.63%	15.97	0.33	16.30	74.03	38	5	90.34	TCHSHT
AAA0918_4-25	25	4	18	125178.5	125178.5	0.42%	11.48	0.27	11.75	64.93	74	10	76.69	TCHSHT
AAA006_4-50	50	4	6	82046.4	82046.4	0.44%	2.81	0.30	3.12	13.07	15	3	16.19	TCHSHT
AAA016_4-50	50	4	6	84978.1	84978.1	0.15%	2.92	0.31	3.23	14.28	20	4	17.51	TCHSHT
AAA026_4-50	50	4	6	87404.8	87404.8	0.41%	2.88	0.14	3.03	50.91	20	4	53.95	TCHSHT
AAA036_4-50	50	4	6	88656.3	88656.3	0.80%	2.31	0.22	2.52	12.43	20	4	14.95	TCHSHT
AAA046_4-50	50	4	6	94956.4	94956.4	0.69%	2.77	0.27	3.04	36.08	25	5	39.12	TCHSHT
AAA056_4-50	50	4	6	89627.3	89627.3	0.22%	3.05	0.06	3.11	12.91	15	3	16.03	TCHSHT
AAA066_4-50	50	4	6	80283.3	80283.3	0.49%	2.12	0.34	2.47	14.01	20	4	16.48	TCHSHT
AAA076_4-50	50	4	6	84122.1	84122.1	0.60%	2.89	0.25	3.14	20.27	20	4	23.41	TCHSHT
AAA086_4-50	50	4	6	84064.7	84064.7	0.33%	2.44	0.14	2.59	30.47	25	5	33.06	TCHSHT
AAA096_4-50	50	4	6	94983.6	94983.6	0.31%	2.79	0.15	2.95	18.59	25	5	21.55	TCHSHT
AAA0012_4-50	50	4	12	160457.0	160457.0	0.45%	8.14	0.44	8.58	160.61	52	9	169.20	TCHSHT
AAA0112_4-50	50	4	12	157889.3	157889.3	0.30%	8.08	0.51	8.60	196.79	86	15	205.39	TCHSHT
AAA0212_4-50	50	4	12	159179.3	159179.3	0.28%	11.49	0.30	11.80	101.80	46	8	113.60	TCHSHT
AAA0312_4-50	50	4	12	167105.4	167105.4	0.48%	8.68	0.30	8.98	138.31	63	11	147.29	TCHSHT
AAA0412_4-50	50	4	12	171523.0	171523.0	0.32%	10.06	0.49	10.56	93.21	41	7	103.77	TCHSHT
AAA0512_4-50	50	4	12	165382.1	165382.1	0.25%	10.24	0.47	10.72	126.77	75	13	137.49	TCHSHT
AAA0612_4-50	50	4	12	150651.4	150651.4	0.16%	7.89	0.35	8.25	63.09	58	10	71.34	TCHSHT
AAA0712_4-50	50	4	12	162657.3	162657.3	0.39%	9.07	0.20	9.49	176.92	63	11	186.41	TCHSHT
AAA0812_4-50	50	4	12	157589.2	157589.2	0.26%	8.43	0.26	8.69	62.22	40	7	70.92	TCHSHT
AAA0912_4-50	50	4	12	173105.3	173105.3	0.31%	7.00	0.18	7.18	53.46	51	9	60.64	TCHSHT
AAA0018_4-50	50	4	18	228717.9	228717.9	0.22%	21.03	0.87	21.90	305.32	168	22	327.23	TCHSHT
AAA0118_4-50	50	4	18	232995.7	232995.7	0.29%	23.31	0.83	24.15	333.44	136	18	357.60	TCHSHT
AAA0218_4-50	50	4	18	238803.1	238803.1	0.34%	20.69	0.64	21.35	291.14	90	12	312.49	TCHSHT
AAA0318_4-50	50	4	18	243730.8	243730.8	0.23%	24.04	0.86	24.91	286.86	136	18	311.78	TCHSHT
AAA0418_4-50	50	4	18	254204.0	254204.0	0.44%	25.65	0.61	26.27	297.06	76	10	323.33	TCHSHT
AAA0518_4-50	50	4	18	244930.8	244930.8	0.36%	20.68	0.94	21.63	215.86	76	10	237.50	TCHSHT
AAA0618_4-50	50	4	18	224211.2	224211.2	0.06%	19.68	0.44	20.13	82.86	68	9	102.99	TCHSHT
AAA0718_4-50	50	4	18	241640.3	241640.3	0.39%	22.67	0.47	23.14	344.51	92	12	367.66	TCHSHT
AAA0818_4-50	50	4	18	228443.1	228443.1	0.29%	18.38	0.52	18.92	205.45	82	11	224.37	TCHSHT
AAA0918_4-50	50	4	18	252083.6	252083.6	0.18%	18.89	0.27	19.16	149.38	68	9	168.55	TCHSHT
AAA006_6-6	6	6	6	9705.3	9705.3	1.05%	0.86	0.04	0.90	0.53	15	3	1.43	TCHSHT
AAA016_6-6	6	6	6	13232.4	13232.4	0.82%	1.18	0.11	1.29	1.05	15	3	2.35	TCHSHT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA026_6-6	6	6	6	12553.0	12553.0	2.71%	0.86	0.07	0.93	0.78	20	4	1.72	TCHSHT
AAA036_6-6	6	6	6	13913.0	13913.0	0.00%	0.86	0.05	0.92	0.37	20	4	1.29	TCHSHT
AAA046_6-6	6	6	6	14476.2	14476.2	2.91%	1.04	0.05	1.09	0.76	15	3	1.85	TCHSHT
AAA056_6-6	6	6	6	16377.7	16377.7	0.00%	1.00	0.04	1.05	0.53	15	3	1.57	TCHSHT
AAA066_6-6	6	6	6	11931.0	11931.0	2.94%	0.55	0.03	0.59	0.67	15	3	1.25	TCHSHT
AAA076_6-6	6	6	6	15541.3	15541.3	1.23%	1.04	0.05	1.09	0.80	15	3	1.89	TCHSHT
AAA086_6-6	6	6	6	14910.4	14910.4	2.18%	0.88	0.05	0.94	0.51	15	3	1.45	TCHSHT
AAA096_6-6	6	6	6	16063.1	16063.1	0.88%	0.85	0.08	0.93	0.64	15	3	1.57	TCHSHT
AAA0012_6-6	6	6	12	19902.6	19902.6	0.21%	6.18	0.12	6.30	5.29	51	9	11.59	TCHSHT
AAA0112_6-6	6	6	12	24283.2	24283.2	0.22%	5.11	0.22	5.33	8.09	74	13	13.42	TCHSHT
AAA0212_6-6	6	6	12	24081.2	24081.2	0.00%	4.65	0.18	4.83	2.82	51	9	7.66	TCHSHT
AAA0312_6-6	6	6	12	27342.4	27342.4	0.41%	6.10	0.21	6.31	4.68	45	8	10.99	TCHSHT
AAA0412_6-6	6	6	12	26878.7	26878.7	0.00%	5.98	0.14	6.12	3.19	40	7	9.32	TCHSHT
AAA0512_6-6	6	6	12	28867.3	28867.3	1.03%	3.33	0.11	3.45	6.72	80	14	10.17	TCHSHT
AAA0612_6-6	6	6	12	23033.0	23033.0	0.82%	4.84	0.09	4.93	3.96	46	8	8.89	TCHSHT
AAA0712_6-6	6	6	12	28873.3	28873.3	0.56%	4.92	0.17	5.09	5.47	51	9	10.56	TCHSHT
AAA0812_6-6	6	6	12	26887.7	26887.7	1.12%	5.05	0.14	5.20	6.02	57	10	11.22	TCHSHT
AAA0912_6-6	6	6	12	30250.0	30250.0	0.68%	5.20	0.11	5.32	3.92	40	7	9.24	TCHSHT
AAA0018_6-6	6	6	18	29443.4	29443.4	1.27%	17.04	0.14	17.18	10.72	52	7	27.89	TCHSHT
AAA0218_6-6	6	6	18	32704.8	32704.8	0.15%	16.77	0.20	16.97	3.22	30	4	20.19	TCHSHT
AAA0318_6-6	6	6	18	38418.7	38418.7	0.88%	22.51	0.17	22.68	7.62	60	8	30.31	TCHSHT
AAA0418_6-6	6	6	18	39258.4	39258.4	0.35%	35.24	0.39	35.63	11.23	54	7	46.86	TCHSHT
AAA0518_6-6	6	6	18	44414.7	44414.7	1.57%	16.70	0.22	16.93	18.64	38	5	35.57	TCHSHT
AAA0618_6-6	6	6	18	33671.1	33671.1	0.22%	9.32	0.14	9.47	5.59	52	7	15.06	TCHSHT
AAA0718_6-6	6	6	18	42172.9	42172.9	0.57%	17.62	0.15	17.77	9.49	68	9	27.26	TCHSHT
AAA0818_6-6	6	6	18	42859.8	42859.8	1.04%	18.19	0.35	18.54	13.45	68	9	32.00	TCHSHT
AAA0918_6-6	6	6	18	46123.9	46123.9	0.50%	19.14	0.29	19.43	28.17	60	8	47.61	TCHSHT
AAA006_6-12	12	6	6	20666.3	20666.3	0.44%	1.32	0.05	1.38	0.93	15	3	2.31	TCHSHT
AAA016_6-12	12	6	6	21093.8	21093.8	1.16%	1.42	0.06	1.48	6.41	20	4	7.89	TCHSHT
AAA026_6-12	12	6	6	20000.2	20000.2	2.22%	1.21	0.09	1.30	5.80	25	5	7.10	TCHSHT
AAA036_6-12	12	6	6	20894.2	20894.2	1.69%	1.06	0.06	1.13	2.43	20	4	3.55	TCHSHT
AAA046_6-12	12	6	6	18945.0	18945.0	0.65%	1.40	0.06	1.46	0.85	15	3	2.32	TCHSHT
AAA056_6-12	12	6	6	20949.6	20949.6	3.52%	1.00	0.05	1.05	1.21	15	3	2.26	TCHSHT
AAA066_6-12	12	6	6	18677.5	18677.5	1.86%	1.11	0.06	1.17	0.62	15	3	1.79	TCHSHT
AAA076_6-12	12	6	6	24300.5	24300.5	1.35%	1.69	0.06	1.75	4.54	25	5	6.30	TCHSHT
AAA086_6-12	12	6	6	21208.2	21208.2	1.26%	1.66	0.05	1.72	1.28	20	4	3.00	TCHSHT
AAA096_6-12	12	6	6	24355.1	24355.1	1.54%	1.64	0.07	1.72	3.11	15	3	4.83	TCHSHT
AAA0012_6-12	12	6	12	38214.8	38214.8	0.81%	7.89	0.12	8.01	13.58	58	10	21.59	TCHSHT
AAA0112_6-12	12	6	12	40206.6	40206.6	0.27%	6.40	0.14	6.55	16.56	57	10	23.11	TCHSHT
AAA0212_6-12	12	6	12	38269.1	38269.1	0.86%	7.20	0.19	7.39	50.42	46	8	57.81	TCHSHT
AAA0312_6-12	12	6	12	40716.7	40716.7	0.38%	6.11	0.32	6.44	12.14	63	11	18.58	TCHSHT
AAA0412_6-12	12	6	12	36503.9	36503.9	0.50%	6.06	0.13	6.20	21.12	52	9	27.32	TCHSHT
AAA0512_6-12	12	6	12	42243.8	42243.8	0.78%	8.65	0.19	8.85	50.85	98	17	59.70	TCHSHT
AAA0612_6-12	12	6	12	34863.6	34863.6	0.17%	4.75	0.09	4.84	7.60	63	11	12.44	TCHSHT
AAA0712_6-12	12	6	12	47785.9	47785.9	1.69%	7.01	0.24	7.25	76.76	46	8	84.01	TCHSHT
AAA0812_6-12	12	6	12	39550.3	39550.3	1.27%	5.24	0.30	5.55	61.57	75	13	67.12	TCHSHT
AAA0912_6-12	12	6	12	44190.0	44190.0	0.38%	6.53	0.15	6.68	12.54	34	6	19.22	TCHSHT
AAA0018_6-12	12	6	18	57065.6	57065.6	0.81%	26.20	0.21	26.41	29.52	60	8	55.94	TCHSHT
AAA0118_6-12	12	6	18	62399.1	62399.1	0.98%	25.33	0.22	25.56	44.32	52	7	69.87	TCHSHT
AAA0218_6-12	12	6	18	56258.9	56258.9	1.25%	20.44	0.29	20.73	42.98	60	8	63.70	TCHSHT
AAA0318_6-12	12	6	18	58244.1	58244.1	0.90%	13.04	0.45	13.49	38.33	52	7	51.82	TCHSHT
AAA0418_6-12	12	6	18	53135.0	53135.0	0.55%	18.91	0.41	19.32	20.05	60	8	39.37	TCHSHT
AAA0518_6-12	12	6	18	63140.0	63140.0	0.84%	17.73	0.17	17.91	32.06	74	10	49.97	TCHSHT
AAA0618_6-12	12	6	18	54730.8	54730.8	0.48%	14.93	0.19	15.13	19.65	54	7	34.78	TCHSHT
AAA0718_6-12	12	6	18	69556.9	69556.9	2.04%	27.33	0.32	27.66	84.50	38	5	112.16	TCHSHT
AAA0818_6-12	12	6	18	58516.0	58516.0	1.59%	22.68	0.24	22.92	45.17	60	8	68.09	TCHSHT
AAA0918_6-12	12	6	18	66211.0	66211.0	1.16%	23.57	0.26	23.84	22.32	46	6	46.16	TCHSHT
AAA006_6-25	25	6	6	39865.8	39865.8	0.27%	2.47	0.14	2.62	9.37	25	5	11.99	TCHSHT
AAA016_6-25	25	6	6	40380.6	40380.6	0.90%	2.21	0.13	2.34	11.86	20	4	14.19	TCHSHT
AAA026_6-25	25	6	6	42314.5	42314.5	1.11%	2.65	0.34	2.99	34.75	25	5	37.74	TCHSHT
AAA036_6-25	25	6	6	41201.3	41201.3	0.44%	2.96	0.10	3.06	4.65	25	5	7.71	TCHSHT
AAA046_6-25	25	6	6	43783.9	43783.9	1.54%	3.86	0.25	4.11	46.51	20	4	50.62	TCHSHT
AAA056_6-25	25	6	6	40800.0	40800.0	0.79%	2.06	0.11	2.17	9.80	10	2	11.97	TCHSHT
AAA066_6-25	25	6	6	39533.9	39533.9	0.75%	2.28	0.28	2.57	36.17	20	4	38.74	TCHSHT
AAA076_6-25	25	6	6	43072.7	43072.7	0.34%	2.41	0.14	2.56	13.54	20	4	16.10	TCHSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA086_6-25	25	6	6	41620.3	41620.3	1.69%	2.39	0.39	2.78	27.44	20	4	30.22	TCHSHT
AAA096_6-25	25	6	6	43058.4	43058.4	1.22%	2.70	0.13	2.83	9.94	30	6	12.77	TCHSHT
AAA0012_6-25	25	6	12	77790.1	77790.1	1.37%	11.12	0.43	11.55	115.71	52	9	127.26	TCHSHT
AAA0112_6-25	25	6	12	80426.5	80426.5	1.50%	10.93	0.42	11.36	123.89	57	10	135.26	TCHSHT
AAA0212_6-25	25	6	12	81068.9	81068.9	1.40%	10.52	0.65	11.17	131.09	64	11	142.26	TCHSHT
AAA0312_6-25	25	6	12	78500.1	78500.1	1.17%	11.18	0.22	11.41	67.73	29	5	79.14	TCHSHT
AAA0412_6-25	25	6	12	81788.3	81788.3	1.16%	11.88	0.30	12.19	154.31	74	13	166.51	TCHSHT
AAA0512_6-25	25	6	12	77373.4	77373.4	0.91%	7.66	0.62	8.29	74.76	41	7	83.05	TCHSHT
AAA0612_6-25	25	6	12	74914.1	74914.1	0.88%	9.74	0.19	9.94	100.12	69	12	110.07	TCHSHT
AAA0712_6-25	25	6	12	78271.0	78271.0	0.31%	9.20	0.16	9.36	28.71	57	10	38.07	TCHSHT
AAA0812_6-25	25	6	12	76133.5	76133.5	1.04%	8.34	0.52	8.86	92.59	52	9	101.45	TCHSHT
AAA0912_6-25	25	6	12	83236.8	83236.8	1.12%	10.36	0.22	10.58	124.77	64	11	135.35	TCHSHT
AAA0018_6-25	25	6	18	112810.5	112810.5	1.31%	29.20	2.18	31.38	202.17	68	9	233.55	TCHSHT
AAA0118_6-25	25	6	18	118250.6	118250.6	0.86%	29.16	1.90	31.06	182.74	90	12	213.81	TCHSHT
AAA0218_6-25	25	6	18	121280.9	121280.9	1.00%	30.14	1.51	31.65	230.55	98	13	262.21	TCHSHT
AAA0318_6-25	25	6	18	117605.4	117605.4	0.92%	35.65	0.38	36.04	290.70	76	10	326.74	TCHSHT
AAA0418_6-25	25	6	18	121487.2	121487.2	0.88%	34.51	0.56	35.08	195.94	68	9	231.02	TCHSHT
AAA0518_6-25	25	6	18	118471.1	118471.1	0.82%	20.36	0.51	20.88	126.53	60	8	147.41	TCHSHT
AAA0618_6-25	25	6	18	109886.2	109886.2	1.00%	24.79	0.32	25.11	162.11	84	11	187.23	TCHSHT
AAA0718_6-25	25	6	18	115555.7	115555.7	0.56%	18.37	0.50	18.88	134.16	82	11	153.04	TCHSHT
AAA0818_6-25	25	6	18	109980.7	109980.7	1.23%	19.81	0.83	20.65	240.40	96	13	261.05	TCHSHT
AAA0918_6-25	25	6	18	123228.6	123228.6	0.91%	31.23	0.92	32.15	298.86	122	16	331.02	TCHSHT
AAA006_6-50	50	6	6	75030.0	75030.0	0.41%	3.33	0.36	3.71	60.64	30	6	64.35	TCHSHT
AAA016_6-50	50	6	6	77745.0	77745.0	0.72%	3.71	0.89	4.60	34.84	20	4	39.45	TCHSHT
AAA026_6-50	50	6	6	80577.6	80577.6	0.80%	3.81	0.85	4.66	49.59	20	4	54.25	TCHSHT
AAA036_6-50	50	6	6	78476.5	78476.5	0.19%	3.53	0.25	3.78	25.90	20	4	29.69	TCHSHT
AAA046_6-50	50	6	6	81050.9	81050.9	0.62%	4.08	0.41	4.49	70.47	25	5	74.97	TCHSHT
AAA056_6-50	50	6	6	81673.7	81673.7	0.51%	4.39	0.22	4.61	92.68	25	5	97.30	TCHSHT
AAA066_6-50	50	6	6	78583.0	78583.0	0.85%	4.42	0.41	4.83	69.94	25	5	74.78	TCHSHT
AAA076_6-50	50	6	6	82025.5	82025.5	0.43%	3.80	0.32	4.12	17.73	20	4	21.85	TCHSHT
AAA086_6-50	50	6	6	77190.2	77190.2	0.54%	3.77	0.33	4.10	34.69	20	4	38.80	TCHSHT
AAA096_6-50	50	6	6	78287.2	78287.2	0.72%	4.02	0.40	4.43	56.87	20	4	61.30	TCHSHT
AAA0012_6-50	50	6	12	146149.4	146149.4	0.52%	10.61	0.61	11.23	127.55	58	10	138.78	TCHSHT
AAA0112_6-50	50	6	12	148825.8	148825.8	0.38%	12.31	0.75	13.06	138.64	64	11	151.70	TCHSHT
AAA0212_6-50	50	6	12	153403.9	153403.9	0.46%	13.19	1.84	15.03	439.55	121	21	454.59	TCHSHT
AAA0312_6-50	50	6	12	151925.0	151925.0	0.38%	14.35	0.49	14.84	264.43	111	19	279.28	TCHSHT
AAA0412_6-50	50	6	12	158725.3	158725.3	0.38%	14.19	1.54	15.73	246.90	98	17	262.65	TCHSHT
AAA0512_6-50	50	6	12	156282.6	156282.6	0.64%	13.48	0.60	14.09	314.73	103	18	328.82	TCHSHT
AAA0612_6-50	50	6	12	147654.4	147654.4	0.68%	20.73	0.90	21.65	348.08	86	15	369.73	TCHSHT
AAA0712_6-50	50	6	12	156687.7	156687.7	0.22%	14.96	0.65	15.62	122.65	64	11	138.27	TCHSHT
AAA0812_6-50	50	6	12	143666.2	143666.2	0.40%	11.37	1.01	12.38	136.90	69	12	149.29	TCHSHT
AAA0912_6-50	50	6	12	151190.1	151190.1	0.55%	12.53	0.83	13.37	217.11	69	12	230.49	TCHSHT
AAA0018_6-50	50	6	18	216078.5	216078.5	0.40%	30.75	1.12	31.88	160.04	68	9	191.92	TCHSHT
AAA0118_6-50	50	6	18	218480.2	218480.2	0.47%	30.98	3.15	34.15	167.36	76	10	201.51	TCHSHT
AAA0218_6-50	50	6	18	224003.3	224003.3	0.52%	39.15	3.66	42.82	471.61	114	15	514.44	TCHSHT
AAA0318_6-50	50	6	18	225551.8	225551.8	0.29%	40.35	1.79	42.15	313.87	114	15	356.03	TCHSHT
AAA0418_6-50	50	6	18	236024.7	236024.7	0.42%	44.69	2.63	47.32	282.43	84	11	329.76	TCHSHT
AAA0518_6-50	50	6	18	225698.8	225698.8	0.60%	40.78	0.95	41.74	498.98	152	20	540.73	TCHSHT
AAA0618_6-50	50	6	18	219255.7	219360.1	0.62%	62.80	1.26	64.07	600.04	124	17	664.12	TCHSHT
AAA0718_6-50	50	6	18	230283.9	230283.9	0.39%	32.56	1.25	33.82	304.62	92	12	338.45	TCHSHT
AAA0818_6-50	50	6	18	214430.9	214430.9	0.21%	32.34	1.67	34.02	97.26	46	6	131.28	TCHSHT
AAA0918_6-50	50	6	18	223989.8	223989.8	0.32%	37.54	1.26	38.81	211.10	76	10	249.92	TCHSHT
AAB006_2-6	6	2	6	15032.2	15032.2	3.01%	0.40	0.01	0.41	0.26	15	3	0.67	TCHSLT
AAB016_2-6	6	2	6	12115.9	12115.9	1.88%	0.50	0.02	0.52	0.36	15	3	0.88	TCHSLT
AAB026_2-6	6	2	6	16179.2	16179.2	4.35%	0.28	0.01	0.30	0.19	10	2	0.49	TCHSLT
AAB046_2-6	6	2	6	19047.5	19047.5	0.63%	0.37	0.02	0.40	0.38	10	2	0.77	TCHSLT
AAB056_2-6	6	2	6	17310.9	17310.9	0.00%	0.36	0.02	0.38	0.47	20	4	0.85	TCHSLT
AAB066_2-6	6	2	6	17751.3	17751.3	1.05%	0.32	0.01	0.34	0.31	15	3	0.65	TCHSLT
AAB076_2-6	6	2	6	18549.1	18549.1	3.06%	0.37	0.02	0.39	0.38	15	3	0.77	TCHSLT
AAB086_2-6	6	2	6	13687.8	13687.8	1.24%	0.25	0.02	0.27	0.13	10	2	0.41	TCHSLT
AAB096_2-6	6	2	6	14361.6	14361.6	1.18%	0.28	0.03	0.31	0.22	10	2	0.52	TCHSLT
AAB0012_2-6	6	2	12	26001.8	26001.8	1.62%	1.13	0.04	1.17	2.81	40	7	3.98	TCHSLT
AAB0112_2-6	6	2	12	25147.8	25147.8	1.08%	1.77	0.03	1.80	3.30	46	8	5.10	TCHSLT
AAB0212_2-6	6	2	12	28243.8	28243.8	0.00%	1.10	0.02	1.13	0.73	23	4	1.85	TCHSLT
AAB0412_2-6	6	2	12	33175.5	33175.5	1.97%	1.63	0.03	1.66	4.91	58	10	6.57	TCHSLT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0512_2-6	6	2	12	33621.7	33621.7	1.23%	1.53	0.03	1.56	5.24	62	11	6.80	TCHSLT
AAB0612_2-6	6	2	12	31105.2	31105.2	1.71%	1.31	0.04	1.34	1.46	29	5	2.80	TCHSLT
AAB0712_2-6	6	2	12	28304.6	28304.6	1.22%	1.39	0.04	1.43	1.29	51	9	2.73	TCHSLT
AAB0812_2-6	6	2	12	22971.5	22971.5	0.60%	0.90	0.02	0.92	1.14	40	7	2.06	TCHSLT
AAB0912_2-6	6	2	12	29612.0	29612.0	2.01%	1.72	0.03	1.75	10.29	50	9	12.04	TCHSLT
AAB0018_2-6	6	2	18	34900.0	34900.0	0.96%	5.98	0.06	6.04	8.48	80	11	14.52	TCHSLT
AAB0118_2-6	6	2	18	35498.4	35498.4	0.96%	5.05	0.06	5.11	9.01	74	10	14.11	TCHSLT
AAB0218_2-6	6	2	18	41362.0	41362.0	1.51%	3.18	0.06	3.24	3.17	38	5	6.41	TCHSLT
AAB0418_2-6	6	2	18	39518.0	39518.0	2.31%	4.90	0.07	4.97	11.76	52	7	16.73	TCHSLT
AAB0518_2-6	6	2	18	44150.6	44150.6	0.47%	3.36	0.06	3.42	5.57	52	7	8.99	TCHSLT
AAB0618_2-6	6	2	18	41671.5	41671.5	1.13%	3.81	0.05	3.86	8.46	60	8	12.32	TCHSLT
AAB0718_2-6	6	2	18	40740.1	40740.1	0.40%	4.47	0.05	4.52	8.67	84	11	13.19	TCHSLT
AAB0818_2-6	6	2	18	32702.6	32702.6	0.00%	2.70	0.03	2.73	3.30	74	10	6.03	TCHSLT
AAB0918_2-6	6	2	18	37376.7	37376.7	0.07%	2.20	0.05	2.26	8.50	60	8	10.76	TCHSLT
AAB006_2-12	12	2	6	23304.7	23304.7	0.91%	0.69	0.03	0.71	0.25	10	2	0.97	TCHSLT
AAB016_2-12	12	2	6	26910.3	26910.3	0.26%	0.54	0.02	0.56	0.75	15	3	1.31	TCHSLT
AAB026_2-12	12	2	6	28670.5	28670.5	1.83%	0.64	0.02	0.67	0.75	15	3	1.42	TCHSLT
AAB036_2-12	12	2	6	30921.4	30921.4	1.67%	0.40	0.04	0.45	0.59	15	3	1.04	TCHSLT
AAB046_2-12	12	2	6	26725.3	26725.3	0.43%	0.48	0.02	0.50	0.32	10	2	0.82	TCHSLT
AAB056_2-12	12	2	6	30766.1	30766.1	0.93%	0.57	0.03	0.60	0.46	10	2	1.05	TCHSLT
AAB066_2-12	12	2	6	27762.0	27762.0	1.50%	0.52	0.03	0.56	0.74	15	3	1.30	TCHSLT
AAB076_2-12	12	2	6	27458.7	27458.7	0.90%	0.45	0.02	0.48	0.35	10	2	0.83	TCHSLT
AAB086_2-12	12	2	6	26519.4	26519.4	3.12%	0.45	0.03	0.48	0.77	20	4	1.25	TCHSLT
AAB096_2-12	12	2	6	29042.6	29042.6	0.71%	0.58	0.02	0.60	1.18	20	4	1.78	TCHSLT
AAB0012_2-12	12	2	12	43716.0	43716.0	0.48%	1.59	0.05	1.64	11.29	40	7	12.93	TCHSLT
AAB0112_2-12	12	2	12	43157.4	43157.4	0.86%	1.99	0.04	2.03	6.56	39	7	8.59	TCHSLT
AAB0212_2-12	12	2	12	45886.1	45886.1	0.48%	2.36	0.03	2.39	4.35	34	6	6.75	TCHSLT
AAB0312_2-12	12	2	12	54886.8	54886.8	1.13%	2.51	0.03	2.54	20.28	63	11	22.82	TCHSLT
AAB0412_2-12	12	2	12	46144.7	46144.7	0.32%	1.86	0.03	1.89	5.55	51	9	7.45	TCHSLT
AAB0512_2-12	12	2	12	54578.8	54578.8	1.05%	2.07	0.05	2.12	20.02	62	11	22.14	TCHSLT
AAB0612_2-12	12	2	12	47781.6	47781.6	0.22%	2.22	0.03	2.26	5.74	51	9	8.00	TCHSLT
AAB0712_2-12	12	2	12	53166.1	53166.1	0.48%	1.71	0.03	1.74	11.25	51	9	12.99	TCHSLT
AAB0812_2-12	12	2	12	42933.4	42933.4	0.66%	1.55	0.06	1.61	10.32	63	11	11.94	TCHSLT
AAB0912_2-12	12	2	12	54013.8	54013.8	1.19%	2.58	0.03	2.62	22.55	51	9	25.17	TCHSLT
AAB0118_2-12	12	2	18	64985.7	64985.7	1.34%	5.31	0.06	5.38	26.65	52	7	32.03	TCHSLT
AAB0218_2-12	12	2	18	67789.8	67789.8	1.04%	6.42	0.05	6.48	30.67	54	7	37.15	TCHSLT
AAB0318_2-12	12	2	18	78401.5	78401.5	1.93%	3.62	0.07	3.70	54.90	68	9	58.60	TCHSLT
AAB0418_2-12	12	2	18	69132.5	69132.5	0.78%	4.62	0.09	4.72	33.46	90	12	38.18	TCHSLT
AAB0518_2-12	12	2	18	76587.7	76587.7	1.79%	4.63	0.08	4.71	80.60	60	8	85.31	TCHSLT
AAB0618_2-12	12	2	18	69015.2	69015.2	0.58%	4.92	0.06	4.98	21.73	82	11	26.72	TCHSLT
AAB0718_2-12	12	2	18	69721.9	69721.9	0.44%	3.76	0.04	3.80	18.11	74	10	21.92	TCHSLT
AAB0818_2-12	12	2	18	67318.6	67318.6	0.82%	4.59	0.08	4.67	27.77	74	10	32.45	TCHSLT
AAB0918_2-12	12	2	18	76006.0	76006.0	1.45%	6.09	0.06	6.16	75.18	104	14	81.34	TCHSLT
AAB006_2-25	25	2	6	50852.7	50852.7	0.77%	1.02	0.04	1.06	2.58	25	5	3.64	TCHSLT
AAB016_2-25	25	2	6	51151.4	51151.4	0.67%	0.86	0.03	0.88	1.23	15	3	2.11	TCHSLT
AAB026_2-25	25	2	6	56054.6	56054.6	0.47%	1.03	0.05	1.08	2.26	20	4	3.34	TCHSLT
AAB036_2-25	25	2	6	56201.1	56201.1	0.28%	1.02	0.07	1.09	1.25	15	3	2.34	TCHSLT
AAB046_2-25	25	2	6	58836.9	58836.9	0.89%	0.95	0.02	0.97	2.33	20	4	3.31	TCHSLT
AAB056_2-25	25	2	6	60418.9	60418.9	0.39%	1.02	0.04	1.06	1.94	20	4	3.01	TCHSLT
AAB066_2-25	25	2	6	48455.5	48455.5	0.55%	0.78	0.03	0.81	0.61	10	2	1.43	TCHSLT
AAB076_2-25	25	2	6	54655.9	54655.9	0.27%	0.92	0.03	0.95	1.53	15	3	2.48	TCHSLT
AAB086_2-25	25	2	6	59136.4	59136.4	1.30%	0.94	0.02	0.96	5.79	20	4	6.75	TCHSLT
AAB096_2-25	25	2	6	65467.9	65467.9	1.08%	1.09	0.03	1.13	10.25	25	5	11.38	TCHSLT
AAB0012_2-25	25	2	12	92399.0	92399.0	0.67%	3.39	0.07	3.45	22.57	34	6	26.03	TCHSLT
AAB0112_2-25	25	2	12	97548.2	97548.2	0.46%	2.78	0.07	2.86	15.19	35	6	18.05	TCHSLT
AAB0212_2-25	25	2	12	95624.8	95624.8	1.03%	4.32	0.10	4.42	43.17	46	8	47.59	TCHSLT
AAB0312_2-25	25	2	12	99103.7	99103.7	0.94%	2.96	0.10	3.06	91.10	92	16	94.16	TCHSLT
AAB0412_2-25	25	2	12	98503.6	98503.6	0.60%	3.57	0.06	3.63	57.10	85	15	60.73	TCHSLT
AAB0512_2-25	25	2	12	111136.2	111136.2	0.79%	4.37	0.05	4.43	57.62	40	7	62.05	TCHSLT
AAB0612_2-25	25	2	12	94321.5	94321.5	0.79%	3.62	0.05	3.68	17.43	34	6	21.11	TCHSLT
AAB0712_2-25	25	2	12	98371.3	98371.3	0.69%	3.30	0.07	3.37	116.49	80	14	119.87	TCHSLT
AAB0812_2-25	25	2	12	102949.7	102949.7	0.64%	3.64	0.25	3.89	49.47	57	10	53.36	TCHSLT
AAB0912_2-25	25	2	12	108632.1	108632.1	0.97%	4.25	0.11	4.37	51.76	46	8	56.13	TCHSLT
AAB0018_2-25	25	2	18	132206.2	132206.2	0.49%	8.63	0.15	8.78	118.45	112	15	127.23	TCHSLT
AAB0118_2-25	25	2	18	135803.8	135803.8	0.41%	8.13	0.12	8.26	73.95	104	14	82.21	TCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0218_2-25	25	2	18	134471.3	134471.3	0.74%	10.32	0.13	10.45	84.66	46	6	95.11	TCHSLT
AAB0318_2-25	25	2	18	147263.0	147263.0	0.46%	7.29	0.10	7.40	131.41	68	9	138.81	TCHSLT
AAB0418_2-25	25	2	18	141487.0	141487.0	0.80%	8.27	0.28	8.55	99.16	90	12	107.71	TCHSLT
AAB0518_2-25	25	2	18	154633.0	154633.0	0.84%	9.07	0.12	9.20	156.66	60	8	165.85	TCHSLT
AAB0618_2-25	25	2	18	131355.9	131355.9	0.76%	7.39	0.07	7.46	72.27	52	7	79.73	TCHSLT
AAB0718_2-25	25	2	18	146071.6	146071.6	0.62%	12.34	0.08	12.43	159.78	60	8	172.21	TCHSLT
AAB0818_2-25	25	2	18	143202.7	143202.7	0.61%	11.41	0.09	11.50	299.55	158	21	311.05	TCHSLT
AAB0918_2-25	25	2	18	156159.8	156159.8	1.10%	8.55	0.11	8.66	134.03	52	7	142.70	TCHSLT
AAB006_2-50	50	2	6	99442.9	99442.9	0.23%	2.07	0.11	2.18	8.34	20	4	10.52	TCHSLT
AAB016_2-50	50	2	6	102375.1	102375.1	0.31%	1.60	0.07	1.67	8.20	25	5	9.87	TCHSLT
AAB026_2-50	50	2	6	101886.4	101886.4	0.39%	1.55	0.07	1.62	5.95	15	3	7.58	TCHSLT
AAB036_2-50	50	2	6	108813.7	108813.7	0.15%	1.67	0.06	1.75	5.67	15	3	7.42	TCHSLT
AAB046_2-50	50	2	6	116860.6	116860.6	0.72%	2.00	0.08	2.08	16.85	20	4	18.93	TCHSLT
AAB056_2-50	50	2	6	114295.7	114295.7	0.30%	1.55	0.06	1.63	4.24	20	4	5.87	TCHSLT
AAB066_2-50	50	2	6	102208.3	102208.3	0.25%	1.74	0.05	1.79	7.65	20	4	9.44	TCHSLT
AAB076_2-50	50	2	6	110694.0	110694.0	0.64%	1.86	0.06	1.93	18.17	25	5	20.10	TCHSLT
AAB086_2-50	50	2	6	104826.7	104826.7	0.11%	1.63	0.05	1.68	5.22	20	4	6.91	TCHSLT
AAB096_2-50	50	2	6	111234.2	111234.2	0.15%	1.57	0.08	1.64	4.06	25	5	5.71	TCHSLT
AAB0012_2-50	50	2	12	183000.6	183000.6	0.33%	5.80	0.15	5.95	115.74	57	10	121.69	TCHSLT
AAB0112_2-50	50	2	12	188832.7	188832.7	0.21%	5.70	0.11	5.82	98.47	86	15	104.29	TCHSLT
AAB0212_2-50	50	2	12	185275.6	185275.6	0.37%	6.10	0.12	6.22	123.81	46	8	130.04	TCHSLT
AAB0312_2-50	50	2	12	195048.9	195048.9	0.22%	5.60	0.12	5.72	76.37	46	8	82.09	TCHSLT
AAB0412_2-50	50	2	12	206256.1	206256.1	0.30%	7.45	0.11	7.56	158.06	63	11	165.63	TCHSLT
AAB0512_2-50	50	2	12	202706.5	202706.5	0.55%	4.98	0.14	5.11	79.35	40	7	84.46	TCHSLT
AAB0612_2-50	50	2	12	179806.0	179806.0	0.24%	6.11	0.13	6.24	150.83	86	15	157.08	TCHSLT
AAB0712_2-50	50	2	12	196884.0	196884.0	0.46%	6.47	0.12	6.60	166.58	51	9	173.18	TCHSLT
AAB0812_2-50	50	2	12	186009.5	186009.5	0.19%	4.64	0.13	4.78	102.49	74	13	107.27	TCHSLT
AAB0912_2-50	50	2	12	199989.0	199989.0	0.40%	7.37	0.10	7.46	121.97	40	7	129.44	TCHSLT
AAB0018_2-50	50	2	18	265103.3	265103.3	0.46%	12.22	0.22	12.45	97.20	52	7	109.66	TCHSLT
AAB0118_2-50	50	2	18	272646.9	272646.9	0.21%	15.20	0.12	15.33	186.06	76	10	201.40	TCHSLT
AAB0218_2-50	50	2	18	264949.1	264949.1	0.19%	12.52	0.18	12.71	229.79	84	11	242.50	TCHSLT
AAB0318_2-50	50	2	18	285836.6	285836.6	0.38%	11.73	0.45	12.19	245.22	82	11	257.41	TCHSLT
AAB0418_2-50	50	2	18	300424.4	300424.4	0.41%	15.15	0.17	15.33	321.37	62	8	336.70	TCHSLT
AAB0518_2-50	50	2	18	292390.4	292390.4	0.35%	12.10	0.16	12.27	141.95	46	6	154.22	TCHSLT
AAB0618_2-50	50	2	18	262429.7	262429.7	0.30%	16.37	0.16	16.53	108.42	52	7	124.95	TCHSLT
AAB0718_2-50	50	2	18	279720.9	279720.9	0.47%	17.15	0.24	17.39	159.68	38	5	177.08	TCHSLT
AAB0818_2-50	50	2	18	268210.8	268210.8	0.23%	12.00	0.21	12.21	145.23	60	8	157.44	TCHSLT
AAB0918_2-50	50	2	18	290330.9	290330.9	0.36%	14.80	0.30	15.10	297.40	74	10	312.50	TCHSLT
AAB006_4-6	6	4	6	10219.7	10219.7	2.73%	0.47	0.04	0.51	0.21	10	2	0.72	TCHSLT
AAB016_4-6	6	4	6	13740.9	13740.9	0.81%	0.80	0.07	0.87	1.37	15	3	2.24	TCHSLT
AAB026_4-6	6	4	6	12910.9	12910.9	0.08%	0.80	0.03	0.83	0.20	10	2	1.03	TCHSLT
AAB036_4-6	6	4	6	13880.9	13880.9	0.23%	0.58	0.04	0.62	0.50	15	3	1.12	TCHSLT
AAB046_4-6	6	4	6	11616.2	11616.2	1.26%	0.82	0.03	0.85	0.42	10	2	1.28	TCHSLT
AAB056_4-6	6	4	6	16828.3	16828.3	2.70%	0.55	0.04	0.59	0.58	15	3	1.17	TCHSLT
AAB066_4-6	6	4	6	13081.5	13081.5	2.18%	0.72	0.04	0.76	0.55	15	3	1.31	TCHSLT
AAB076_4-6	6	4	6	15298.1	15298.1	4.37%	0.60	0.03	0.63	0.70	15	3	1.34	TCHSLT
AAB086_4-6	6	4	6	10809.7	10809.7	2.12%	0.49	0.04	0.53	0.21	10	2	0.74	TCHSLT
AAB096_4-6	6	4	6	15320.5	15320.5	1.09%	0.55	0.04	0.60	0.28	10	2	0.88	TCHSLT
AAB0012_4-6	6	4	12	18500.6	18500.6	0.35%	3.51	0.07	3.59	2.94	57	10	6.53	TCHSLT
AAB0112_4-6	6	4	12	27069.1	27069.1	0.94%	4.16	0.09	4.26	6.94	51	9	11.20	TCHSLT
AAB0212_4-6	6	4	12	24729.8	24729.8	0.15%	3.62	0.10	3.73	3.37	45	8	7.10	TCHSLT
AAB0312_4-6	6	4	12	27597.6	27597.6	0.73%	2.73	0.08	2.81	2.33	34	6	5.14	TCHSLT
AAB0412_4-6	6	4	12	25959.4	25959.4	0.41%	2.92	0.08	3.00	19.53	57	10	22.54	TCHSLT
AAB0512_4-6	6	4	12	31945.6	31945.6	0.47%	3.66	0.06	3.73	1.42	29	5	5.14	TCHSLT
AAB0612_4-6	6	4	12	22997.6	22997.6	1.11%	2.58	0.05	2.63	4.46	46	8	7.10	TCHSLT
AAB0712_4-6	6	4	12	25576.6	25576.6	0.19%	3.02	0.05	3.07	4.01	69	12	7.08	TCHSLT
AAB0812_4-6	6	4	12	23198.9	23198.9	0.02%	2.83	0.09	2.92	3.68	57	10	6.60	TCHSLT
AAB0912_4-6	6	4	12	27500.4	27500.4	0.54%	2.99	0.07	3.06	1.91	40	7	4.98	TCHSLT
AAB0018_4-6	6	4	18	28384.8	28384.8	0.02%	7.86	0.10	7.97	4.65	46	6	12.62	TCHSLT
AAB0118_4-6	6	4	18	36079.6	36079.6	1.35%	17.34	0.17	17.51	21.75	60	8	39.26	TCHSLT
AAB0218_4-6	6	4	18	35670.0	35670.0	0.64%	10.11	0.12	10.24	36.19	112	15	46.42	TCHSLT
AAB0318_4-6	6	4	18	41650.5	41650.5	0.64%	7.39	0.10	7.49	6.31	60	8	13.80	TCHSLT
AAB0418_4-6	6	4	18	37302.2	37302.2	0.95%	15.53	0.12	15.64	17.85	90	12	33.49	TCHSLT
AAB0518_4-6	6	4	18	45117.3	45117.3	0.48%	9.81	0.16	9.97	8.59	52	7	18.56	TCHSLT
AAB0618_4-6	6	4	18	36484.9	36484.9	0.75%	7.94	0.09	8.03	15.83	82	11	23.87	TCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_4-6	6	4	18	38865.5	38865.5	0.37%	6.57	0.12	6.69	19.51	90	12	26.21	TCHSLT
AAB0818_4-6	6	4	18	29391.7	29391.7	0.88%	7.46	0.10	7.56	6.03	66	9	13.59	TCHSLT
AAB0918_4-6	6	4	18	39455.1	39455.1	0.11%	11.78	0.11	11.89	3.87	52	7	15.76	TCHSLT
AAB006_4-12	12	4	6	21186.6	21186.6	0.33%	0.92	0.05	0.97	1.52	20	4	2.49	TCHSLT
AAB016_4-12	12	4	6	25578.8	25578.8	2.58%	1.17	0.05	1.22	8.76	20	4	9.98	TCHSLT
AAB026_4-12	12	4	6	19787.0	19787.0	2.44%	0.67	0.06	0.73	1.79	15	3	2.53	TCHSLT
AAB036_4-12	12	4	6	22008.7	22008.7	1.28%	1.10	0.03	1.13	0.81	15	3	1.94	TCHSLT
AAB046_4-12	12	4	6	24080.9	24080.9	0.41%	1.15	0.05	1.20	1.85	15	3	3.06	TCHSLT
AAB056_4-12	12	4	6	25529.5	25529.5	0.43%	1.00	0.04	1.04	1.29	20	4	2.34	TCHSLT
AAB066_4-12	12	4	6	22200.3	22200.3	0.39%	1.01	0.06	1.07	1.47	20	4	2.54	TCHSLT
AAB076_4-12	12	4	6	23516.6	23516.6	3.70%	1.16	0.05	1.22	10.53	15	3	11.74	TCHSLT
AAB086_4-12	12	4	6	23703.1	23703.1	1.49%	0.86	0.04	0.90	2.02	20	4	2.93	TCHSLT
AAB096_4-12	12	4	6	23760.8	23760.8	1.12%	1.15	0.06	1.21	2.08	15	3	3.29	TCHSLT
AAB0012_4-12	12	4	12	37468.6	37468.6	0.10%	5.05	0.08	5.14	24.60	57	10	29.74	TCHSLT
AAB0112_4-12	12	4	12	44216.8	44216.8	2.29%	5.41	0.09	5.50	60.36	52	9	65.87	TCHSLT
AAB0212_4-12	12	4	12	38108.2	38108.2	0.11%	2.80	0.09	2.90	16.05	51	9	18.95	TCHSLT
AAB0312_4-12	12	4	12	42816.6	42816.6	2.05%	4.63	0.11	4.74	61.52	63	11	66.26	TCHSLT
AAB0412_4-12	12	4	12	43914.7	43914.7	1.15%	4.27	0.08	4.35	16.87	52	9	21.23	TCHSLT
AAB0512_4-12	12	4	12	48724.4	48724.4	2.43%	4.30	0.07	4.37	32.63	51	9	37.00	TCHSLT
AAB0612_4-12	12	4	12	41976.6	41976.6	1.58%	3.30	0.13	3.43	18.28	57	10	21.71	TCHSLT
AAB0712_4-12	12	4	12	46063.8	46063.8	2.41%	3.44	0.16	3.60	74.16	63	11	77.77	TCHSLT
AAB0812_4-12	12	4	12	42819.8	42819.8	0.09%	3.24	0.07	3.32	10.08	57	10	13.40	TCHSLT
AAB0912_4-12	12	4	12	46987.0	46987.0	1.80%	4.79	0.13	4.92	55.09	63	11	60.01	TCHSLT
AAB0018_4-12	12	4	18	56001.8	56001.8	1.06%	13.51	0.11	13.62	78.55	74	10	92.18	TCHSLT
AAB0118_4-12	12	4	18	63347.1	63347.1	1.60%	14.89	0.15	15.05	105.49	60	8	120.55	TCHSLT
AAB0218_4-12	12	4	18	54914.7	54914.7	0.58%	7.45	0.13	7.59	14.35	52	7	21.95	TCHSLT
AAB0318_4-12	12	4	18	64914.3	64914.3	1.85%	12.45	0.15	12.60	84.06	90	12	96.67	TCHSLT
AAB0418_4-12	12	4	18	65549.0	65549.0	1.75%	12.58	0.20	12.79	74.89	60	8	87.68	TCHSLT
AAB0518_4-12	12	4	18	69315.0	69315.0	1.57%	12.87	0.14	13.02	99.12	82	11	112.14	TCHSLT
AAB0618_4-12	12	4	18	61507.3	61507.3	1.14%	10.73	0.11	10.85	25.21	66	9	36.05	TCHSLT
AAB0718_4-12	12	4	18	70189.8	70189.8	2.10%	13.11	0.22	13.34	232.63	98	13	245.97	TCHSLT
AAB0818_4-12	12	4	18	64641.6	64641.6	0.00%	8.52	0.18	8.70	33.91	60	8	42.61	TCHSLT
AAB0918_4-12	12	4	18	66098.8	66098.8	1.37%	9.75	0.17	9.92	73.19	46	6	83.12	TCHSLT
AAB006_4-25	25	4	6	39108.2	39108.2	0.41%	1.73	0.10	1.84	16.78	25	5	18.62	TCHSLT
AAB016_4-25	25	4	6	48085.3	48085.3	0.95%	2.03	0.09	2.12	10.85	20	4	12.96	TCHSLT
AAB026_4-25	25	4	6	45921.7	45921.7	1.37%	2.28	0.15	2.43	38.48	25	5	40.91	TCHSLT
AAB036_4-25	25	4	6	45564.6	45564.6	0.89%	1.95	0.15	2.10	12.67	15	3	14.78	TCHSLT
AAB046_4-25	25	4	6	46528.0	46528.0	1.50%	1.84	0.08	1.92	12.68	30	6	14.60	TCHSLT
AAB056_4-25	25	4	6	50200.9	50200.9	1.07%	2.00	0.09	2.09	15.54	20	4	17.63	TCHSLT
AAB066_4-25	25	4	6	39466.7	39466.7	0.30%	1.57	0.08	1.66	3.90	15	3	5.56	TCHSLT
AAB076_4-25	25	4	6	45642.9	45642.9	0.94%	2.04	0.06	2.10	15.19	25	5	17.30	TCHSLT
AAB086_4-25	25	4	6	42073.7	42073.7	1.04%	2.13	0.11	2.24	6.86	20	4	9.09	TCHSLT
AAB096_4-25	25	4	6	47553.0	47553.0	0.40%	1.91	0.11	2.02	0.88	10	2	2.90	TCHSLT
AAB0012_4-25	25	4	12	77086.7	77086.7	0.82%	7.10	0.14	7.25	156.79	70	12	164.04	TCHSLT
AAB0112_4-25	25	4	12	86200.7	86200.7	1.07%	9.05	0.19	9.24	317.33	122	21	326.57	TCHSLT
AAB0212_4-25	25	4	12	82839.7	82839.7	1.55%	7.70	0.09	7.80	270.36	75	13	278.17	TCHSLT
AAB0312_4-25	25	4	12	85275.3	85275.3	0.53%	7.89	0.31	8.20	42.04	57	10	50.25	TCHSLT
AAB0412_4-25	25	4	12	87041.9	87041.9	1.52%	6.32	0.29	6.61	121.17	52	9	127.78	TCHSLT
AAB0512_4-25	25	4	12	90347.3	90347.3	1.46%	5.44	0.12	5.57	177.08	80	14	182.65	TCHSLT
AAB0612_4-25	25	4	12	76130.2	76130.2	0.98%	6.67	0.16	6.83	92.13	57	10	98.96	TCHSLT
AAB0712_4-25	25	4	12	86792.1	86792.1	1.65%	8.27	0.33	8.60	237.95	86	15	246.54	TCHSLT
AAB0812_4-25	25	4	12	81005.1	81005.1	0.97%	5.85	0.40	6.26	121.66	52	9	127.92	TCHSLT
AAB0912_4-25	25	4	12	86434.1	86434.1	0.56%	4.73	0.17	4.90	133.10	97	17	138.01	TCHSLT
AAB0018_4-25	25	4	18	111426.1	111426.1	0.82%	21.25	0.26	21.52	281.29	106	14	302.81	TCHSLT
AAB0118_4-25	25	4	18	125045.6	125045.6	1.43%	22.23	0.45	22.68	281.78	68	9	304.46	TCHSLT
AAB0218_4-25	25	4	18	121160.2	121354.5	1.77%	24.37	0.26	24.63	600.01	126	17	624.65	TCHSLT
AAB0318_4-25	25	4	18	124794.5	124794.5	1.10%	18.04	0.26	18.31	264.58	90	12	282.89	TCHSLT
AAB0418_4-25	25	4	18	127574.1	127574.1	1.45%	18.64	0.58	19.22	133.86	38	5	153.08	TCHSLT
AAB0518_4-25	25	4	18	129707.5	129707.5	1.08%	20.86	0.46	21.33	136.74	60	8	158.07	TCHSLT
AAB0618_4-25	25	4	18	112404.6	112404.6	0.69%	10.57	0.16	10.73	93.51	46	6	104.25	TCHSLT
AAB0718_4-25	25	4	18	125242.6	125242.6	1.11%	16.99	0.29	17.28	200.89	76	10	218.17	TCHSLT
AAB0818_4-25	25	4	18	114826.2	114826.2	0.81%	18.51	0.38	18.89	230.76	90	12	249.65	TCHSLT
AAB0918_4-25	25	4	18	127194.5	127194.5	1.05%	18.89	0.37	19.26	124.66	60	8	143.93	TCHSLT
AAB006_4-50	50	4	6	84148.6	84148.6	0.76%	2.68	0.32	3.00	42.80	20	4	45.81	TCHSLT
AAB016_4-50	50	4	6	87490.3	87490.3	0.39%	2.86	0.21	3.08	72.63	30	6	75.71	TCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB026_4-50	50	4	6	89540.6	89540.6	0.66%	3.15	0.20	3.35	50.08	25	5	53.43	TCHSLT
AAB036_4-50	50	4	6	90177.0	90177.0	0.31%	2.68	0.25	2.93	54.97	35	7	57.91	TCHSLT
AAB046_4-50	50	4	6	98065.1	98065.1	0.67%	3.29	0.16	3.46	75.71	25	5	79.17	TCHSLT
AAB056_4-50	50	4	6	92956.9	92956.9	1.00%	3.52	0.30	3.82	73.34	30	6	77.16	TCHSLT
AAB066_4-50	50	4	6	81567.6	81567.6	0.25%	2.39	0.11	2.51	31.42	25	5	33.93	TCHSLT
AAB076_4-50	50	4	6	86198.9	86198.9	0.76%	3.12	0.21	3.33	31.43	15	3	34.76	TCHSLT
AAB086_4-50	50	4	6	86014.9	86014.9	0.25%	2.85	0.16	3.01	39.18	25	5	42.20	TCHSLT
AAB096_4-50	50	4	6	96619.5	96619.5	0.34%	2.78	0.27	3.05	26.33	20	4	29.39	TCHSLT
AAB0012_4-50	50	4	12	163283.7	163283.7	0.48%	12.69	0.41	13.10	270.90	69	12	284.01	TCHSLT
AAB0112_4-50	50	4	12	159791.0	159791.0	0.38%	9.30	0.80	10.10	239.84	70	12	249.95	TCHSLT
AAB0212_4-50	50	4	12	161820.1	161820.1	0.58%	12.56	0.49	13.06	343.66	75	13	356.72	TCHSLT
AAB0312_4-50	50	4	12	169528.0	169528.0	0.61%	12.77	0.50	13.27	244.32	70	12	257.60	TCHSLT
AAB0412_4-50	50	4	12	175960.8	175960.8	0.92%	12.30	0.76	13.06	208.26	53	9	221.32	TCHSLT
AAB0512_4-50	50	4	12	168889.0	168889.0	0.71%	12.47	0.18	12.66	521.30	121	21	533.96	TCHSLT
AAB0612_4-50	50	4	12	152325.3	152325.3	0.42%	10.20	0.17	10.37	137.71	63	11	148.09	TCHSLT
AAB0712_4-50	50	4	12	165925.4	165925.4	0.70%	9.99	0.38	10.42	209.20	52	9	219.62	TCHSLT
AAB0812_4-50	50	4	12	160293.0	160293.0	0.52%	9.58	0.41	9.99	162.80	58	10	172.80	TCHSLT
AAB0912_4-50	50	4	12	174474.2	174474.2	0.33%	11.49	0.20	11.69	128.37	57	10	140.06	TCHSLT
AAB0018_4-50	50	4	18	231769.8	231769.8	0.37%	29.23	0.51	29.74	265.11	62	8	294.85	TCHSLT
AAB0118_4-50	50	4	18	235621.4	235621.4	0.55%	28.20	1.41	29.61	462.18	124	16	491.80	TCHSLT
AAB0218_4-50	50	4	18	238989.1	242677.5	0.52%	34.23	0.66	34.89	600.02	105	14	634.91	TCHSLT
AAB0318_4-50	50	4	18	245990.5	246650.0	0.46%	34.07	0.64	34.72	600.03	158	21	634.75	TCHSLT
AAB0418_4-50	50	4	18	257540.3	257540.3	0.55%	31.94	0.50	32.45	523.08	106	14	555.53	TCHSLT
AAB0518_4-50	50	4	18	248546.3	248546.3	0.62%	27.12	0.48	27.60	244.29	60	8	271.90	TCHSLT
AAB0618_4-50	50	4	18	225994.5	225994.5	0.30%	25.16	0.47	25.64	299.11	98	13	324.75	TCHSLT
AAB0718_4-50	50	4	18	244818.7	245304.2	0.62%	36.69	0.57	37.27	600.03	110	15	637.30	TCHSLT
AAB0818_4-50	50	4	18	231458.5	231458.5	0.75%	29.75	0.43	30.19	364.92	84	11	395.11	TCHSLT
AAB0918_4-50	50	4	18	254549.2	254549.2	0.40%	24.24	0.71	24.96	304.84	82	11	329.80	TCHSLT
AAB006_6-6	6	6	6	10290.5	10290.5	0.00%	0.98	0.05	1.03	0.85	25	5	1.88	TCHSLT
AAB026_6-6	6	6	6	13547.1	13547.1	0.96%	1.10	0.09	1.19	1.26	25	5	2.45	TCHSLT
AAB036_6-6	6	6	6	15365.4	15365.4	3.22%	0.94	0.05	1.00	0.29	10	2	1.29	TCHSLT
AAB046_6-6	6	6	6	15038.8	15038.8	1.86%	1.15	0.04	1.20	0.75	15	3	1.95	TCHSLT
AAB056_6-6	6	6	6	18532.8	18532.8	2.43%	1.04	0.05	1.10	1.08	20	4	2.18	TCHSLT
AAB066_6-6	6	6	6	12674.4	12674.4	2.36%	0.66	0.05	0.71	0.81	15	3	1.52	TCHSLT
AAB076_6-6	6	6	6	17008.0	17008.0	2.27%	1.22	0.07	1.29	0.72	10	2	2.02	TCHSLT
AAB086_6-6	6	6	6	16924.5	16924.5	3.58%	1.44	0.11	1.55	1.39	15	3	2.94	TCHSLT
AAB096_6-6	6	6	6	18145.7	18145.7	1.13%	1.16	0.08	1.25	2.13	20	4	3.38	TCHSLT
AAB0012_6-6	6	6	12	21409.6	21409.6	0.87%	7.26	0.11	7.37	9.11	80	14	16.48	TCHSLT
AAB0212_6-6	6	6	12	26169.5	26169.5	0.25%	7.00	0.18	7.18	3.38	34	6	10.56	TCHSLT
AAB0312_6-6	6	6	12	29031.6	29031.6	0.05%	7.10	0.11	7.21	2.49	35	6	9.70	TCHSLT
AAB0412_6-6	6	6	12	29510.3	29510.3	1.08%	7.09	0.25	7.35	7.40	46	8	14.74	TCHSLT
AAB0512_6-6	6	6	12	31955.8	31955.8	1.17%	3.97	0.19	4.16	4.23	40	7	8.40	TCHSLT
AAB0612_6-6	6	6	12	25959.6	25959.6	1.46%	5.32	0.10	5.42	8.27	40	7	13.70	TCHSLT
AAB0712_6-6	6	6	12	30897.5	30897.5	0.85%	7.48	0.11	7.59	12.46	68	12	20.05	TCHSLT
AAB0812_6-6	6	6	12	30017.2	30017.2	0.66%	5.88	0.20	6.09	12.44	57	10	18.53	TCHSLT
AAB0912_6-6	6	6	12	34249.9	34249.9	1.11%	6.17	0.22	6.40	7.92	57	10	14.31	TCHSLT
AAB0018_6-6	6	6	18	31237.8	31237.8	0.71%	27.40	0.18	27.57	14.31	76	10	41.88	TCHSLT
AAB0218_6-6	6	6	18	35283.8	35283.8	0.44%	21.68	0.38	22.06	6.89	52	7	28.96	TCHSLT
AAB0318_6-6	6	6	18	41316.0	41316.0	0.61%	25.97	0.29	26.26	9.03	52	7	35.29	TCHSLT
AAB0418_6-6	6	6	18	43082.0	43082.0	0.53%	42.63	0.29	42.93	30.28	68	9	73.22	TCHSLT
AAB0518_6-6	6	6	18	48545.0	48545.0	1.26%	17.17	0.19	17.36	26.89	68	9	44.26	TCHSLT
AAB0618_6-6	6	6	18	35986.9	35986.9	0.00%	12.86	0.16	13.02	6.23	52	7	19.25	TCHSLT
AAB0718_6-6	6	6	18	45504.1	45504.1	0.68%	23.40	0.21	23.61	13.60	52	7	37.22	TCHSLT
AAB0818_6-6	6	6	18	47580.2	47580.2	1.39%	22.37	0.33	22.71	29.03	52	7	51.74	TCHSLT
AAB0918_6-6	6	6	18	51275.4	51275.4	0.34%	22.84	0.26	23.10	25.05	60	8	48.15	TCHSLT
AAB006_6-12	12	6	6	21549.1	21549.1	1.48%	1.64	0.05	1.70	4.86	20	4	6.55	TCHSLT
AAB016_6-12	12	6	6	22089.2	22089.2	0.00%	1.75	0.13	1.88	4.97	30	6	6.85	TCHSLT
AAB026_6-12	12	6	6	21347.0	21347.0	1.34%	1.99	0.08	2.07	8.50	15	3	10.57	TCHSLT
AAB036_6-12	12	6	6	21794.6	21794.6	0.70%	1.57	0.10	1.67	1.84	20	4	3.51	TCHSLT
AAB046_6-12	12	6	6	19725.9	19725.9	0.24%	1.67	0.17	1.84	1.83	20	4	3.67	TCHSLT
AAB056_6-12	12	6	6	21514.9	21514.9	0.86%	1.45	0.06	1.51	4.46	30	6	5.97	TCHSLT
AAB066_6-12	12	6	6	19176.2	19176.2	1.65%	1.17	0.11	1.28	1.42	20	4	2.70	TCHSLT
AAB076_6-12	12	6	6	25888.8	25888.8	2.41%	2.02	0.07	2.09	7.07	20	4	9.16	TCHSLT
AAB086_6-12	12	6	6	22304.9	22304.9	1.03%	2.12	0.13	2.26	4.85	30	6	7.11	TCHSLT
AAB096_6-12	12	6	6	25677.1	25677.1	1.41%	2.07	0.09	2.17	4.69	25	5	6.86	TCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0012_6-12	12	6	12	39555.3	39555.3	1.34%	9.14	0.16	9.31	33.59	51	9	42.90	TCHSLT
AAB0112_6-12	12	6	12	41790.8	41790.8	0.19%	7.29	0.16	7.46	25.48	57	10	32.94	TCHSLT
AAB0212_6-12	12	6	12	40807.3	40807.3	2.19%	7.43	0.34	7.77	106.93	58	10	114.70	TCHSLT
AAB0312_6-12	12	6	12	43156.8	43156.8	0.87%	6.90	0.27	7.17	58.48	69	12	65.65	TCHSLT
AAB0412_6-12	12	6	12	38325.2	38325.2	1.56%	7.24	0.22	7.46	102.84	63	11	110.31	TCHSLT
AAB0512_6-12	12	6	12	44424.3	44424.3	1.31%	7.52	0.22	7.74	12.85	46	8	20.59	TCHSLT
AAB0612_6-12	12	6	12	36354.7	36354.7	1.20%	6.82	0.19	7.01	6.75	35	6	13.75	TCHSLT
AAB0712_6-12	12	6	12	51104.2	51104.2	1.54%	8.85	0.28	9.13	75.04	46	8	84.17	TCHSLT
AAB0812_6-12	12	6	12	42754.8	42754.8	2.26%	7.46	0.36	7.82	59.42	46	8	67.25	TCHSLT
AAB0912_6-12	12	6	12	46264.7	46264.7	1.61%	8.79	0.50	9.30	32.83	40	7	42.13	TCHSLT
AAB0018_6-12	12	6	18	59163.3	59163.3	1.29%	35.41	0.23	35.65	43.59	68	9	79.24	TCHSLT
AAB0118_6-12	12	6	18	64463.0	64463.0	0.87%	56.28	0.30	56.58	61.29	82	11	117.87	TCHSLT
AAB0218_6-12	12	6	18	59363.4	59363.4	1.93%	29.77	0.64	30.42	90.45	46	6	120.87	TCHSLT
AAB0318_6-12	12	6	18	60866.6	60866.6	1.56%	21.12	0.36	21.49	49.90	38	5	71.39	TCHSLT
AAB0418_6-12	12	6	18	54615.0	54615.0	0.73%	17.79	0.26	18.06	47.29	52	7	65.35	TCHSLT
AAB0518_6-12	12	6	18	66454.3	66454.3	1.70%	29.85	0.30	30.15	77.36	68	9	107.51	TCHSLT
AAB0618_6-12	12	6	18	56482.2	56482.2	0.92%	17.45	0.23	17.68	31.59	74	10	49.27	TCHSLT
AAB0718_6-12	12	6	18	73375.1	73375.1	1.67%	31.57	0.51	32.08	204.35	98	13	236.43	TCHSLT
AAB0818_6-12	12	6	18	62120.4	62120.4	2.17%	21.67	0.57	22.25	76.92	46	6	99.17	TCHSLT
AAB0918_6-12	12	6	18	67959.3	67959.3	1.05%	26.71	0.36	27.07	47.53	82	11	74.60	TCHSLT
AAB006_6-25	25	6	6	42189.7	42189.7	1.95%	2.91	0.19	3.11	38.70	20	4	41.81	TCHSLT
AAB016_6-25	25	6	6	41775.6	41775.6	1.53%	2.63	0.54	3.18	52.97	30	6	56.14	TCHSLT
AAB026_6-25	25	6	6	44021.6	44021.6	1.67%	3.19	0.28	3.47	23.07	25	5	26.54	TCHSLT
AAB036_6-25	25	6	6	42727.2	42727.2	1.04%	4.10	0.14	4.25	28.61	20	4	32.86	TCHSLT
AAB046_6-25	25	6	6	45623.9	45623.9	1.52%	3.79	0.17	3.96	45.63	20	4	49.60	TCHSLT
AAB056_6-25	25	6	6	42767.0	42767.0	2.37%	2.60	0.21	2.83	31.82	20	4	34.65	TCHSLT
AAB066_6-25	25	6	6	40848.0	40848.0	0.89%	3.38	0.19	3.58	39.08	35	7	42.66	TCHSLT
AAB076_6-25	25	6	6	44545.4	44545.4	1.19%	2.24	0.09	2.33	31.43	25	5	33.76	TCHSLT
AAB086_6-25	25	6	6	43801.5	43801.5	2.40%	2.74	0.29	3.03	41.66	20	4	44.69	TCHSLT
AAB096_6-25	25	6	6	44826.5	44826.5	2.44%	2.68	0.11	2.79	35.75	20	4	38.55	TCHSLT
AAB0012_6-25	25	6	12	79868.1	79868.1	1.76%	14.15	0.38	14.54	229.90	69	12	244.44	TCHSLT
AAB0112_6-25	25	6	12	82960.8	82960.8	2.05%	11.25	0.57	11.82	257.12	81	14	268.95	TCHSLT
AAB0212_6-25	25	6	12	82934.4	82934.4	1.80%	14.53	0.19	14.72	167.89	52	9	182.61	TCHSLT
AAB0312_6-25	25	6	12	80635.9	80635.9	1.49%	15.56	0.26	15.82	353.89	104	18	369.71	TCHSLT
AAB0412_6-25	25	6	12	84793.4	84793.4	2.36%	15.07	0.58	15.65	173.91	46	8	189.56	TCHSLT
AAB0512_6-25	25	6	12	79405.6	79405.6	1.28%	11.76	0.28	12.04	148.08	63	11	160.12	TCHSLT
AAB0612_6-25	25	6	12	77631.7	77631.7	1.95%	11.62	0.27	11.90	261.17	69	12	273.07	TCHSLT
AAB0712_6-25	25	6	12	79786.5	79786.5	0.82%	11.42	0.16	11.59	83.29	52	9	94.88	TCHSLT
AAB0812_6-25	25	6	12	79332.4	79332.4	1.98%	10.65	0.37	11.02	257.02	86	15	268.04	TCHSLT
AAB0912_6-25	25	6	12	85763.5	85763.5	1.60%	11.35	0.40	11.75	267.58	98	17	279.34	TCHSLT
AAB0018_6-25	25	6	18	115561.7	115561.7	1.31%	33.90	1.91	35.81	307.55	76	10	343.37	TCHSLT
AAB0118_6-25	25	6	18	121164.9	121164.9	1.48%	33.30	1.21	34.51	259.69	52	7	294.20	TCHSLT
AAB0218_6-25	25	6	18	124182.2	124182.2	1.56%	51.82	1.71	53.53	428.24	106	14	481.78	TCHSLT
AAB0318_6-25	25	6	18	120755.2	120755.2	1.73%	52.40	0.69	53.09	545.79	84	11	598.90	TCHSLT
AAB0418_6-25	25	6	18	124381.6	125199.8	1.72%	41.70	0.91	42.61	600.03	87	12	642.64	TCHSLT
AAB0518_6-25	25	6	18	121140.1	121140.1	1.46%	32.45	0.67	33.12	145.40	46	6	178.53	TCHSLT
AAB0618_6-25	25	6	18	112979.4	112979.4	1.62%	34.11	0.88	34.99	273.99	68	9	308.99	TCHSLT
AAB0718_6-25	25	6	18	117963.7	117963.7	1.15%	29.06	0.50	29.56	389.20	128	17	418.77	TCHSLT
AAB0818_6-25	25	6	18	113608.0	113608.0	1.65%	26.46	0.61	27.08	317.73	84	11	344.82	TCHSLT
AAB0918_6-25	25	6	18	126529.4	126529.4	1.53%	44.02	0.44	44.47	410.05	106	14	454.53	TCHSLT
AAB006_6-50	50	6	6	76887.2	76887.2	0.55%	5.20	0.34	5.55	52.12	25	5	57.68	TCHSLT
AAB016_6-50	50	6	6	80721.5	80721.5	1.11%	4.40	0.72	5.13	82.02	25	5	87.15	TCHSLT
AAB026_6-50	50	6	6	83525.2	83525.2	1.14%	5.25	0.80	6.05	110.34	30	6	116.39	TCHSLT
AAB036_6-50	50	6	6	81294.7	81294.7	1.37%	4.69	0.66	5.35	42.27	20	4	47.63	TCHSLT
AAB046_6-50	50	6	6	84795.6	84795.6	1.56%	5.32	0.40	5.72	89.83	20	4	95.56	TCHSLT
AAB056_6-50	50	6	6	84774.6	84774.6	0.84%	5.06	0.77	5.83	137.73	30	6	143.57	TCHSLT
AAB066_6-50	50	6	6	81126.0	81126.0	0.78%	6.57	1.13	7.70	77.51	20	4	85.21	TCHSLT
AAB076_6-50	50	6	6	83681.0	83681.0	0.68%	4.54	0.67	5.21	56.18	20	4	61.39	TCHSLT
AAB086_6-50	50	6	6	80386.5	80386.5	1.28%	4.41	0.57	4.99	84.93	20	4	89.91	TCHSLT
AAB096_6-50	50	6	6	81086.9	81086.9	1.21%	4.85	0.44	5.30	93.37	25	5	98.67	TCHSLT
AAB0012_6-50	50	6	12	149262.6	149262.6	1.01%	17.25	0.86	18.12	186.00	52	9	204.13	TCHSLT
AAB0112_6-50	50	6	12	151780.3	151780.3	0.86%	16.63	2.10	18.73	255.44	58	10	274.17	TCHSLT
AAB0212_6-50	50	6	12	156812.2	156812.2	0.90%	19.56	1.09	20.66	457.54	87	15	478.20	TCHSLT
AAB0312_6-50	50	6	12	154900.2	154900.2	0.81%	20.01	0.43	20.45	296.40	76	13	316.86	TCHSLT
AAB0412_6-50	50	6	12	163474.4	163474.4	1.43%	22.53	1.04	23.57	353.03	64	11	376.60	TCHSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0512_6-50	50	6	12	160789.7	160789.7	1.03%	21.54	0.49	22.03	331.02	69	12	353.05	TCHSLT
AAB0612_6-50	50	6	12	151874.1	151874.1	1.21%	21.22	2.24	23.47	412.73	64	11	436.20	TCHSLT
AAB0712_6-50	50	6	12	158623.4	158623.4	0.51%	15.53	0.59	16.13	226.32	69	12	242.45	TCHSLT
AAB0812_6-50	50	6	12	146182.8	146182.8	0.68%	17.15	1.35	18.50	204.31	64	11	222.82	TCHSLT
AAB0912_6-50	50	6	12	154670.3	154670.3	0.96%	17.60	0.56	18.16	406.28	87	15	424.45	TCHSLT
AAB0018_6-50	50	6	18	219235.8	219235.8	0.74%	48.53	1.22	49.76	346.23	76	10	396.00	TCHSLT
AAB0118_6-50	50	6	18	222600.3	222600.3	0.87%	50.98	2.16	53.14	492.58	108	14	545.74	TCHSLT
AAB0218_6-50	50	6	18	228127.3	228127.3	0.81%	47.06	3.57	50.64	533.38	98	13	584.02	TCHSLT
AAB0318_6-50	50	6	18	229049.1	229351.2	0.85%	55.39	2.48	57.88	600.04	77	10	657.92	TCHSLT
AAB0418_6-50	50	6	18	240498.2	241166.9	1.01%	62.19	1.89	64.09	600.02	80	11	664.12	TCHSLT
AAB0518_6-50	50	6	18	230356.4	230417.5	0.95%	58.29	0.93	59.23	600.03	95	13	659.27	TCHSLT
AAB0618_6-50	50	6	18	224250.5	224739.7	1.16%	66.00	1.27	67.29	600.04	67	9	667.33	TCHSLT
AAB0718_6-50	50	6	18	232302.1	232302.1	0.51%	41.58	0.74	42.34	476.10	98	13	518.44	TCHSLT
AAB0818_6-50	50	6	18	218851.4	218851.4	0.88%	43.27	2.07	45.35	434.07	76	10	479.43	TCHSLT
AAB0918_6-50	50	6	18	228149.4	228149.4	1.12%	61.03	0.61	61.65	487.96	68	9	549.62	TCHSLT
ABA006_2-6	6	2	6	8175.8	8175.8	0.02%	0.34	0.02	0.36	0.86	30	6	1.22	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%	0.28	0.02	0.30	0.12	10	2	0.42	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%	0.28	0.03	0.31	0.13	10	2	0.43	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%	0.28	0.02	0.30	0.17	15	3	0.47	TCLSHT
ABA046_2-6	6	2	6	7917.3	7917.3	0.00%	0.30	0.02	0.32	0.26	10	2	0.59	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%	0.19	0.02	0.21	0.14	15	3	0.35	TCLSHT
ABA066_2-6	6	2	6	8054.2	8054.2	0.00%	0.21	0.02	0.24	0.29	20	4	0.53	TCLSHT
ABA076_2-6	6	2	6	9140.0	9140.0	0.12%	0.28	0.02	0.30	0.27	15	3	0.57	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%	0.28	0.01	0.29	0.11	10	2	0.41	TCLSHT
ABA096_2-6	6	2	6	7120.6	7120.6	0.23%	0.19	0.01	0.21	0.10	15	3	0.31	TCLSHT
ABA0012_2-6	6	2	12	15598.3	15598.3	0.00%	1.00	0.02	1.03	2.75	40	7	3.78	TCLSHT
ABA0112_2-6	6	2	12	13419.7	13419.7	0.00%	0.88	0.02	0.90	0.99	28	5	1.90	TCLSHT
ABA0212_2-6	6	2	12	14728.6	14728.6	0.03%	1.14	0.03	1.17	2.49	46	8	3.66	TCLSHT
ABA0412_2-6	6	2	12	13871.4	13871.4	0.28%	1.95	0.05	2.00	2.65	29	5	4.65	TCLSHT
ABA0512_2-6	6	2	12	17403.2	17403.2	0.02%	0.63	0.03	0.66	0.70	23	4	1.36	TCLSHT
ABA0612_2-6	6	2	12	14949.4	14949.4	0.03%	0.60	0.04	0.64	0.76	23	4	1.40	TCLSHT
ABA0712_2-6	6	2	12	16617.9	16617.9	0.00%	1.10	0.03	1.13	0.88	29	5	2.01	TCLSHT
ABA0812_2-6	6	2	12	14158.1	14158.1	0.00%	0.98	0.03	1.01	0.81	23	4	1.82	TCLSHT
ABA0912_2-6	6	2	12	16124.5	16124.5	0.00%	0.58	0.02	0.60	0.78	28	5	1.39	TCLSHT
ABA0018_2-6	6	2	18	21811.3	21811.3	0.28%	3.30	0.03	3.33	12.77	68	9	16.10	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%	2.06	0.04	2.10	0.83	30	4	2.93	TCLSHT
ABA0218_2-6	6	2	18	22474.3	22474.3	0.02%	2.40	0.05	2.45	1.76	30	4	4.21	TCLSHT
ABA0418_2-6	6	2	18	20233.6	20233.6	0.29%	4.09	0.03	4.12	3.68	30	4	7.80	TCLSHT
ABA0518_2-6	6	2	18	25067.0	25067.0	0.05%	1.50	0.04	1.53	2.03	36	5	3.57	TCLSHT
ABA0618_2-6	6	2	18	22805.2	22805.2	0.00%	2.26	0.03	2.29	2.86	52	7	5.15	TCLSHT
ABA0718_2-6	6	2	18	24393.0	24393.0	0.08%	3.85	0.03	3.89	2.62	22	3	6.50	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%	2.24	0.04	2.27	2.54	38	5	4.82	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%	2.12	0.03	2.15	1.70	44	6	3.86	TCLSHT
ABA006_2-12	12	2	6	12675.6	12675.6	0.00%	0.34	0.02	0.37	0.26	15	3	0.62	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%	0.44	0.02	0.47	0.24	10	2	0.70	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%	0.48	0.02	0.51	0.23	15	3	0.74	TCLSHT
ABA036_2-12	12	2	6	16367.5	16367.5	0.16%	0.43	0.03	0.46	0.29	15	3	0.74	TCLSHT
ABA046_2-12	12	2	6	14225.0	14225.0	0.17%	0.45	0.02	0.47	0.16	10	2	0.63	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%	0.37	0.02	0.39	0.28	10	2	0.66	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%	0.36	0.02	0.38	0.28	15	3	0.67	TCLSHT
ABA076_2-12	12	2	6	15431.8	15431.8	0.18%	0.33	0.02	0.35	0.18	10	2	0.54	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%	0.39	0.03	0.42	0.38	15	3	0.80	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%	0.54	0.02	0.56	0.49	15	3	1.06	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%	0.82	0.03	0.86	1.34	40	7	2.20	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%	1.21	0.04	1.26	0.88	23	4	2.15	TCLSHT
ABA0212_2-12	12	2	12	27212.2	27212.2	0.08%	1.79	0.03	1.82	4.10	51	9	5.92	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%	1.52	0.04	1.56	2.23	51	9	3.79	TCLSHT
ABA0412_2-12	12	2	12	28318.1	28318.1	0.02%	1.51	0.03	1.54	2.60	40	7	4.14	TCLSHT
ABA0512_2-12	12	2	12	32081.3	32081.3	0.00%	1.20	0.04	1.23	0.96	23	4	2.20	TCLSHT
ABA0612_2-12	12	2	12	27236.8	27236.8	0.00%	1.01	0.05	1.06	0.79	23	4	1.85	TCLSHT
ABA0712_2-12	12	2	12	30388.6	30388.6	0.01%	1.16	0.03	1.20	2.28	34	6	3.48	TCLSHT
ABA0812_2-12	12	2	12	26674.7	26674.7	0.00%	1.38	0.05	1.43	3.45	62	11	4.89	TCLSHT
ABA0912_2-12	12	2	12	31084.9	31084.9	0.10%	2.29	0.05	2.34	11.07	51	9	13.41	TCLSHT
ABA0118_2-12	12	2	18	40447.4	40447.4	0.00%	3.89	0.06	3.95	6.37	66	9	10.33	TCLSHT
ABA0218_2-12	12	2	18	41715.6	41715.6	0.05%	5.28	0.06	5.35	12.58	74	10	17.93	TCLSHT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0318_2-12	12	2	18	46256.9	46256.9	0.00%	4.10	0.05	4.15	7.68	50	7	11.83	TCLSHT
ABA0418_2-12	12	2	18	44175.1	44175.1	0.01%	2.50	0.04	2.55	6.22	60	8	8.77	TCLSHT
ABA0518_2-12	12	2	18	47321.1	47321.1	0.00%	2.52	0.07	2.59	2.39	22	3	4.98	TCLSHT
ABA0618_2-12	12	2	18	40648.3	40648.3	0.06%	3.46	0.05	3.51	2.96	30	4	6.48	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%	2.18	0.06	2.24	3.06	38	5	5.30	TCLSHT
ABA0818_2-12	12	2	18	41330.2	41330.2	0.03%	3.22	0.04	3.26	8.10	60	8	11.37	TCLSHT
ABA0918_2-12	12	2	18	47360.7	47360.7	0.25%	4.79	0.04	4.83	32.33	52	7	37.16	TCLSHT
ABA006_2-25	25	2	6	29195.4	29195.4	0.01%	0.50	0.02	0.52	0.45	15	3	0.97	TCLSHT
ABA016_2-25	25	2	6	29911.2	29911.2	0.07%	0.74	0.03	0.78	0.93	20	4	1.71	TCLSHT
ABA026_2-25	25	2	6	28592.1	28592.1	0.05%	0.85	0.02	0.87	0.72	10	2	1.59	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%	0.63	0.04	0.67	0.31	10	2	0.98	TCLSHT
ABA046_2-25	25	2	6	31445.3	31445.3	0.11%	0.99	0.02	1.01	0.61	10	2	1.62	TCLSHT
ABA056_2-25	25	2	6	31535.0	31535.0	0.08%	0.91	0.03	0.95	1.10	15	3	2.05	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%	0.43	0.02	0.45	0.27	15	3	0.72	TCLSHT
ABA076_2-25	25	2	6	31332.2	31332.2	0.05%	0.74	0.04	0.77	0.68	10	2	1.46	TCLSHT
ABA086_2-25	25	2	6	32154.5	32154.5	0.01%	0.75	0.06	0.81	0.85	15	3	1.66	TCLSHT
ABA096_2-25	25	2	6	33235.3	33235.3	0.05%	0.84	0.04	0.87	0.58	10	2	1.45	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%	1.65	0.05	1.70	2.99	29	5	4.69	TCLSHT
ABA0112_2-25	25	2	12	60926.9	60926.9	0.00%	2.01	0.05	2.05	6.88	51	9	8.94	TCLSHT
ABA0212_2-25	25	2	12	56234.0	56234.0	0.00%	3.01	0.06	3.08	4.66	40	7	7.74	TCLSHT
ABA0312_2-25	25	2	12	59199.2	59199.2	0.02%	2.27	0.04	2.31	10.93	40	7	13.24	TCLSHT
ABA0412_2-25	25	2	12	59677.1	59677.1	0.00%	2.41	0.04	2.45	2.61	23	4	5.06	TCLSHT
ABA0512_2-25	25	2	12	65013.4	65013.4	0.06%	3.40	0.04	3.44	12.74	40	7	16.19	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%	0.83	0.04	0.88	0.83	17	3	1.71	TCLSHT
ABA0712_2-25	25	2	12	62790.6	62790.6	0.06%	2.83	0.04	2.87	8.73	34	6	11.60	TCLSHT
ABA0812_2-25	25	2	12	62879.1	62879.1	0.02%	2.90	0.06	2.97	31.12	69	12	34.08	TCLSHT
ABA0912_2-25	25	2	12	63986.1	63986.1	0.01%	2.46	0.04	2.50	8.38	57	10	10.89	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%	2.58	0.09	2.68	1.86	30	4	4.54	TCLSHT
ABA0118_2-25	25	2	18	88585.5	88585.5	0.00%	4.46	0.10	4.57	7.01	30	4	11.58	TCLSHT
ABA0218_2-25	25	2	18	83261.7	83261.7	0.04%	5.71	0.06	5.77	16.94	52	7	22.72	TCLSHT
ABA0318_2-25	25	2	18	91360.6	91360.6	0.03%	3.66	0.09	3.75	16.63	30	4	20.39	TCLSHT
ABA0418_2-25	25	2	18	90592.4	90592.4	0.00%	5.48	0.10	5.58	18.04	76	10	23.63	TCLSHT
ABA0518_2-25	25	2	18	95140.1	95140.1	0.13%	6.90	0.08	6.98	71.13	44	6	78.10	TCLSHT
ABA0618_2-25	25	2	18	83544.5	83544.5	0.00%	1.82	0.10	1.92	2.54	30	4	4.47	TCLSHT
ABA0718_2-25	25	2	18	92162.0	92162.0	0.02%	7.33	0.07	7.41	9.80	38	5	17.21	TCLSHT
ABA0818_2-25	25	2	18	91526.2	91526.2	0.07%	6.33	0.06	6.40	41.89	30	4	48.29	TCLSHT
ABA0918_2-25	25	2	18	93150.7	93150.7	0.01%	4.39	0.11	4.50	10.02	46	6	14.52	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%	1.02	0.03	1.05	0.86	15	3	1.91	TCLSHT
ABA016_2-50	50	2	6	60305.6	60305.6	0.01%	1.04	0.04	1.08	0.79	15	3	1.87	TCLSHT
ABA026_2-50	50	2	6	56156.5	56156.5	0.03%	1.58	0.04	1.62	2.97	15	3	4.59	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%	1.20	0.03	1.23	1.60	20	4	2.83	TCLSHT
ABA046_2-50	50	2	6	60896.5	60896.5	0.02%	1.52	0.06	1.58	2.53	20	4	4.11	TCLSHT
ABA056_2-50	50	2	6	59359.7	59359.7	0.02%	1.30	0.03	1.33	1.35	20	4	2.68	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%	1.23	0.08	1.31	1.19	15	3	2.49	TCLSHT
ABA076_2-50	50	2	6	58958.3	58958.3	0.00%	1.32	0.07	1.39	1.44	15	3	2.84	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%	1.35	0.04	1.39	1.23	15	3	2.62	TCLSHT
ABA096_2-50	50	2	6	60669.3	60669.3	0.01%	1.54	0.03	1.54	1.22	15	3	2.76	TCLSHT
ABA0012_2-50	50	2	12	117314.5	117314.5	0.00%	2.15	0.18	2.34	6.87	46	8	9.21	TCLSHT
ABA0112_2-50	50	2	12	119907.3	119907.3	0.02%	3.32	0.09	3.42	4.48	29	5	7.90	TCLSHT
ABA0212_2-50	50	2	12	114057.6	114057.6	0.00%	4.22	0.08	4.31	9.45	34	6	13.76	TCLSHT
ABA0312_2-50	50	2	12	119931.1	119931.1	0.00%	4.24	0.09	4.34	11.20	40	7	15.54	TCLSHT
ABA0412_2-50	50	2	12	122237.4	122237.4	0.02%	4.90	0.06	4.97	19.78	17	3	24.76	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%	2.40	0.14	2.55	2.53	17	3	5.08	TCLSHT
ABA0612_2-50	50	2	12	113641.0	113641.0	0.00%	2.92	0.13	3.05	3.94	34	6	7.00	TCLSHT
ABA0712_2-50	50	2	12	114716.8	114716.8	0.00%	4.27	0.13	4.41	26.95	51	9	31.35	TCLSHT
ABA0812_2-50	50	2	12	115424.2	115424.2	0.01%	3.96	0.06	4.03	7.02	17	3	11.06	TCLSHT
ABA0912_2-50	50	2	12	122425.8	122425.8	0.00%	3.30	0.11	3.41	5.50	29	5	8.91	TCLSHT
ABA0018_2-50	50	2	18	175783.6	175783.6	0.00%	3.81	0.14	3.95	5.21	30	4	9.16	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%	4.05	0.16	4.22	5.21	30	4	9.43	TCLSHT
ABA0218_2-50	50	2	18	169746.4	169746.4	0.01%	8.59	0.26	8.85	13.02	22	3	21.88	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%	4.90	0.16	5.07	12.79	52	7	17.86	TCLSHT
ABA0418_2-50	50	2	18	182051.2	182051.2	0.07%	12.39	0.43	12.83	104.10	30	4	116.92	TCLSHT
ABA0518_2-50	50	2	18	181078.3	181078.3	0.00%	5.70	0.12	5.83	26.87	36	5	32.69	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%	5.68	0.09	5.78	4.77	22	3	10.55	TCLSHT
ABA0718_2-50	50	2	18	172463.7	172463.7	0.00%	5.57	0.12	5.69	8.07	22	3	13.76	TCLSHT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0818_2-50	50	2	18	173606.9	173606.9	0.02%	7.36	0.13	7.50	38.73	68	9	46.23	TCLSHT
ABA0918_2-50	50	2	18	182986.3	182986.3	0.02%	9.47	0.12	9.59	25.58	38	5	35.18	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%	0.42	0.04	0.47	0.31	15	3	0.78	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%	0.57	0.05	0.62	1.07	20	4	1.69	TCLSHT
ABA026_4-6	6	4	6	7334.0	7334.0	0.00%	0.46	0.03	0.49	0.40	15	3	0.90	TCLSHT
ABA036_4-6	6	4	6	6700.2	6700.2	0.00%	0.61	0.03	0.64	0.43	20	4	1.08	TCLSHT
ABA046_4-6	6	4	6	5570.7	5570.7	0.31%	0.31	0.03	0.34	0.30	15	3	0.64	TCLSHT
ABA056_4-6	6	4	6	7908.4	7908.4	0.01%	0.84	0.04	0.88	1.78	20	4	2.67	TCLSHT
ABA066_4-6	6	4	6	6367.1	6367.1	0.00%	0.55	0.02	0.57	0.40	15	3	0.98	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%	0.40	0.02	0.43	0.12	10	2	0.55	TCLSHT
ABA086_4-6	6	4	6	5864.3	5864.3	0.09%	0.55	0.02	0.58	0.21	10	2	0.79	TCLSHT
ABA096_4-6	6	4	6	8570.0	8570.0	0.21%	0.51	0.03	0.53	0.51	15	3	1.05	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%	1.32	0.04	1.36	0.64	23	4	2.00	TCLSHT
ABA0112_4-6	6	4	12	15268.3	15268.3	0.00%	2.84	0.04	2.88	7.18	51	9	10.06	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%	2.14	0.08	2.22	1.63	29	5	3.86	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%	2.35	0.05	2.40	1.58	34	6	3.98	TCLSHT
ABA0412_4-6	6	4	12	12864.5	12864.5	0.00%	2.35	0.11	2.47	11.36	40	7	13.82	TCLSHT
ABA0512_4-6	6	4	12	15827.1	15827.1	0.07%	2.77	0.06	2.83	11.64	51	9	14.47	TCLSHT
ABA0612_4-6	6	4	12	12744.8	12744.8	0.00%	2.52	0.04	2.57	1.14	34	6	3.70	TCLSHT
ABA0712_4-6	6	4	12	14689.6	14689.6	0.03%	2.10	0.05	2.14	1.46	29	5	3.61	TCLSHT
ABA0812_4-6	6	4	12	12366.3	12366.3	0.04%	2.47	0.06	2.54	2.38	34	6	4.92	TCLSHT
ABA0912_4-6	6	4	12	14845.8	14845.8	0.00%	2.89	0.04	2.92	0.91	28	5	3.83	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%	4.53	0.08	4.61	4.55	52	7	9.16	TCLSHT
ABA0118_4-6	6	4	18	21740.0	21740.0	0.04%	8.98	0.12	9.10	15.39	82	11	24.50	TCLSHT
ABA0218_4-6	6	4	18	21432.5	21432.5	0.00%	5.19	0.10	5.28	3.79	38	5	9.07	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%	5.05	0.12	5.17	3.86	44	6	9.03	TCLSHT
ABA0418_4-6	6	4	18	19933.7	19933.7	0.00%	4.69	0.07	4.76	7.40	44	6	12.16	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.10%	7.48	0.10	7.59	17.49	46	6	25.07	TCLSHT
ABA0618_4-6	6	4	18	19782.0	19782.0	0.08%	8.83	0.06	8.90	5.12	44	6	14.01	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%	5.05	0.06	5.11	2.47	38	5	7.58	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%	4.82	0.06	4.88	2.86	36	5	7.75	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%	5.58	0.06	5.64	1.63	22	3	7.28	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%	0.84	0.03	0.87	0.57	10	2	1.44	TCLSHT
ABA016_4-12	12	4	6	15442.2	15442.2	0.02%	1.49	0.04	1.53	2.88	20	4	4.42	TCLSHT
ABA026_4-12	12	4	6	13171.1	13171.1	0.10%	0.55	0.02	0.58	0.51	15	3	1.09	TCLSHT
ABA036_4-12	12	4	6	12358.8	12358.8	0.15%	0.89	0.04	0.93	1.01	20	4	1.94	TCLSHT
ABA046_4-12	12	4	6	14422.7	14422.7	0.32%	0.78	0.04	0.82	0.63	10	2	1.45	TCLSHT
ABA056_4-12	12	4	6	14184.0	14184.0	0.01%	0.74	0.03	0.78	1.19	15	3	1.96	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%	0.80	0.02	0.82	0.21	10	2	1.04	TCLSHT
ABA076_4-12	12	4	6	12500.9	12500.9	0.16%	0.82	0.04	0.86	0.60	10	2	1.46	TCLSHT
ABA086_4-12	12	4	6	14701.7	14701.7	0.01%	0.78	0.04	0.82	0.66	15	3	1.48	TCLSHT
ABA096_4-12	12	4	6	13311.0	13311.0	0.30%	0.95	0.04	0.99	1.61	20	4	2.60	TCLSHT
ABA0012_4-12	12	4	12	24781.4	24781.4	0.10%	2.89	0.10	2.99	7.62	29	5	10.61	TCLSHT
ABA0112_4-12	12	4	12	28679.1	28679.1	0.25%	5.84	0.09	5.94	21.59	40	7	27.53	TCLSHT
ABA0212_4-12	12	4	12	26526.1	26526.1	0.00%	3.22	0.06	3.28	2.41	17	3	5.69	TCLSHT
ABA0312_4-12	12	4	12	25463.3	25463.3	0.00%	2.69	0.08	2.77	4.70	39	7	7.47	TCLSHT
ABA0412_4-12	12	4	12	27368.3	27368.3	0.00%	3.64	0.08	3.72	4.37	34	6	8.09	TCLSHT
ABA0512_4-12	12	4	12	27924.4	27924.4	0.00%	2.28	0.08	2.36	4.25	23	4	6.61	TCLSHT
ABA0612_4-12	12	4	12	24615.2	24615.2	0.00%	1.36	0.06	1.42	2.18	34	6	3.60	TCLSHT
ABA0712_4-12	12	4	12	26367.9	26367.9	0.05%	3.21	0.09	3.30	9.96	57	10	13.26	TCLSHT
ABA0812_4-12	12	4	12	28158.7	28158.7	0.06%	3.67	0.06	3.74	3.72	34	6	7.46	TCLSHT
ABA0912_4-12	12	4	12	28645.8	28645.8	0.19%	4.75	0.10	4.85	28.60	57	10	33.45	TCLSHT
ABA0018_4-12	12	4	18	38450.8	38450.8	0.23%	7.05	0.10	7.16	50.46	52	7	57.62	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.27%	14.88	0.13	15.01	50.33	30	4	65.35	TCLSHT
ABA0218_4-12	12	4	18	39456.7	39456.7	0.01%	5.39	0.10	5.49	9.24	30	4	14.73	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.01%	8.94	0.13	9.07	17.83	52	7	26.90	TCLSHT
ABA0418_4-12	12	4	18	40766.3	40766.3	0.00%	5.40	0.12	5.52	12.59	38	5	18.11	TCLSHT
ABA0518_4-12	12	4	18	41136.5	41136.5	0.03%	5.78	0.27	6.06	14.60	38	5	20.66	TCLSHT
ABA0618_4-12	12	4	18	37165.8	37165.8	0.02%	5.52	0.11	5.63	3.19	30	4	8.83	TCLSHT
ABA0718_4-12	12	4	18	41273.5	41273.5	0.09%	6.06	0.16	6.22	23.43	38	5	29.66	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%	7.12	0.11	7.23	5.49	22	3	12.72	TCLSHT
ABA0918_4-12	12	4	18	41710.6	41710.6	0.25%	8.26	0.10	8.36	63.05	44	6	71.41	TCLSHT
ABA006_4-25	25	4	6	25601.1	25601.1	0.01%	1.37	0.07	1.44	1.40	15	3	2.85	TCLSHT
ABA016_4-25	25	4	6	29509.3	29509.3	0.04%	1.32	0.06	1.38	1.91	20	4	3.29	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%	1.57	0.05	1.62	2.48	15	3	4.10	TCLSHT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA036_4-25	25	4	6	26038.2	26038.2	0.02%	1.40	0.08	1.48	4.48	30	6	5.97	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%	0.84	0.04	0.88	0.72	15	3	1.59	TCLSHT
ABA056_4-25	25	4	6	30245.6	30245.6	0.26%	1.35	0.04	1.39	2.34	15	3	3.72	TCLSHT
ABA066_4-25	25	4	6	25377.4	25377.4	0.00%	1.01	0.03	1.05	0.49	15	3	1.54	TCLSHT
ABA076_4-25	25	4	6	27077.3	27077.3	0.03%	1.53	0.04	1.57	1.89	10	2	3.46	TCLSHT
ABA086_4-25	25	4	6	26264.8	26264.8	0.01%	1.12	0.06	1.19	0.98	20	4	2.16	TCLSHT
ABA096_4-25	25	4	6	27967.8	27967.8	0.03%	1.84	0.03	1.88	0.93	10	2	2.81	TCLSHT
ABA0012_4-25	25	4	12	53759.3	53759.3	0.04%	6.32	0.14	6.46	36.88	57	10	43.34	TCLSHT
ABA0112_4-25	25	4	12	56367.4	56367.4	0.00%	3.46	0.10	3.56	8.74	40	7	12.30	TCLSHT
ABA0212_4-25	25	4	12	53342.4	53342.4	0.07%	4.66	0.14	4.79	46.42	57	10	51.22	TCLSHT
ABA0312_4-25	25	4	12	54130.6	54130.6	0.03%	3.75	0.24	3.99	12.90	34	6	16.89	TCLSHT
ABA0412_4-25	25	4	12	54964.8	54964.8	0.00%	2.77	0.12	2.89	5.26	46	8	8.16	TCLSHT
ABA0512_4-25	25	4	12	57166.9	57166.9	0.07%	3.18	0.09	3.27	5.19	29	5	8.46	TCLSHT
ABA0612_4-25	25	4	12	50712.9	50712.9	0.00%	2.11	0.07	2.18	3.07	23	4	5.25	TCLSHT
ABA0712_4-25	25	4	12	55593.0	55593.0	0.08%	5.59	0.08	5.68	73.49	57	10	79.17	TCLSHT
ABA0812_4-25	25	4	12	54116.9	54116.9	0.00%	3.86	0.14	4.00	10.19	29	5	14.19	TCLSHT
ABA0912_4-25	25	4	12	54977.0	54977.0	0.12%	6.00	0.09	6.09	44.61	29	5	50.70	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.05%	9.53	0.21	9.74	31.61	30	4	41.35	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%	8.49	0.11	8.60	21.88	52	7	30.49	TCLSHT
ABA0218_4-25	25	4	18	80986.9	80986.9	0.07%	7.61	0.14	7.75	75.24	46	6	82.99	TCLSHT
ABA0318_4-25	25	4	18	80507.0	80507.0	0.05%	10.31	0.15	10.46	36.39	60	8	46.85	TCLSHT
ABA0418_4-25	25	4	18	83338.5	83338.5	0.00%	3.26	0.09	3.36	4.67	30	4	8.04	TCLSHT
ABA0518_4-25	25	4	18	84440.0	84440.0	0.05%	11.09	0.30	11.39	42.52	52	7	53.92	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%	5.72	0.13	5.86	11.09	58	8	16.96	TCLSHT
ABA0718_4-25	25	4	18	82751.8	82751.8	0.15%	16.29	0.17	16.46	92.82	30	4	109.29	TCLSHT
ABA0818_4-25	25	4	18	78529.0	78529.0	0.01%	9.09	0.12	9.22	9.45	22	3	18.67	TCLSHT
ABA0918_4-25	25	4	18	82442.2	82442.2	0.07%	8.37	0.16	8.53	68.06	44	6	76.59	TCLSHT
ABA006_4-50	50	4	6	54644.8	54644.8	0.01%	2.08	0.11	2.19	2.16	20	4	4.36	TCLSHT
ABA016_4-50	50	4	6	55420.1	55420.1	0.03%	2.13	0.07	2.20	2.66	25	5	4.86	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%	1.95	0.11	2.07	1.38	10	2	3.45	TCLSHT
ABA036_4-50	50	4	6	55307.1	55307.1	0.08%	2.71	0.07	2.78	8.34	10	2	11.12	TCLSHT
ABA046_4-50	50	4	6	56928.3	56928.3	0.02%	2.97	0.08	3.05	5.42	15	3	8.47	TCLSHT
ABA056_4-50	50	4	6	57381.9	57381.9	0.01%	1.47	0.09	1.56	1.69	15	3	3.25	TCLSHT
ABA066_4-50	50	4	6	52908.3	52908.3	0.07%	1.68	0.08	1.76	4.03	20	4	5.79	TCLSHT
ABA076_4-50	50	4	6	51691.1	51691.1	0.02%	1.98	0.09	2.07	3.80	20	4	5.88	TCLSHT
ABA086_4-50	50	4	6	52928.7	52928.7	0.02%	1.83	0.12	1.95	1.86	10	2	3.82	TCLSHT
ABA096_4-50	50	4	6	60173.4	60173.4	0.01%	2.05	0.10	2.16	3.23	20	4	5.39	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.02%	6.59	0.34	6.93	50.82	29	5	57.75	TCLSHT
ABA0112_4-50	50	4	12	108464.7	108464.7	0.00%	4.74	0.12	4.86	8.36	34	6	13.23	TCLSHT
ABA0212_4-50	50	4	12	108034.2	108034.2	0.02%	7.10	0.15	7.26	19.94	46	8	27.20	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.02%	7.87	0.31	8.18	20.36	34	6	28.55	TCLSHT
ABA0412_4-50	50	4	12	109696.5	109696.5	0.04%	6.50	0.19	6.70	38.24	34	6	44.94	TCLSHT
ABA0512_4-50	50	4	12	112015.9	112015.9	0.00%	4.38	0.10	4.49	4.76	23	4	9.25	TCLSHT
ABA0612_4-50	50	4	12	104015.5	104015.5	0.00%	3.34	0.34	3.68	3.85	23	4	7.54	TCLSHT
ABA0712_4-50	50	4	12	106632.7	106632.7	0.04%	8.88	0.18	9.06	76.22	46	8	85.28	TCLSHT
ABA0812_4-50	50	4	12	106511.9	106511.9	0.00%	3.40	0.13	3.53	6.62	40	7	10.15	TCLSHT
ABA0912_4-50	50	4	12	114383.6	114383.6	0.00%	6.10	0.40	6.50	24.17	40	7	30.68	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%	15.47	0.31	15.78	34.32	44	6	50.11	TCLSHT
ABA0118_4-50	50	4	18	161838.8	161838.8	0.02%	10.77	0.45	11.22	23.29	30	4	34.51	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%	12.01	0.24	12.26	32.45	30	4	44.72	TCLSHT
ABA0318_4-50	50	4	18	163382.9	163382.9	0.05%	19.34	0.21	19.55	47.70	30	4	67.26	TCLSHT
ABA0418_4-50	50	4	18	166579.3	166579.3	0.05%	17.07	0.32	17.40	90.38	30	4	107.79	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%	8.64	0.26	8.90	26.23	60	8	35.13	TCLSHT
ABA0618_4-50	50	4	18	156358.4	156358.4	0.00%	8.75	0.36	9.12	23.87	60	8	32.99	TCLSHT
ABA0718_4-50	50	4	18	161773.6	161773.6	0.05%	21.31	0.33	21.65	87.62	38	5	109.28	TCLSHT
ABA0818_4-50	50	4	18	157355.9	157355.9	0.00%	6.29	0.18	6.47	16.77	52	7	23.25	TCLSHT
ABA0918_4-50	50	4	18	168535.2	168535.2	0.01%	10.77	0.30	11.08	34.94	60	8	46.03	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%	0.71	0.05	0.76	0.16	10	2	0.91	TCLSHT
ABA016_6-6	6	6	6	7316.6	7316.6	0.24%	1.63	0.09	1.72	1.33	20	4	3.05	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%	0.76	0.06	0.81	0.38	20	4	1.19	TCLSHT
ABA036_6-6	6	6	6	7413.1	7413.1	0.00%	0.77	0.04	0.81	0.30	15	3	1.11	TCLSHT
ABA046_6-6	6	6	6	8167.0	8167.0	0.15%	1.43	0.06	1.49	0.65	15	3	2.14	TCLSHT
ABA056_6-6	6	6	6	8037.9	8037.9	0.00%	1.19	0.04	1.23	0.89	20	4	2.12	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%	0.69	0.05	0.75	0.50	20	4	1.25	TCLSHT
ABA076_6-6	6	6	6	7779.2	7779.2	0.06%	1.41	0.05	1.46	0.49	15	3	1.95	TCLSHT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA086_6-6	6	6	6	6744.1	6744.1	0.43%	1.23	0.05	1.28	0.42	15	3	1.71	TCLSHT
ABA096_6-6	6	6	6	7551.8	7551.8	0.00%	1.25	0.06	1.32	0.80	20	4	2.12	TCLSHT
ABA0012_6-6	6	6	12	12141.4	12141.4	0.04%	1.72	0.06	1.78	0.69	23	4	2.47	TCLSHT
ABA0112_6-6	6	6	12	14293.3	14293.3	0.00%	4.93	0.23	5.17	4.87	40	7	10.04	TCLSHT
ABA0212_6-6	6	6	12	14330.1	14330.1	0.00%	7.33	0.18	7.51	2.87	34	6	10.38	TCLSHT
ABA0312_6-6	6	6	12	14837.7	14837.7	0.00%	4.75	0.07	4.83	2.96	40	7	7.79	TCLSHT
ABA0412_6-6	6	6	12	15055.7	15055.7	0.07%	6.43	0.32	6.75	4.17	34	6	10.92	TCLSHT
ABA0512_6-6	6	6	12	14737.7	14737.7	0.00%	2.95	0.12	3.07	2.22	23	4	5.29	TCLSHT
ABA0612_6-6	6	6	12	12767.0	12767.0	0.00%	3.31	0.07	3.38	3.60	34	6	6.98	TCLSHT
ABA0712_6-6	6	6	12	15291.9	15291.9	0.00%	5.90	0.12	6.02	2.68	40	7	8.71	TCLSHT
ABA0812_6-6	6	6	12	12626.4	12626.4	0.07%	6.52	0.10	6.62	2.72	29	5	9.34	TCLSHT
ABA0912_6-6	6	6	12	14371.3	14371.3	0.23%	5.52	0.16	5.68	11.79	52	9	17.47	TCLSHT
ABA0018_6-6	6	6	18	17952.6	17952.6	0.01%	5.50	0.14	5.64	1.36	38	5	7.00	TCLSHT
ABA0218_6-6	6	6	18	20073.2	20073.2	0.00%	12.17	0.14	12.31	5.80	60	8	18.12	TCLSHT
ABA0318_6-6	6	6	18	20680.1	20680.1	0.05%	11.38	0.15	11.53	4.60	38	5	16.12	TCLSHT
ABA0418_6-6	6	6	18	22441.3	22441.3	0.02%	15.01	0.42	15.43	7.24	38	5	22.68	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%	9.25	0.14	9.38	7.69	52	7	17.08	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%	10.51	0.13	10.65	3.42	36	5	14.07	TCLSHT
ABA0718_6-6	6	6	18	22014.5	22014.5	0.02%	13.66	0.17	13.83	5.53	44	6	19.37	TCLSHT
ABA0818_6-6	6	6	18	20299.5	20299.5	0.20%	17.66	0.30	17.97	4.37	30	4	22.34	TCLSHT
ABA0918_6-6	6	6	18	21702.5	21702.5	0.00%	14.96	0.36	15.32	7.83	22	3	23.15	TCLSHT
ABA006_6-12	12	6	6	12825.4	12825.4	0.10%	1.15	0.04	1.19	1.04	15	3	2.23	TCLSHT
ABA016_6-12	12	6	6	13113.1	13113.1	0.00%	1.19	0.09	1.28	1.20	15	3	2.48	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%	0.87	0.06	0.93	0.55	10	2	1.48	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%	1.02	0.03	1.06	0.40	15	3	1.46	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%	1.08	0.03	1.11	0.59	15	3	1.71	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%	0.84	0.05	0.89	0.84	20	4	1.74	TCLSHT
ABA066_6-12	12	6	6	11702.1	11702.1	0.00%	1.21	0.07	1.28	1.34	20	4	2.62	TCLSHT
ABA076_6-12	12	6	6	13572.5	13572.5	0.00%	1.64	0.07	1.71	3.29	15	3	5.00	TCLSHT
ABA086_6-12	12	6	6	13529.0	13529.0	0.44%	2.02	0.04	2.06	1.94	15	3	4.00	TCLSHT
ABA096_6-12	12	6	6	14421.5	14421.5	0.12%	1.81	0.08	1.90	2.57	15	3	4.47	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%	4.07	0.07	4.14	4.91	40	7	9.06	TCLSHT
ABA0112_6-12	12	6	12	25699.5	25699.5	0.00%	4.93	0.14	5.07	9.62	57	10	14.69	TCLSHT
ABA0212_6-12	12	6	12	24225.2	24225.2	0.03%	4.06	0.18	4.24	22.58	23	4	26.82	TCLSHT
ABA0312_6-12	12	6	12	26589.5	26589.5	0.00%	2.86	0.16	3.03	6.00	40	7	9.03	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%	2.21	0.12	2.33	4.45	40	7	6.79	TCLSHT
ABA0512_6-12	12	6	12	26322.3	26322.3	0.00%	5.02	0.10	5.12	10.82	40	7	15.95	TCLSHT
ABA0612_6-12	12	6	12	23644.2	23644.2	0.03%	4.67	0.08	4.76	4.20	17	3	8.96	TCLSHT
ABA0712_6-12	12	6	12	28116.6	28116.6	0.05%	5.97	0.35	6.32	34.91	29	5	41.23	TCLSHT
ABA0812_6-12	12	6	12	25974.7	25974.7	0.20%	7.26	0.11	7.37	22.18	40	7	29.55	TCLSHT
ABA0912_6-12	12	6	12	27423.9	27423.9	0.00%	6.65	0.12	6.77	11.16	40	7	17.94	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%	10.16	0.10	10.27	11.10	30	4	21.37	TCLSHT
ABA0118_6-12	12	6	18	41270.3	41270.3	0.07%	12.91	0.15	13.06	17.78	38	5	30.84	TCLSHT
ABA0218_6-12	12	6	18	36881.5	36881.5	0.00%	9.50	0.13	9.64	14.03	38	5	23.67	TCLSHT
ABA0318_6-12	12	6	18	38512.4	38512.4	0.00%	8.02	0.14	8.16	7.07	22	3	15.23	TCLSHT
ABA0418_6-12	12	6	18	37126.2	37126.2	0.00%	5.61	0.14	5.76	5.75	22	3	11.51	TCLSHT
ABA0518_6-12	12	6	18	40633.3	40633.3	0.02%	9.26	0.21	9.47	14.80	38	5	24.27	TCLSHT
ABA0618_6-12	12	6	18	37432.6	37432.6	0.03%	13.28	0.15	13.43	13.11	22	3	26.54	TCLSHT
ABA0718_6-12	12	6	18	41590.9	41590.9	0.20%	16.63	0.19	16.83	29.93	38	5	46.76	TCLSHT
ABA0818_6-12	12	6	18	39535.3	39535.3	0.28%	17.67	0.19	17.86	90.78	38	5	108.64	TCLSHT
ABA0918_6-12	12	6	18	41326.0	41326.0	0.04%	13.88	0.23	14.11	28.86	52	7	42.98	TCLSHT
ABA006_6-25	25	6	6	25664.9	25664.9	0.02%	2.05	0.10	2.15	6.36	15	3	8.51	TCLSHT
ABA016_6-25	25	6	6	25416.7	25416.7	0.05%	2.85	0.05	2.91	7.24	25	5	10.14	TCLSHT
ABA026_6-25	25	6	6	26804.0	26804.0	0.05%	1.38	0.06	1.44	1.51	20	4	2.95	TCLSHT
ABA036_6-25	25	6	6	26814.4	26814.4	0.00%	2.45	0.08	2.53	13.80	20	4	16.33	TCLSHT
ABA046_6-25	25	6	6	28539.0	28539.0	0.10%	3.34	0.09	3.44	18.22	15	3	21.66	TCLSHT
ABA056_6-25	25	6	6	26305.6	26305.6	0.07%	2.47	0.08	2.56	8.58	20	4	11.14	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%	1.16	0.09	1.26	1.71	15	3	2.97	TCLSHT
ABA076_6-25	25	6	6	27982.9	27982.9	0.03%	2.05	0.08	2.13	3.80	20	4	5.93	TCLSHT
ABA086_6-25	25	6	6	26705.4	26705.4	0.14%	1.97	0.11	2.07	6.03	15	3	8.11	TCLSHT
ABA096_6-25	25	6	6	26343.4	26343.4	0.00%	2.22	0.05	2.27	2.50	20	4	4.77	TCLSHT
ABA0012_6-25	25	6	12	52447.1	52447.1	0.07%	9.20	0.21	9.40	46.46	34	6	55.87	TCLSHT
ABA0112_6-25	25	6	12	52630.5	52630.5	0.11%	7.30	0.20	7.50	86.54	40	7	94.05	TCLSHT
ABA0212_6-25	25	6	12	53995.7	53995.7	0.00%	5.25	0.12	5.38	23.64	62	11	29.02	TCLSHT
ABA0312_6-25	25	6	12	52439.6	52439.6	0.14%	8.65	0.18	8.84	63.43	34	6	72.27	TCLSHT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0412_6-25	25	6	12	56019.7	56019.7	0.15%	7.87	0.24	8.12	113.61	51	9	121.72	TCLSHT
ABA0512_6-25	25	6	12	51812.4	51812.4	0.06%	6.78	0.28	7.07	59.52	40	7	66.59	TCLSHT
ABA0612_6-25	25	6	12	50992.6	50992.6	0.02%	3.66	0.11	3.78	10.87	51	9	14.65	TCLSHT
ABA0712_6-25	25	6	12	52731.5	52731.5	0.07%	7.46	0.35	7.85	20.95	29	5	28.80	TCLSHT
ABA0812_6-25	25	6	12	51185.7	51185.7	0.00%	5.43	0.13	5.56	24.41	52	9	29.98	TCLSHT
ABA0912_6-25	25	6	12	53592.4	53592.4	0.03%	7.15	0.27	7.43	31.73	40	7	39.16	TCLSHT
ABA0018_6-25	25	6	18	76418.4	76418.4	0.16%	16.68	0.42	17.10	146.14	38	5	163.24	TCLSHT
ABA0118_6-25	25	6	18	79409.4	79409.4	0.04%	16.98	0.32	17.30	103.33	44	6	120.64	TCLSHT
ABA0218_6-25	25	6	18	81685.4	81685.4	0.04%	17.28	0.24	17.53	77.25	52	7	94.79	TCLSHT
ABA0318_6-25	25	6	18	79843.5	79843.5	0.23%	21.66	0.29	21.96	181.05	30	4	203.02	TCLSHT
ABA0418_6-25	25	6	18	84929.9	84929.9	0.13%	15.32	0.21	15.54	174.84	44	6	190.38	TCLSHT
ABA0518_6-25	25	6	18	80993.7	80993.7	0.06%	15.97	0.31	16.29	66.20	38	5	82.49	TCLSHT
ABA0618_6-25	25	6	18	76312.7	76312.7	0.00%	10.88	0.19	11.08	24.03	52	7	35.11	TCLSHT
ABA0718_6-25	25	6	18	77695.9	77695.9	0.05%	12.51	0.21	12.73	81.20	52	7	93.93	TCLSHT
ABA0818_6-25	25	6	18	75117.4	75117.4	0.02%	13.78	0.28	14.06	49.89	52	7	63.95	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%	11.68	0.29	11.98	18.52	38	5	30.50	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%	3.31	0.10	3.42	5.57	15	3	9.00	TCLSHT
ABA016_6-50	50	6	6	50639.7	50639.7	0.00%	3.18	0.17	3.35	6.32	15	3	9.68	TCLSHT
ABA026_6-50	50	6	6	52223.7	52223.7	0.09%	4.26	0.15	4.41	11.39	15	3	15.81	TCLSHT
ABA036_6-50	50	6	6	51690.8	51690.8	0.01%	2.28	0.07	2.38	5.06	20	4	7.44	TCLSHT
ABA046_6-50	50	6	6	54008.2	54008.2	0.01%	3.99	0.15	4.15	8.98	10	2	13.13	TCLSHT
ABA056_6-50	50	6	6	52780.7	52780.7	0.05%	3.48	0.13	3.62	4.93	15	3	8.55	TCLSHT
ABA066_6-50	50	6	6	51971.6	51971.6	0.03%	3.79	0.08	3.87	19.40	20	4	23.27	TCLSHT
ABA076_6-50	50	6	6	54017.2	54017.2	0.03%	3.12	0.14	3.26	3.21	15	3	6.48	TCLSHT
ABA086_6-50	50	6	6	50868.0	50868.0	0.00%	3.67	0.14	3.81	22.41	25	5	26.23	TCLSHT
ABA096_6-50	50	6	6	50681.2	50681.2	0.01%	2.10	0.07	2.16	3.21	15	3	5.38	TCLSHT
ABA0012_6-50	50	6	12	102500.7	102500.7	0.01%	9.68	0.25	9.94	50.94	46	8	60.88	TCLSHT
ABA0112_6-50	50	6	12	101529.4	101529.4	0.01%	11.20	0.24	11.45	37.28	23	4	48.74	TCLSHT
ABA0212_6-50	50	6	12	105096.3	105096.3	0.05%	12.79	0.25	13.04	118.20	34	6	131.25	TCLSHT
ABA0312_6-50	50	6	12	102566.8	102566.8	0.02%	9.78	0.22	10.01	57.11	57	10	67.13	TCLSHT
ABA0412_6-50	50	6	12	109751.7	109751.7	0.04%	10.42	0.25	10.67	59.87	23	4	70.55	TCLSHT
ABA0512_6-50	50	6	12	105399.2	105399.2	0.07%	10.18	0.30	10.48	134.24	63	11	144.73	TCLSHT
ABA0612_6-50	50	6	12	102026.0	102026.0	0.05%	12.23	0.39	12.62	124.66	46	8	137.29	TCLSHT
ABA0712_6-50	50	6	12	107562.8	107562.8	0.02%	10.46	0.20	10.67	58.87	52	9	69.55	TCLSHT
ABA0812_6-50	50	6	12	99901.6	99901.6	0.01%	7.30	0.34	7.65	30.94	29	5	38.59	TCLSHT
ABA0912_6-50	50	6	12	102312.5	102312.5	0.00%	8.75	0.35	9.11	29.14	23	4	38.25	TCLSHT
ABA0018_6-50	50	6	18	152833.3	152833.3	0.03%	22.79	0.49	23.29	130.80	44	6	154.09	TCLSHT
ABA0118_6-50	50	6	18	150964.2	150964.2	0.01%	26.62	0.52	27.15	38.44	22	3	65.60	TCLSHT
ABA0218_6-50	50	6	18	154504.5	154504.5	0.06%	23.02	0.71	23.74	112.68	30	4	136.43	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%	20.51	0.54	21.07	34.95	30	4	56.03	TCLSHT
ABA0418_6-50	50	6	18	164854.7	164854.7	0.05%	23.40	0.74	24.14	225.22	60	8	249.36	TCLSHT
ABA0518_6-50	50	6	18	155427.8	155427.8	0.07%	27.49	0.82	28.31	161.91	38	5	190.23	TCLSHT
ABA0618_6-50	50	6	18	154306.8	154306.8	0.08%	31.33	0.69	32.02	184.75	38	5	216.78	TCLSHT
ABA0718_6-50	50	6	18	159118.6	159118.6	0.02%	19.30	0.36	19.67	128.94	52	7	148.62	TCLSHT
ABA0818_6-50	50	6	18	151032.7	151032.7	0.00%	13.93	0.46	14.41	32.32	22	3	46.74	TCLSHT
ABA0918_6-50	50	6	18	154191.9	154191.9	0.03%	19.13	0.31	19.45	123.72	46	6	143.19	TCLSHT
ABB006_2-6	6	2	6	8226.6	8226.6	0.00%	0.42	0.02	0.44	0.72	25	5	1.16	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%	0.26	0.02	0.27	0.19	15	3	0.46	TCLSLT
ABB026_2-6	6	2	6	7170.7	7170.7	0.19%	0.35	0.01	0.37	0.17	10	2	0.54	TCLSLT
ABB046_2-6	6	2	6	8149.1	8149.1	1.44%	0.36	0.02	0.38	0.79	15	3	1.17	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%	0.22	0.02	0.24	0.15	15	3	0.39	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%	0.42	0.02	0.44	0.19	10	2	0.63	TCLSLT
ABB076_2-6	6	2	6	9178.5	9178.5	0.00%	0.26	0.02	0.28	0.18	10	2	0.46	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%	0.27	0.01	0.28	0.04	5	1	0.32	TCLSLT
ABB096_2-6	6	2	6	7159.3	7159.3	0.10%	0.20	0.01	0.21	0.12	15	3	0.33	TCLSLT
ABB0012_2-6	6	2	12	15715.0	15715.0	0.00%	1.93	0.02	1.95	3.19	52	9	5.15	TCLSLT
ABB0112_2-6	6	2	12	13458.1	13458.1	0.00%	0.98	0.03	1.01	1.41	34	6	2.42	TCLSLT
ABB0212_2-6	6	2	12	14994.9	14994.9	0.30%	1.39	0.02	1.42	2.62	34	6	4.04	TCLSLT
ABB0412_2-6	6	2	12	14139.6	14139.6	0.00%	1.59	0.03	1.62	4.48	51	9	6.10	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%	0.70	0.03	0.73	0.90	35	6	1.63	TCLSLT
ABB0612_2-6	6	2	12	15105.9	15105.9	0.14%	0.92	0.02	0.94	1.05	23	4	1.99	TCLSLT
ABB0712_2-6	6	2	12	16715.8	16715.8	0.02%	1.44	0.03	1.47	2.54	57	10	4.02	TCLSLT
ABB0812_2-6	6	2	12	14190.2	14190.2	0.03%	0.89	0.02	0.91	0.68	17	3	1.60	TCLSLT
ABB0912_2-6	6	2	12	16158.4	16158.4	0.00%	0.95	0.02	0.98	0.90	34	6	1.88	TCLSLT
ABB0018_2-6	6	2	18	22001.6	22001.6	0.24%	5.16	0.04	5.20	5.95	30	4	11.15	TCLSLT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%	2.68	0.03	2.71	1.48	44	6	4.19	TCLSLT
ABB0218_2-6	6	2	18	22591.8	22591.8	0.00%	2.70	0.04	2.74	3.03	44	6	5.77	TCLSLT
ABB0418_2-6	6	2	18	20438.5	20438.5	0.25%	4.89	0.03	4.92	9.22	66	9	14.14	TCLSLT
ABB0518_2-6	6	2	18	25198.4	25198.4	0.00%	1.99	0.06	2.06	2.74	38	5	4.80	TCLSLT
ABB0618_2-6	6	2	18	22966.8	22966.8	0.10%	2.87	0.04	2.91	3.20	44	6	6.11	TCLSLT
ABB0718_2-6	6	2	18	24512.4	24512.4	0.03%	3.95	0.03	3.98	6.10	60	8	10.09	TCLSLT
ABB0818_2-6	6	2	18	20972.8	20972.8	0.01%	2.58	0.05	2.63	2.81	38	5	5.44	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%	1.80	0.03	1.83	2.13	50	7	3.97	TCLSLT
ABB006_2-12	12	2	6	12765.5	12765.5	0.10%	0.40	0.02	0.42	0.16	10	2	0.58	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%	0.50	0.02	0.52	0.35	15	3	0.87	TCLSLT
ABB026_2-12	12	2	6	14404.4	14404.4	0.14%	0.62	0.02	0.64	0.53	15	3	1.17	TCLSLT
ABB036_2-12	12	2	6	16425.0	16425.0	0.19%	0.45	0.02	0.47	0.49	15	3	0.96	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%	0.51	0.01	0.53	0.33	10	2	0.87	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%	0.52	0.04	0.56	0.25	10	2	0.81	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%	0.39	0.02	0.42	0.47	15	3	0.89	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%	0.35	0.02	0.37	0.29	15	3	0.67	TCLSLT
ABB086_2-12	12	2	6	12999.9	12999.9	0.13%	0.48	0.02	0.51	0.47	15	3	0.98	TCLSLT
ABB096_2-12	12	2	6	16045.8	16045.8	0.08%	0.60	0.02	0.62	0.69	15	3	1.31	TCLSLT
ABB0012_2-12	12	2	12	26283.8	26283.8	0.00%	1.06	0.05	1.11	1.48	34	6	2.60	TCLSLT
ABB0112_2-12	12	2	12	27509.7	27509.7	0.00%	1.53	0.03	1.56	2.19	40	7	3.75	TCLSLT
ABB0212_2-12	12	2	12	27438.7	27438.7	0.17%	1.76	0.04	1.80	4.89	23	4	6.69	TCLSLT
ABB0312_2-12	12	2	12	31879.2	31879.2	0.09%	1.57	0.07	1.64	3.25	46	8	4.89	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%	1.79	0.03	1.82	2.33	40	7	4.16	TCLSLT
ABB0512_2-12	12	2	12	32202.5	32202.5	0.01%	1.59	0.03	1.62	4.07	40	7	5.69	TCLSLT
ABB0612_2-12	12	2	12	27347.7	27347.7	0.00%	1.71	0.03	1.74	1.05	23	4	2.79	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%	1.28	0.04	1.32	2.72	45	8	4.05	TCLSLT
ABB0812_2-12	12	2	12	26745.4	26745.4	0.00%	1.58	0.03	1.61	4.59	57	10	6.19	TCLSLT
ABB0912_2-12	12	2	12	31372.1	31372.1	0.41%	2.74	0.03	2.77	7.42	34	6	10.19	TCLSLT
ABB0118_2-12	12	2	18	40646.5	40646.5	0.06%	3.33	0.06	3.39	10.05	66	9	13.44	TCLSLT
ABB0218_2-12	12	2	18	42006.5	42006.5	0.11%	7.47	0.06	7.52	13.53	52	7	21.05	TCLSLT
ABB0318_2-12	12	2	18	46494.6	46494.6	0.20%	4.08	0.06	4.15	5.65	22	3	9.80	TCLSLT
ABB0418_2-12	12	2	18	44295.0	44295.0	0.03%	2.99	0.05	3.04	4.72	30	4	7.76	TCLSLT
ABB0518_2-12	12	2	18	47423.9	47423.9	0.03%	3.15	0.06	3.20	7.75	52	7	10.95	TCLSLT
ABB0618_2-12	12	2	18	40779.1	40779.1	0.05%	3.52	0.04	3.57	3.65	36	5	7.22	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%	2.10	0.05	2.14	2.14	22	3	4.28	TCLSLT
ABB0818_2-12	12	2	18	41483.7	41483.7	0.08%	3.59	0.06	3.65	14.49	44	6	18.15	TCLSLT
ABB0918_2-12	12	2	18	47565.6	47565.6	0.24%	4.63	0.06	4.68	24.19	38	5	28.88	TCLSLT
ABB006_2-25	25	2	6	29259.2	29259.2	0.14%	0.55	0.03	0.58	0.63	15	3	1.21	TCLSLT
ABB016_2-25	25	2	6	30002.5	30002.5	0.16%	0.95	0.03	0.98	0.79	10	2	1.77	TCLSLT
ABB026_2-25	25	2	6	28798.4	28798.4	0.08%	1.16	0.03	1.20	1.06	15	3	2.26	TCLSLT
ABB036_2-25	25	2	6	30288.7	30288.7	0.04%	0.70	0.04	0.73	1.21	15	3	1.94	TCLSLT
ABB046_2-25	25	2	6	31552.9	31552.9	0.04%	0.84	0.03	0.87	0.78	10	2	1.66	TCLSLT
ABB056_2-25	25	2	6	31768.9	31768.9	0.07%	0.99	0.04	1.03	1.93	15	3	2.96	TCLSLT
ABB066_2-25	25	2	6	27915.6	27915.6	0.07%	0.53	0.04	0.57	0.26	10	2	0.83	TCLSLT
ABB076_2-25	25	2	6	31475.7	31475.7	0.12%	1.00	0.04	1.05	1.02	10	2	2.07	TCLSLT
ABB086_2-25	25	2	6	32359.2	32359.2	0.02%	0.89	0.04	0.93	1.22	15	3	2.15	TCLSLT
ABB096_2-25	25	2	6	33499.7	33499.7	0.10%	0.88	0.05	0.92	1.62	15	3	2.55	TCLSLT
ABB0012_2-25	25	2	12	58333.1	58333.1	0.01%	2.27	0.06	2.33	13.48	51	9	15.81	TCLSLT
ABB0112_2-25	25	2	12	61087.0	61087.0	0.00%	2.56	0.07	2.63	12.74	68	12	15.38	TCLSLT
ABB0212_2-25	25	2	12	56468.0	56468.0	0.05%	3.84	0.05	3.89	8.51	34	6	12.41	TCLSLT
ABB0312_2-25	25	2	12	59350.1	59350.1	0.06%	3.24	0.05	3.29	12.88	52	9	16.16	TCLSLT
ABB0412_2-25	25	2	12	59859.1	59859.1	0.00%	2.48	0.08	2.56	5.24	45	8	7.81	TCLSLT
ABB0512_2-25	25	2	12	65375.9	65375.9	0.15%	4.46	0.06	4.52	26.12	40	7	30.65	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%	1.23	0.06	1.29	1.68	34	6	2.97	TCLSLT
ABB0712_2-25	25	2	12	62941.3	62941.3	0.07%	3.47	0.04	3.51	11.07	51	9	14.59	TCLSLT
ABB0812_2-25	25	2	12	63121.5	63121.5	0.06%	4.43	0.05	4.47	16.87	34	6	21.34	TCLSLT
ABB0912_2-25	25	2	12	64163.2	64163.2	0.09%	2.83	0.04	2.87	11.02	23	4	13.89	TCLSLT
ABB0018_2-25	25	2	18	87120.3	87120.3	0.03%	3.40	0.12	3.53	4.95	30	4	8.49	TCLSLT
ABB0118_2-25	25	2	18	88769.2	88769.2	0.08%	7.86	0.08	7.94	20.58	52	7	28.52	TCLSLT
ABB0218_2-25	25	2	18	83541.6	83541.6	0.05%	6.12	0.06	6.19	12.85	38	5	19.04	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.06%	7.12	0.08	7.21	32.18	38	5	39.38	TCLSLT
ABB0418_2-25	25	2	18	90841.8	90841.8	0.05%	5.92	0.09	6.02	25.67	74	10	31.69	TCLSLT
ABB0518_2-25	25	2	18	95605.3	95605.3	0.17%	9.03	0.08	9.11	119.13	52	7	128.25	TCLSLT
ABB0618_2-25	25	2	18	83620.4	83620.4	0.00%	2.50	0.10	2.60	5.72	44	6	8.32	TCLSLT
ABB0718_2-25	25	2	18	92472.8	92472.8	0.10%	8.42	0.38	8.81	62.28	52	7	71.09	TCLSLT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0818_2-25	25	2	18	91826.7	91826.7	0.09%	9.56	0.09	9.65	57.11	30	4	66.77	TCLSLT
ABB0918_2-25	25	2	18	93419.2	93419.2	0.07%	7.34	0.07	7.41	24.06	52	7	31.48	TCLSLT
ABB006_2-50	50	2	6	58864.8	58864.8	0.03%	1.10	0.06	1.17	0.53	10	2	1.69	TCLSLT
ABB016_2-50	50	2	6	60384.7	60384.7	0.02%	1.24	0.03	1.27	1.46	20	4	2.73	TCLSLT
ABB026_2-50	50	2	6	56432.8	56432.8	0.00%	1.50	0.05	1.55	1.65	15	3	3.20	TCLSLT
ABB036_2-50	50	2	6	59472.2	59472.2	0.02%	1.44	0.04	1.49	1.04	10	2	2.53	TCLSLT
ABB046_2-50	50	2	6	61217.2	61217.2	0.00%	1.63	0.05	1.69	2.13	10	2	3.81	TCLSLT
ABB056_2-50	50	2	6	59575.9	59575.9	0.04%	1.37	0.08	1.45	3.08	15	3	4.54	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%	1.31	0.08	1.39	1.51	15	3	2.90	TCLSLT
ABB076_2-50	50	2	6	59125.4	59125.4	0.01%	1.24	0.06	1.30	4.11	15	3	5.41	TCLSLT
ABB086_2-50	50	2	6	60191.9	60191.9	0.01%	1.37	0.06	1.43	0.91	10	2	2.34	TCLSLT
ABB096_2-50	50	2	6	60815.7	60815.7	0.02%	1.35	0.03	1.38	0.93	10	2	2.31	TCLSLT
ABB0012_2-50	50	2	12	117392.5	117392.5	0.00%	2.74	0.09	2.83	7.27	39	7	10.10	TCLSLT
ABB0112_2-50	50	2	12	119977.0	119977.0	0.00%	3.47	0.10	3.57	4.49	34	6	8.06	TCLSLT
ABB0212_2-50	50	2	12	114329.9	114329.9	0.01%	5.10	0.25	5.36	16.46	34	6	21.82	TCLSLT
ABB0312_2-50	50	2	12	120107.3	120107.3	0.00%	3.96	0.09	4.05	10.33	34	6	14.39	TCLSLT
ABB0412_2-50	50	2	12	122580.6	122580.6	0.02%	4.95	0.08	5.03	54.87	45	8	59.90	TCLSLT
ABB0512_2-50	50	2	12	119625.3	119625.3	0.00%	3.84	0.13	3.97	8.67	23	4	12.65	TCLSLT
ABB0612_2-50	50	2	12	113743.2	113743.2	0.01%	3.23	0.06	3.30	8.63	57	10	11.93	TCLSLT
ABB0712_2-50	50	2	12	115036.1	115036.1	0.02%	4.12	0.32	4.44	25.27	29	5	29.71	TCLSLT
ABB0812_2-50	50	2	12	115707.7	115707.7	0.03%	5.45	0.18	5.63	23.25	23	4	28.88	TCLSLT
ABB0912_2-50	50	2	12	122631.4	122631.4	0.01%	5.11	0.10	5.21	11.88	46	8	17.10	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%	4.86	0.12	4.98	6.88	44	6	11.86	TCLSLT
ABB0118_2-50	50	2	18	178899.1	178899.1	0.00%	7.99	0.14	8.14	18.57	66	9	26.71	TCLSLT
ABB0218_2-50	50	2	18	170081.2	170081.2	0.03%	10.50	0.26	10.77	51.35	30	4	62.12	TCLSLT
ABB0318_2-50	50	2	18	181248.6	181248.6	0.01%	7.84	0.19	8.03	30.81	60	8	38.84	TCLSLT
ABB0418_2-50	50	2	18	182952.3	182952.3	0.06%	11.59	0.12	11.71	108.98	22	3	120.70	TCLSLT
ABB0518_2-50	50	2	18	181346.4	181346.4	0.01%	7.25	0.19	7.45	50.47	52	7	57.92	TCLSLT
ABB0618_2-50	50	2	18	171902.0	171902.0	0.00%	7.22	0.13	7.36	16.39	52	7	23.75	TCLSLT
ABB0718_2-50	50	2	18	172679.2	172679.2	0.01%	7.85	0.24	8.09	55.18	66	9	63.28	TCLSLT
ABB0818_2-50	50	2	18	173944.6	173944.6	0.02%	9.87	0.28	10.16	35.78	52	7	45.94	TCLSLT
ABB0918_2-50	50	2	18	183305.7	183305.7	0.02%	10.82	0.12	10.94	105.36	52	7	116.31	TCLSLT
ABB006_4-6	6	4	6	6457.8	6457.8	0.00%	0.53	0.04	0.57	0.44	15	3	1.01	TCLSLT
ABB016_4-6	6	4	6	7430.0	7430.0	0.18%	0.94	0.06	1.00	0.90	15	3	1.91	TCLSLT
ABB026_4-6	6	4	6	7464.6	7464.6	0.02%	0.69	0.02	0.71	0.45	15	3	1.17	TCLSLT
ABB036_4-6	6	4	6	6820.0	6820.0	0.00%	0.65	0.04	0.69	0.49	15	3	1.19	TCLSLT
ABB046_4-6	6	4	6	5696.2	5696.2	0.25%	0.51	0.08	0.58	0.69	20	4	1.27	TCLSLT
ABB056_4-6	6	4	6	8022.7	8022.7	0.04%	0.90	0.04	0.94	0.89	15	3	1.83	TCLSLT
ABB066_4-6	6	4	6	6518.7	6518.7	0.22%	0.85	0.03	0.88	0.22	10	2	1.10	TCLSLT
ABB076_4-6	6	4	6	7826.7	7826.7	0.03%	0.91	0.02	0.94	0.57	15	3	1.51	TCLSLT
ABB086_4-6	6	4	6	5929.3	5929.3	0.21%	1.74	0.05	1.79	1.03	20	4	2.82	TCLSLT
ABB096_4-6	6	4	6	8611.3	8611.3	0.00%	1.88	0.09	1.97	0.68	15	3	2.65	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%	3.59	0.08	3.67	1.67	23	4	5.34	TCLSLT
ABB0112_4-6	6	4	12	15530.8	15530.8	0.00%	5.18	0.09	5.27	7.63	40	7	12.90	TCLSLT
ABB0212_4-6	6	4	12	14793.4	14793.4	0.00%	2.61	0.09	2.71	1.81	23	4	4.52	TCLSLT
ABB0312_4-6	6	4	12	14718.6	14718.6	0.00%	2.47	0.08	2.55	1.97	40	7	4.52	TCLSLT
ABB0412_4-6	6	4	12	13197.0	13197.0	0.00%	2.55	0.11	2.66	6.39	40	7	9.05	TCLSLT
ABB0512_4-6	6	4	12	16267.7	16267.7	0.06%	4.57	0.06	4.63	13.98	40	7	18.62	TCLSLT
ABB0612_4-6	6	4	12	12967.0	12967.0	0.10%	3.50	0.05	3.56	1.73	34	6	5.29	TCLSLT
ABB0712_4-6	6	4	12	14887.1	14887.1	0.02%	2.55	0.04	2.59	1.95	34	6	4.54	TCLSLT
ABB0812_4-6	6	4	12	12597.4	12597.4	0.00%	2.70	0.08	2.79	1.99	34	6	4.78	TCLSLT
ABB0912_4-6	6	4	12	15116.9	15116.9	0.00%	3.90	0.05	3.96	4.49	68	12	8.44	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%	6.35	0.12	6.48	6.41	38	5	12.89	TCLSLT
ABB0118_4-6	6	4	18	22172.5	22172.5	0.06%	11.09	0.09	11.18	12.20	46	6	23.38	TCLSLT
ABB0218_4-6	6	4	18	21739.2	21739.2	0.02%	8.32	0.09	8.42	3.92	30	4	12.34	TCLSLT
ABB0318_4-6	6	4	18	22551.7	22551.7	0.04%	7.03	0.11	7.15	8.61	52	7	15.76	TCLSLT
ABB0418_4-6	6	4	18	20284.2	20284.2	0.00%	5.54	0.07	5.61	7.39	44	6	13.00	TCLSLT
ABB0518_4-6	6	4	18	24090.0	24090.0	0.33%	9.82	0.09	9.91	39.34	52	7	49.25	TCLSLT
ABB0618_4-6	6	4	18	20175.9	20175.9	0.10%	8.36	0.08	8.45	5.36	44	6	13.81	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%	4.54	0.08	4.63	3.97	44	6	8.60	TCLSLT
ABB0818_4-6	6	4	18	18406.8	18406.8	0.00%	6.42	0.08	6.50	3.68	38	5	10.19	TCLSLT
ABB0918_4-6	6	4	18	22391.8	22391.8	0.00%	7.52	0.05	7.57	2.20	30	4	9.77	TCLSLT
ABB006_4-12	12	4	6	13448.6	13448.6	0.02%	0.88	0.04	0.93	1.17	15	3	2.10	TCLSLT
ABB016_4-12	12	4	6	15659.3	15659.3	0.06%	1.24	0.05	1.29	2.77	20	4	4.06	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%	1.24	0.03	1.27	1.03	15	3	2.31	TCLSLT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB036_4-12	12	4	6	12491.1	12491.1	0.19%	1.15	0.03	1.17	0.76	10	2	1.93	TCLSLT
ABB046_4-12	12	4	6	14515.4	14515.4	0.22%	0.97	0.06	1.03	1.37	15	3	2.40	TCLSLT
ABB056_4-12	12	4	6	14352.4	14352.4	0.08%	0.90	0.04	0.94	2.69	15	3	3.63	TCLSLT
ABB066_4-12	12	4	6	12712.5	12712.5	0.12%	0.77	0.03	0.81	0.31	10	2	1.12	TCLSLT
ABB076_4-12	12	4	6	12646.6	12646.6	0.32%	1.01	0.03	1.04	0.55	10	2	1.60	TCLSLT
ABB086_4-12	12	4	6	14771.6	14771.6	0.01%	1.18	0.02	1.21	0.77	15	3	1.97	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%	0.97	0.05	1.02	1.99	15	3	3.01	TCLSLT
ABB0012_4-12	12	4	12	25178.8	25178.8	0.12%	4.33	0.10	4.43	45.36	57	10	49.79	TCLSLT
ABB0112_4-12	12	4	12	29031.1	29031.1	0.39%	6.84	0.11	6.95	66.92	35	6	73.87	TCLSLT
ABB0212_4-12	12	4	12	26753.4	26753.4	0.01%	4.60	0.07	4.66	22.55	51	9	27.22	TCLSLT
ABB0312_4-12	12	4	12	25867.1	25867.1	0.24%	5.03	0.09	5.11	9.16	23	4	14.27	TCLSLT
ABB0412_4-12	12	4	12	27625.6	27625.6	0.10%	4.33	0.07	4.41	7.91	40	7	12.31	TCLSLT
ABB0512_4-12	12	4	12	28247.2	28247.2	0.20%	3.29	0.08	3.38	84.66	68	12	88.03	TCLSLT
ABB0612_4-12	12	4	12	24754.1	24754.1	0.00%	1.81	0.06	1.87	2.37	34	6	4.24	TCLSLT
ABB0712_4-12	12	4	12	26646.6	26646.6	0.00%	3.07	0.09	3.17	12.75	52	9	15.93	TCLSLT
ABB0812_4-12	12	4	12	28372.8	28372.8	0.00%	5.85	0.08	5.93	10.16	57	10	16.09	TCLSLT
ABB0912_4-12	12	4	12	29008.1	29008.1	0.37%	4.87	0.06	4.93	64.91	29	5	69.84	TCLSLT
ABB0018_4-12	12	4	18	38888.6	38888.6	0.21%	10.49	0.12	10.61	82.08	60	8	92.70	TCLSLT
ABB0118_4-12	12	4	18	42634.0	42634.0	0.31%	14.17	0.14	14.32	102.49	38	5	116.81	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.02%	9.58	0.12	9.70	14.32	22	3	24.03	TCLSLT
ABB0318_4-12	12	4	18	40321.0	40321.0	0.45%	11.94	0.11	12.05	107.51	38	5	119.56	TCLSLT
ABB0418_4-12	12	4	18	41075.8	41075.8	0.12%	8.16	0.14	8.30	43.14	52	7	51.45	TCLSLT
ABB0518_4-12	12	4	18	41439.8	41439.8	0.21%	8.99	0.11	9.11	79.08	60	8	88.19	TCLSLT
ABB0618_4-12	12	4	18	37393.7	37393.7	0.00%	5.28	0.09	5.37	15.55	82	11	20.93	TCLSLT
ABB0718_4-12	12	4	18	41742.8	41742.8	0.29%	9.46	0.19	9.66	39.54	30	4	49.20	TCLSLT
ABB0818_4-12	12	4	18	43237.2	43237.2	0.25%	10.99	0.16	11.15	34.24	52	7	45.39	TCLSLT
ABB0918_4-12	12	4	18	42099.1	42099.1	0.35%	11.27	0.13	11.41	80.52	38	5	91.93	TCLSLT
ABB006_4-25	25	4	6	25710.3	25710.3	0.01%	1.78	0.05	1.84	1.58	15	3	3.42	TCLSLT
ABB016_4-25	25	4	6	29631.1	29631.1	0.02%	1.79	0.06	1.86	2.40	20	4	4.26	TCLSLT
ABB026_4-25	25	4	6	27896.0	27896.0	0.15%	3.48	0.12	3.60	17.44	20	4	21.04	TCLSLT
ABB036_4-25	25	4	6	26316.5	26316.5	0.09%	2.25	0.09	2.34	8.40	20	4	10.74	TCLSLT
ABB046_4-25	25	4	6	26810.4	26810.4	0.19%	1.97	0.18	2.15	1.69	15	3	3.84	TCLSLT
ABB056_4-25	25	4	6	30269.3	30269.3	0.00%	2.16	0.04	2.20	2.28	15	3	4.48	TCLSLT
ABB066_4-25	25	4	6	25472.9	25472.9	0.00%	1.32	0.07	1.39	0.83	10	2	2.23	TCLSLT
ABB076_4-25	25	4	6	27348.3	27348.3	0.10%	2.11	0.06	2.17	10.10	10	2	12.28	TCLSLT
ABB086_4-25	25	4	6	26350.9	26350.9	0.00%	1.41	0.07	1.47	2.00	20	4	3.47	TCLSLT
ABB096_4-25	25	4	6	28094.5	28094.5	0.06%	2.42	0.05	2.48	4.15	20	4	6.63	TCLSLT
ABB0012_4-25	25	4	12	54091.3	54091.3	0.15%	7.87	0.11	7.98	56.39	29	5	64.38	TCLSLT
ABB0112_4-25	25	4	12	56551.4	56551.4	0.02%	5.33	0.24	5.57	22.10	52	9	27.67	TCLSLT
ABB0212_4-25	25	4	12	53616.1	53616.1	0.16%	7.54	0.26	7.81	73.60	34	6	81.41	TCLSLT
ABB0312_4-25	25	4	12	54471.9	54471.9	0.19%	5.75	0.49	6.25	41.09	29	5	47.35	TCLSLT
ABB0412_4-25	25	4	12	55114.0	55114.0	0.03%	3.86	0.10	3.96	6.77	29	5	10.74	TCLSLT
ABB0512_4-25	25	4	12	57306.0	57306.0	0.03%	5.68	0.24	5.93	39.38	52	9	45.32	TCLSLT
ABB0612_4-25	25	4	12	50870.9	50870.9	0.03%	4.46	0.11	4.58	5.39	29	5	9.97	TCLSLT
ABB0712_4-25	25	4	12	55934.7	55934.7	0.14%	9.00	0.14	9.14	91.92	46	8	101.06	TCLSLT
ABB0812_4-25	25	4	12	54344.9	54344.9	0.02%	4.97	0.10	5.07	82.15	63	11	87.22	TCLSLT
ABB0912_4-25	25	4	12	55258.9	55258.9	0.17%	7.21	0.14	7.36	145.73	63	11	153.09	TCLSLT
ABB0018_4-25	25	4	18	78506.6	78506.6	0.10%	13.80	0.26	14.06	157.56	60	8	171.62	TCLSLT
ABB0118_4-25	25	4	18	84170.5	84170.5	0.06%	10.14	0.38	10.53	49.25	38	5	59.79	TCLSLT
ABB0218_4-25	25	4	18	81372.7	81372.7	0.19%	16.19	0.18	16.38	108.39	22	3	124.77	TCLSLT
ABB0318_4-25	25	4	18	80988.6	80988.6	0.17%	15.94	0.20	16.15	123.31	30	4	139.46	TCLSLT
ABB0418_4-25	25	4	18	83472.4	83472.4	0.00%	6.50	0.18	6.69	15.94	44	6	22.63	TCLSLT
ABB0518_4-25	25	4	18	84703.4	84703.4	0.11%	17.11	0.20	17.31	80.21	52	7	97.52	TCLSLT
ABB0618_4-25	25	4	18	77582.2	77582.2	0.00%	7.25	0.36	7.61	17.71	60	8	25.32	TCLSLT
ABB0718_4-25	25	4	18	83254.2	83254.2	0.20%	15.00	0.22	15.23	118.41	30	4	133.65	TCLSLT
ABB0818_4-25	25	4	18	78741.5	78741.5	0.05%	15.22	0.13	15.36	35.79	30	4	51.15	TCLSLT
ABB0918_4-25	25	4	18	82825.8	82825.8	0.16%	19.77	0.26	20.04	115.22	30	4	135.26	TCLSLT
ABB006_4-50	50	4	6	54796.2	54796.2	0.03%	2.58	0.15	2.74	8.08	20	4	10.82	TCLSLT
ABB016_4-50	50	4	6	55554.2	55554.2	0.02%	2.44	0.11	2.56	7.25	20	4	9.81	TCLSLT
ABB026_4-50	50	4	6	56265.8	56265.8	0.06%	4.12	0.10	4.22	27.86	20	4	32.08	TCLSLT
ABB036_4-50	50	4	6	55561.0	55561.0	0.07%	3.40	0.10	3.50	16.89	20	4	20.40	TCLSLT
ABB046_4-50	50	4	6	57280.2	57280.2	0.09%	3.12	0.09	3.21	44.93	20	4	48.14	TCLSLT
ABB056_4-50	50	4	6	57513.8	57513.8	0.01%	2.53	0.10	2.63	6.58	15	3	9.22	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%	2.64	0.10	2.74	1.32	10	2	4.07	TCLSLT
ABB076_4-50	50	4	6	51871.6	51871.6	0.03%	3.07	0.07	3.15	4.92	15	3	8.07	TCLSLT

Continua na Próxima Página

Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%	2.63	0.11	2.74	6.98	20	4	9.72	TCLSLT
ABB096_4-50	50	4	6	60297.4	60297.4	0.04%	3.23	0.10	3.33	3.98	15	3	7.32	TCLSLT
ABB0012_4-50	50	4	12	110848.7	110848.7	0.09%	9.44	0.25	9.69	42.77	23	4	52.47	TCLSLT
ABB0112_4-50	50	4	12	108623.0	108623.0	0.02%	9.22	0.13	9.35	39.97	40	7	49.33	TCLSLT
ABB0212_4-50	50	4	12	108289.7	108289.7	0.05%	10.57	0.17	10.75	61.67	23	4	72.42	TCLSLT
ABB0312_4-50	50	4	12	110666.2	110666.2	0.11%	11.37	0.24	11.62	62.22	23	4	73.85	TCLSLT
ABB0412_4-50	50	4	12	110162.3	110162.3	0.08%	10.47	0.25	10.72	61.54	17	3	72.27	TCLSLT
ABB0512_4-50	50	4	12	112145.0	112145.0	0.01%	7.92	0.35	8.27	32.20	46	8	40.47	TCLSLT
ABB0612_4-50	50	4	12	104150.2	104150.2	0.00%	8.64	0.14	8.78	15.73	51	9	24.51	TCLSLT
ABB0712_4-50	50	4	12	107039.8	107039.8	0.09%	14.71	0.13	14.85	106.50	40	7	121.36	TCLSLT
ABB0812_4-50	50	4	12	106681.6	106681.6	0.02%	7.42	0.16	7.58	29.77	40	7	37.35	TCLSLT
ABB0912_4-50	50	4	12	114606.4	114606.4	0.06%	11.02	0.19	11.21	36.00	23	4	47.21	TCLSLT
ABB0018_4-50	50	4	18	160421.6	160421.6	0.05%	16.71	0.31	17.03	75.43	30	4	92.47	TCLSLT
ABB0118_4-50	50	4	18	162037.8	162037.8	0.02%	15.43	0.23	15.66	63.63	52	7	79.30	TCLSLT
ABB0218_4-50	50	4	18	163372.5	163372.5	0.03%	18.74	0.35	19.10	87.15	38	5	106.26	TCLSLT
ABB0318_4-50	50	4	18	163928.9	163928.9	0.09%	23.65	0.69	24.34	231.91	46	6	256.26	TCLSLT
ABB0418_4-50	50	4	18	167272.8	167272.8	0.10%	24.52	0.70	25.23	177.06	30	4	202.29	TCLSLT
ABB0518_4-50	50	4	18	168392.6	168392.6	0.05%	15.95	0.28	16.24	73.95	38	5	90.19	TCLSLT
ABB0618_4-50	50	4	18	156607.2	156607.2	0.05%	12.00	0.59	12.64	78.88	44	6	91.53	TCLSLT
ABB0718_4-50	50	4	18	162355.5	162355.5	0.09%	25.55	0.43	25.98	249.77	52	7	275.76	TCLSLT
ABB0818_4-50	50	4	18	157551.6	157551.6	0.02%	13.93	0.29	14.23	53.23	30	4	67.47	TCLSLT
ABB0918_4-50	50	4	18	168767.1	168767.1	0.04%	21.73	0.40	22.13	94.70	38	5	116.83	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%	1.03	0.04	1.07	0.27	15	3	1.35	TCLSLT
ABB026_6-6	6	6	6	7102.0	7102.0	0.00%	0.95	0.06	1.01	0.40	15	3	1.41	TCLSLT
ABB036_6-6	6	6	6	7644.4	7644.4	0.08%	0.99	0.05	1.04	0.68	20	4	1.72	TCLSLT
ABB046_6-6	6	6	6	8274.6	8274.6	0.13%	1.38	0.05	1.43	0.65	15	3	2.08	TCLSLT
ABB056_6-6	6	6	6	8225.0	8225.0	0.26%	1.21	0.05	1.26	0.46	10	2	1.73	TCLSLT
ABB066_6-6	6	6	6	6872.6	6872.6	0.06%	0.82	0.05	0.87	0.70	15	3	1.56	TCLSLT
ABB076_6-6	6	6	6	7942.5	7942.5	0.00%	1.43	0.05	1.48	0.47	10	2	1.95	TCLSLT
ABB086_6-6	6	6	6	6976.6	6976.6	0.62%	1.35	0.13	1.49	0.56	15	3	2.05	TCLSLT
ABB096_6-6	6	6	6	7796.4	7796.4	0.12%	1.64	0.06	1.70	1.46	20	4	3.17	TCLSLT
ABB0012_6-6	6	6	12	12392.7	12392.7	0.00%	3.00	0.06	3.06	2.39	51	9	5.46	TCLSLT
ABB0212_6-6	6	6	12	14582.1	14582.1	0.00%	6.54	0.21	6.75	3.48	35	6	10.23	TCLSLT
ABB0312_6-6	6	6	12	15078.8	15078.8	0.00%	4.76	0.09	4.85	2.29	34	6	7.14	TCLSLT
ABB0412_6-6	6	6	12	15469.8	15469.8	0.13%	7.15	0.24	7.39	5.90	46	8	13.29	TCLSLT
ABB0512_6-6	6	6	12	15020.3	15020.3	0.01%	4.58	0.10	4.68	2.54	40	7	7.23	TCLSLT
ABB0612_6-6	6	6	12	13133.9	13133.9	0.00%	6.83	0.08	6.91	4.61	23	4	11.52	TCLSLT
ABB0712_6-6	6	6	12	15512.0	15512.0	0.01%	5.88	0.11	6.00	4.43	56	10	10.43	TCLSLT
ABB0812_6-6	6	6	12	13087.6	13087.6	0.55%	8.53	0.23	8.76	6.83	34	6	15.59	TCLSLT
ABB0912_6-6	6	6	12	14772.9	14772.9	0.00%	8.53	0.15	8.69	17.49	74	13	26.18	TCLSLT
ABB0018_6-6	6	6	18	18384.6	18384.6	0.00%	9.92	0.12	10.04	3.05	44	6	13.09	TCLSLT
ABB0218_6-6	6	6	18	20319.5	20319.5	0.01%	15.79	0.21	16.00	4.68	52	7	20.68	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%	13.62	0.13	13.75	3.41	30	4	17.17	TCLSLT
ABB0418_6-6	6	6	18	23159.0	23159.0	0.05%	21.47	0.33	21.80	22.73	60	8	44.53	TCLSLT
ABB0518_6-6	6	6	18	22884.7	22884.7	0.03%	12.63	0.17	12.81	10.25	46	6	23.06	TCLSLT
ABB0618_6-6	6	6	18	20657.1	20657.1	0.01%	14.39	0.15	14.54	16.68	52	7	31.22	TCLSLT
ABB0718_6-6	6	6	18	22435.9	22435.9	0.07%	15.37	0.19	15.57	4.30	30	4	19.86	TCLSLT
ABB0818_6-6	6	6	18	20800.7	20800.7	0.06%	22.23	0.33	22.56	11.59	60	8	34.16	TCLSLT
ABB0918_6-6	6	6	18	22345.7	22345.7	0.00%	26.16	0.26	26.42	41.75	52	7	68.18	TCLSLT
ABB006_6-12	12	6	6	12948.9	12948.9	0.17%	1.70	0.05	1.75	2.25	15	3	4.00	TCLSLT
ABB016_6-12	12	6	6	13331.5	13331.5	0.01%	1.74	0.12	1.86	3.89	20	4	5.75	TCLSLT
ABB026_6-12	12	6	6	12238.9	12238.9	0.00%	1.41	0.07	1.49	2.16	25	5	3.65	TCLSLT
ABB036_6-12	12	6	6	13147.8	13147.8	0.00%	1.25	0.07	1.33	1.16	20	4	2.49	TCLSLT
ABB046_6-12	12	6	6	12862.7	12862.7	0.00%	1.64	0.04	1.68	1.08	15	3	2.76	TCLSLT
ABB056_6-12	12	6	6	12470.5	12470.5	0.08%	1.34	0.06	1.40	0.53	10	2	1.93	TCLSLT
ABB066_6-12	12	6	6	11860.3	11860.3	0.12%	2.17	0.08	2.25	2.25	20	4	4.50	TCLSLT
ABB076_6-12	12	6	6	13876.5	13876.5	0.13%	1.98	0.06	2.04	5.82	20	4	7.86	TCLSLT
ABB086_6-12	12	6	6	13708.0	13708.0	0.00%	1.96	0.05	2.01	2.09	20	4	4.10	TCLSLT
ABB096_6-12	12	6	6	14623.5	14623.5	0.10%	2.04	0.08	2.12	5.28	15	3	7.40	TCLSLT
ABB0012_6-12	12	6	12	24484.2	24484.2	0.00%	7.54	0.11	7.66	12.18	46	8	19.84	TCLSLT
ABB0112_6-12	12	6	12	26014.2	26014.2	0.00%	5.49	0.12	5.61	26.44	40	7	32.05	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%	7.35	0.20	7.55	32.48	34	6	40.03	TCLSLT
ABB0312_6-12	12	6	12	26919.5	26919.5	0.00%	4.90	0.33	5.23	14.41	29	5	19.65	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%	4.09	0.12	4.21	8.61	40	7	12.82	TCLSLT
ABB0512_6-12	12	6	12	26646.9	26646.9	0.00%	5.54	0.27	5.82	15.76	46	8	21.58	TCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0612_6-12	12	6	12	23906.1	23906.1	0.02%	6.58	0.10	6.68	11.37	46	8	18.05	TCLSLT
ABB0712_6-12	12	6	12	28616.9	28616.9	0.37%	8.94	0.45	9.39	134.55	57	10	143.94	TCLSLT
ABB0812_6-12	12	6	12	26493.4	26493.4	0.33%	7.06	0.22	7.28	76.97	57	10	84.26	TCLSLT
ABB0912_6-12	12	6	12	27760.0	27760.0	0.13%	6.88	0.12	7.01	25.89	46	8	32.90	TCLSLT
ABB0018_6-12	12	6	18	36869.7	36869.7	0.00%	12.34	0.19	12.53	17.18	44	6	29.71	TCLSLT
ABB0118_6-12	12	6	18	41720.2	41720.2	0.12%	25.38	0.28	25.67	33.08	30	4	58.75	TCLSLT
ABB0218_6-12	12	6	18	37568.2	37568.2	0.28%	13.05	0.35	13.40	134.60	44	6	148.00	TCLSLT
ABB0318_6-12	12	6	18	38932.8	38932.8	0.02%	12.25	0.25	12.50	15.05	30	4	27.56	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%	7.84	0.16	8.00	12.61	38	5	20.61	TCLSLT
ABB0518_6-12	12	6	18	41016.7	41016.7	0.08%	12.50	0.50	13.01	36.89	30	4	49.90	TCLSLT
ABB0618_6-12	12	6	18	37907.8	37907.8	0.18%	17.41	0.20	17.62	96.88	52	7	114.50	TCLSLT
ABB0718_6-12	12	6	18	42284.2	42284.2	0.39%	20.69	0.21	20.91	186.12	60	8	207.03	TCLSLT
ABB0818_6-12	12	6	18	40322.8	40322.8	0.56%	25.97	0.24	26.20	289.30	60	8	315.51	TCLSLT
ABB0918_6-12	12	6	18	41855.4	41855.4	0.27%	23.99	0.24	24.23	127.70	52	7	151.93	TCLSLT
ABB006_6-25	25	6	6	25932.1	25932.1	0.08%	3.18	0.11	3.29	31.28	20	4	34.57	TCLSLT
ABB016_6-25	25	6	6	25667.4	25667.4	0.27%	3.02	0.11	3.14	35.61	20	4	38.75	TCLSLT
ABB026_6-25	25	6	6	26965.5	26965.5	0.08%	2.13	0.08	2.21	7.22	20	4	9.44	TCLSLT
ABB036_6-25	25	6	6	27206.7	27206.7	0.23%	4.03	0.05	4.09	31.22	15	3	35.31	TCLSLT
ABB046_6-25	25	6	6	28820.1	28820.1	0.21%	4.19	0.14	4.33	36.30	15	3	40.63	TCLSLT
ABB056_6-25	25	6	6	26531.0	26531.0	0.08%	2.99	0.07	3.06	18.75	15	3	21.81	TCLSLT
ABB066_6-25	25	6	6	25479.1	25479.1	0.00%	1.78	0.09	1.87	3.43	15	3	5.30	TCLSLT
ABB076_6-25	25	6	6	28155.1	28155.1	0.07%	3.04	0.06	3.10	5.74	20	4	8.84	TCLSLT
ABB086_6-25	25	6	6	26890.8	26890.8	0.07%	3.51	0.10	3.62	28.16	15	3	31.78	TCLSLT
ABB096_6-25	25	6	6	26571.2	26571.2	0.00%	3.04	0.12	3.16	3.36	15	3	6.53	TCLSLT
ABB0012_6-25	25	6	12	52879.8	52879.8	0.31%	10.89	0.14	11.03	104.34	29	5	115.37	TCLSLT
ABB0112_6-25	25	6	12	53096.5	53096.5	0.30%	12.68	0.57	13.25	115.21	23	4	128.46	TCLSLT
ABB0212_6-25	25	6	12	54293.3	54293.3	0.12%	8.39	0.15	8.54	48.91	23	4	57.45	TCLSLT
ABB0312_6-25	25	6	12	53128.2	53128.2	0.42%	15.42	0.33	15.75	246.47	35	6	262.22	TCLSLT
ABB0412_6-25	25	6	12	56456.2	56456.2	0.25%	12.77	0.20	12.97	198.21	34	6	211.18	TCLSLT
ABB0512_6-25	25	6	12	52152.2	52152.2	0.20%	13.22	0.19	13.42	121.15	46	8	134.57	TCLSLT
ABB0612_6-25	25	6	12	51221.9	51221.9	0.00%	6.20	0.16	6.37	36.48	46	8	42.86	TCLSLT
ABB0712_6-25	25	6	12	53112.2	53112.2	0.15%	15.86	0.17	16.04	121.88	40	7	137.92	TCLSLT
ABB0812_6-25	25	6	12	51566.5	51566.5	0.14%	10.20	0.45	10.66	82.18	40	7	92.84	TCLSLT
ABB0912_6-25	25	6	12	54000.6	54000.6	0.12%	11.30	0.22	11.53	119.59	51	9	131.11	TCLSLT
ABB0018_6-25	25	6	18	77141.8	77141.8	0.34%	30.59	0.41	31.01	229.59	30	4	260.60	TCLSLT
ABB0118_6-25	25	6	18	80007.5	80007.5	0.26%	26.13	0.47	26.60	239.03	30	4	265.63	TCLSLT
ABB0218_6-25	25	6	18	82243.7	82243.7	0.23%	29.39	0.36	29.76	215.10	30	4	244.86	TCLSLT
ABB0318_6-25	25	6	18	80896.2	80896.2	0.55%	35.48	0.41	35.90	597.74	62	8	633.64	TCLSLT
ABB0418_6-25	25	6	18	85540.5	85540.5	0.21%	25.75	0.34	26.09	253.60	30	4	279.70	TCLSLT
ABB0518_6-25	25	6	18	81527.9	81527.9	0.24%	22.40	0.57	22.98	289.43	46	6	312.42	TCLSLT
ABB0618_6-25	25	6	18	76562.2	76562.2	0.02%	11.68	0.27	11.96	50.96	30	4	62.92	TCLSLT
ABB0718_6-25	25	6	18	78310.5	78310.5	0.23%	32.34	0.34	32.69	262.14	38	5	294.83	TCLSLT
ABB0818_6-25	25	6	18	75631.2	75631.2	0.16%	18.47	0.35	18.84	131.38	30	4	150.22	TCLSLT
ABB0918_6-25	25	6	18	81836.1	81836.1	0.15%	23.67	0.44	24.12	204.56	38	5	228.68	TCLSLT
ABB006_6-50	50	6	6	50831.8	50831.8	0.06%	5.27	0.54	5.82	26.94	15	3	32.77	TCLSLT
ABB016_6-50	50	6	6	50971.6	50971.6	0.10%	4.14	0.14	4.29	29.61	10	2	33.91	TCLSLT
ABB026_6-50	50	6	6	52527.7	52527.7	0.10%	5.32	0.13	5.46	48.25	20	4	53.71	TCLSLT
ABB036_6-50	50	6	6	51905.6	51905.6	0.02%	3.73	0.11	3.85	18.14	15	3	21.99	TCLSLT
ABB046_6-50	50	6	6	54381.9	54381.9	0.13%	6.23	0.38	6.61	64.68	20	4	71.29	TCLSLT
ABB056_6-50	50	6	6	53099.3	53099.3	0.10%	4.68	0.21	4.89	33.00	20	4	37.89	TCLSLT
ABB066_6-50	50	6	6	52477.0	52477.0	0.24%	5.49	0.13	5.63	57.24	15	3	62.87	TCLSLT
ABB076_6-50	50	6	6	54130.4	54130.4	0.00%	3.67	0.08	3.75	6.02	20	4	9.77	TCLSLT
ABB086_6-50	50	6	6	51235.2	51235.2	0.08%	3.97	0.14	4.12	54.81	25	5	58.93	TCLSLT
ABB096_6-50	50	6	6	50934.3	50934.3	0.12%	3.88	0.16	4.05	31.24	15	3	35.29	TCLSLT
ABB0012_6-50	50	6	12	102828.0	102828.0	0.09%	16.60	0.31	16.91	131.39	35	6	148.31	TCLSLT
ABB0112_6-50	50	6	12	101937.4	101937.4	0.10%	24.49	0.32	24.82	112.76	29	5	137.59	TCLSLT
ABB0212_6-50	50	6	12	105745.0	105745.0	0.17%	16.14	0.35	16.50	380.49	52	9	396.99	TCLSLT
ABB0312_6-50	50	6	12	102997.4	102997.4	0.09%	17.15	0.24	17.40	111.93	23	4	129.33	TCLSLT
ABB0412_6-50	50	6	12	110383.1	110383.1	0.18%	25.87	0.70	26.57	160.88	23	4	187.45	TCLSLT
ABB0512_6-50	50	6	12	105918.0	105918.0	0.11%	14.92	0.41	15.34	106.39	34	6	121.73	TCLSLT
ABB0612_6-50	50	6	12	102990.7	103019.0	0.31%	21.38	0.38	21.77	178.07	23	4	199.84	TCLSLT
ABB0712_6-50	50	6	12	107860.1	107860.1	0.07%	13.20	0.25	13.46	138.29	23	4	151.75	TCLSLT
ABB0812_6-50	50	6	12	100309.4	100309.4	0.12%	14.19	0.37	14.57	119.42	29	5	133.99	TCLSLT
ABB0912_6-50	50	6	12	102782.7	102782.7	0.11%	15.85	0.46	16.32	128.36	34	6	144.68	TCLSLT
ABB0018_6-50	50	6	18	153546.6	153546.6	0.15%	43.86	0.59	44.46	271.08	30	4	315.55	TCLSLT

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Tabela IV - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG_{time}	TH_{time}	Heur. Const.	FO_{tempo}	FO_{iter}	FO_{rounds}	Tempo Total	Classe
ABB0118_6-50	50	6	18	151589.5	151589.5	0.10%	51.04	1.14	52.19	396.75	68	9	448.95	TCLSLT
ABB0218_6-50	50	6	18	155267.3	155267.3	0.15%	38.88	0.38	39.27	260.27	30	4	299.55	TCLSLT
ABB0318_6-50	50	6	18	154853.5	154853.5	0.13%	38.20	1.05	39.26	431.71	52	7	470.97	TCLSLT
ABB0418_6-50	50	6	18	165842.5	165842.5	0.21%	48.27	0.60	48.88	368.98	38	5	417.86	TCLSLT
ABB0518_6-50	50	6	18	156200.0	156200.0	0.22%	41.35	0.65	42.01	566.54	68	9	608.56	TCLSLT
ABB0618_6-50	50	6	18	155495.8	155495.8	0.23%	58.11	1.06	59.18	347.95	38	5	407.14	TCLSLT
ABB0718_6-50	50	6	18	159484.5	159484.5	0.07%	31.11	0.52	31.65	139.06	22	3	170.71	TCLSLT
ABB0818_6-50	50	6	18	151749.4	151749.4	0.15%	32.17	0.91	33.10	297.43	38	5	330.54	TCLSLT
ABB0918_6-50	50	6	18	154654.8	154654.8	0.09%	32.59	0.59	33.18	334.07	44	6	367.27	TCLSLT

Tabela V: Resultados por instância ($m/r/n$) - RF&FO

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6		13492.3	0.00%			0.18	0.05	5	1	0.24	NCHSHT
NAA016_2-6	6	2	6		10970.8	1.17%			0.13	0.05	5	1	0.19	NCHSHT
NAA026_2-6	6	2	6		14513.2	1.63%			0.12	0.06	5	1	0.19	NCHSHT
NAA036_2-6	6	2	6		15158.0	3.73%			0.11	0.06	5	1	0.18	NCHSHT
NAA046_2-6	6	2	6		15408.5	0.14%			0.16	0.22	10	2	0.38	NCHSHT
NAA056_2-6	6	2	6		16805.7	3.94%			0.23	0.09	5	1	0.33	NCHSHT
NAA066_2-6	6	2	6		15770.2	2.81%			0.21	0.08	5	1	0.29	NCHSHT
NAA076_2-6	6	2	6		16133.3	0.10%			0.14	0.09	5	1	0.23	NCHSHT
NAA086_2-6	6	2	6		12947.8	2.39%			0.10	0.08	10	2	0.18	NCHSHT
NAA096_2-6	6	2	6		12725.7	0.24%			0.15	0.10	10	2	0.26	NCHSHT
NAA0012_2-6	6	2	12		24027.8	1.05%			0.26	0.45	12	2	0.71	NCHSHT
NAA0112_2-6	6	2	12		23426.9	2.20%			0.36	0.45	12	2	0.82	NCHSHT
NAA0212_2-6	6	2	12		26354.7	0.46%			0.27	0.17	6	1	0.45	NCHSHT
NAA0312_2-6	6	2	12		26030.1	0.92%			0.23	0.34	18	3	0.57	NCHSHT
NAA0412_2-6	6	2	12		25687.6	0.87%			0.28	0.17	6	1	0.45	NCHSHT
NAA0512_2-6	6	2	12		30616.6	2.70%			0.30	0.45	12	2	0.76	NCHSHT
NAA0612_2-6	6	2	12		27274.1	1.06%			0.29	0.49	18	3	0.78	NCHSHT
NAA0712_2-6	6	2	12		26541.9	0.36%			0.25	0.12	6	1	0.38	NCHSHT
NAA0812_2-6	6	2	12		21716.8	0.38%			0.18	0.62	30	5	0.80	NCHSHT
NAA0912_2-6	6	2	12		26636.2	1.58%			0.28	0.37	12	2	0.66	NCHSHT
NAA0018_2-6	6	2	18		32367.3	0.25%			0.76	1.64	32	4	2.41	NCHSHT
NAA0118_2-6	6	2	18		33188.0	0.72%			0.86	2.51	32	4	3.37	NCHSHT
NAA0218_2-6	6	2	18		38682.9	0.29%			0.65	2.01	48	6	2.67	NCHSHT
NAA0318_2-6	6	2	18		39144.6	0.26%			0.51	0.95	24	3	1.46	NCHSHT
NAA0418_2-6	6	2	18		36318.5	1.75%			0.66	1.63	32	4	2.30	NCHSHT
NAA0518_2-6	6	2	18		41792.1	0.99%			0.63	1.34	24	3	1.98	NCHSHT
NAA0618_2-6	6	2	18		38129.1	0.38%			0.46	0.85	24	3	1.32	NCHSHT
NAA0718_2-6	6	2	18		38243.9	0.32%			0.54	0.46	16	2	1.00	NCHSHT
NAA0818_2-6	6	2	18		31578.6	1.04%			0.42	0.89	24	3	1.31	NCHSHT
NAA0918_2-6	6	2	18		35563.9	1.15%			0.46	0.62	24	3	1.09	NCHSHT
NAA006_2-12	12	2	6		20950.5	0.25%			0.19	0.13	10	2	0.32	NCHSHT
NAA016_2-12	12	2	6		23669.7	0.01%			0.22	0.06	5	1	0.28	NCHSHT
NAA026_2-12	12	2	6		24727.2	0.00%			0.25	0.26	10	2	0.52	NCHSHT
NAA036_2-12	12	2	6		29108.8	0.51%			0.18	0.08	5	1	0.26	NCHSHT
NAA046_2-12	12	2	6		24836.4	0.16%			0.25	0.07	5	1	0.32	NCHSHT
NAA056_2-12	12	2	6		28616.4	0.35%			0.32	0.08	5	1	0.41	NCHSHT
NAA066_2-12	12	2	6		24960.3	0.38%			0.23	0.16	5	1	0.39	NCHSHT
NAA076_2-12	12	2	6		25224.9	0.89%			0.13	0.11	5	1	0.24	NCHSHT
NAA086_2-12	12	2	6		22960.3	0.32%			0.22	0.18	10	2	0.40	NCHSHT
NAA096_2-12	12	2	6		26830.0	1.22%			0.23	0.12	5	1	0.35	NCHSHT
NAA0012_2-12	12	2	12		40976.2	1.42%			0.47	0.42	12	2	0.89	NCHSHT
NAA0112_2-12	12	2	12		41427.0	0.35%			0.40	0.42	12	2	0.83	NCHSHT
NAA0212_2-12	12	2	12		43358.8	0.80%			0.51	0.55	12	2	1.08	NCHSHT
NAA0312_2-12	12	2	12		52978.2	1.03%			0.49	0.50	12	2	1.00	NCHSHT
NAA0412_2-12	12	2	12		45604.0	1.60%			0.59	1.02	18	3	1.62	NCHSHT
NAA0512_2-12	12	2	12		51585.8	0.36%			0.93	1.41	18	3	2.35	NCHSHT
NAA0612_2-12	12	2	12		45757.0	1.91%			0.44	0.35	6	1	0.79	NCHSHT
NAA0712_2-12	12	2	12		46758.8	0.20%			0.36	0.24	12	2	0.61	NCHSHT
NAA0812_2-12	12	2	12		41666.2	0.34%			0.28	0.40	12	2	0.68	NCHSHT
NAA0912_2-12	12	2	12		50121.7	1.03%			1.18	1.49	18	3	2.68	NCHSHT
NAA0018_2-12	12	2	18		59830.2	0.19%			0.81	2.18	24	3	3.00	NCHSHT
NAA0118_2-12	12	2	18		61478.9	0.23%			1.34	3.70	40	5	5.03	NCHSHT
NAA0218_2-12	12	2	18		64744.6	0.35%			1.18	1.45	16	2	2.63	NCHSHT
NAA0318_2-12	12	2	18		75137.2	0.67%			1.11	3.34	32	4	4.46	NCHSHT
NAA0418_2-12	12	2	18		67486.7	0.72%			1.57	7.02	48	6	8.59	NCHSHT
NAA0518_2-12	12	2	18		74171.6	0.97%			1.73	19.18	24	3	20.91	NCHSHT
NAA0618_2-12	12	2	18		65032.9	0.24%			2.05	3.23	24	3	5.28	NCHSHT
NAA0718_2-12	12	2	18		67496.1	0.27%			0.74	1.19	24	3	1.92	NCHSHT
NAA0818_2-12	12	2	18		64382.1	0.65%			0.93	2.62	32	4	3.55	NCHSHT
NAA0918_2-12	12	2	18		72389.9	0.51%			1.76	2.20	24	3	3.96	NCHSHT
NAA006_2-25	25	2	6		47811.0	0.34%			0.63	0.11	5	1	0.74	NCHSHT
NAA016_2-25	25	2	6		48793.3	0.25%			0.54	0.38	10	2	0.92	NCHSHT
NAA026_2-25	25	2	6		50916.9	0.28%			0.38	0.94	20	4	1.33	NCHSHT
NAA036_2-25	25	2	6		52969.7	0.59%			0.45	0.21	5	1	0.66	NCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_2-25	25	2	6		53946.7	0.76%			0.84	1.18	15	3	2.02	NCHSHT
NAA056_2-25	25	2	6		56702.8	0.55%			0.75	0.50	10	2	1.25	NCHSHT
NAA066_2-25	25	2	6		46381.4	0.93%			0.28	0.24	5	1	0.52	NCHSHT
NAA076_2-25	25	2	6		51401.4	0.14%			0.41	1.11	20	4	1.52	NCHSHT
NAA086_2-25	25	2	6		54132.4	0.52%			0.51	0.49	10	2	1.01	NCHSHT
NAA096_2-25	25	2	6		59317.1	0.64%			0.49	0.25	10	2	0.75	NCHSHT
NAA0012_2-25	25	2	12		89049.5	0.67%			2.10	2.44	18	3	4.55	NCHSHT
NAA0112_2-25	25	2	12		94121.6	0.39%			2.78	5.79	18	3	8.58	NCHSHT
NAA0212_2-25	25	2	12		91076.2	0.90%			4.01	1.19	12	2	5.20	NCHSHT
NAA0312_2-25	25	2	12		94675.6	0.49%			1.67	3.25	18	3	4.93	NCHSHT
NAA0412_2-25	25	2	12		93446.4	0.63%			2.66	1.57	12	2	4.23	NCHSHT
NAA0512_2-25	25	2	12		106346.8	0.91%			5.98	9.97	24	4	15.95	NCHSHT
NAA0612_2-25	25	2	12		90072.1	0.34%			1.18	1.54	12	2	2.72	NCHSHT
NAA0712_2-25	25	2	12		96365.6	0.54%			3.09	4.01	18	3	7.10	NCHSHT
NAA0812_2-25	25	2	12		98659.5	0.80%			3.95	6.49	24	4	10.44	NCHSHT
NAA0912_2-25	25	2	12		103851.4	0.78%			3.37	2.37	12	2	5.74	NCHSHT
NAA0018_2-25	25	2	18		129111.1	0.29%			5.17	21.98	40	5	27.15	NCHSHT
NAA0118_2-25	25	2	18		133053.2	0.44%			3.42	8.62	24	3	12.04	NCHSHT
NAA0218_2-25	25	2	18		130959.2	0.92%			13.08	27.86	24	3	40.94	NCHSHT
NAA0318_2-25	25	2	18		142292.2	0.22%			4.54	13.65	24	3	18.20	NCHSHT
NAA0418_2-25	25	2	18		137941.6	1.21%			5.40	14.20	24	3	19.60	NCHSHT
NAA0518_2-25	25	2	18		148721.3	0.35%			16.88	29.15	40	5	46.04	NCHSHT
NAA0618_2-25	25	2	18		127177.8	0.35%			3.61	11.74	32	4	15.36	NCHSHT
NAA0718_2-25	25	2	18		141339.9	0.75%			16.43	24.99	24	3	41.42	NCHSHT
NAA0818_2-25	25	2	18		139456.2	0.34%			7.00	16.11	24	3	23.11	NCHSHT
NAA0918_2-25	25	2	18		148616.0	0.61%			9.57	38.12	32	4	47.69	NCHSHT
NAA006_2-50	50	2	6		94266.9	0.28%			0.66	0.91	10	2	1.57	NCHSHT
NAA016_2-50	50	2	6		98103.0	0.21%			0.51	1.17	15	3	1.69	NCHSHT
NAA026_2-50	50	2	6		94569.5	0.15%			1.24	0.41	5	1	1.66	NCHSHT
NAA036_2-50	50	2	6		102753.1	0.26%			0.69	1.41	15	3	2.10	NCHSHT
NAA046_2-50	50	2	6		106854.9	0.31%			2.87	1.41	10	2	4.27	NCHSHT
NAA056_2-50	50	2	6		104523.3	0.12%			1.37	1.22	15	3	2.59	NCHSHT
NAA066_2-50	50	2	6		94559.0	0.14%			0.75	0.47	10	2	1.23	NCHSHT
NAA076_2-50	50	2	6		101674.7	0.28%			2.42	1.19	10	2	3.61	NCHSHT
NAA086_2-50	50	2	6		99649.8	0.07%			1.80	1.15	15	3	2.94	NCHSHT
NAA096_2-50	50	2	6		103138.8	0.30%			0.79	0.89	10	2	1.69	NCHSHT
NAA0012_2-50	50	2	12		176889.4	0.33%			7.31	6.91	18	3	14.23	NCHSHT
NAA0112_2-50	50	2	12		184830.2	0.38%			2.59	9.60	12	2	12.19	NCHSHT
NAA0212_2-50	50	2	12		176612.9	0.24%			6.75	6.72	24	4	13.48	NCHSHT
NAA0312_2-50	50	2	12		190616.4	0.56%			3.45	3.80	12	2	7.25	NCHSHT
NAA0412_2-50	50	2	12		195199.6	0.61%			12.45	41.42	24	4	53.86	NCHSHT
NAA0512_2-50	50	2	12		193206.7	0.34%			5.94	22.35	24	4	28.29	NCHSHT
NAA0612_2-50	50	2	12		174947.0	0.50%			5.10	6.11	18	3	11.20	NCHSHT
NAA0712_2-50	50	2	12		184488.2	0.33%			8.31	23.90	18	3	32.21	NCHSHT
NAA0812_2-50	50	2	12		179761.5	0.34%			6.77	9.68	18	3	16.45	NCHSHT
NAA0912_2-50	50	2	12		191027.4	0.71%			8.94	14.60	18	3	23.54	NCHSHT
NAA0018_2-50	50	2	18		259720.7	0.28%			7.37	31.23	32	4	38.60	NCHSHT
NAA0118_2-50	50	2	18		268234.5	0.23%			8.30	9.18	24	3	17.48	NCHSHT
NAA0218_2-50	50	2	18		256044.3	0.21%			22.91	32.79	24	3	55.70	NCHSHT
NAA0318_2-50	50	2	18		279362.9	0.22%			15.40	32.69	32	4	48.09	NCHSHT
NAA0418_2-50	50	2	18		283809.8	0.43%			33.66	126.88	40	5	160.53	NCHSHT
NAA0518_2-50	50	2	18		283074.8	0.25%			17.49	41.65	32	4	59.13	NCHSHT
NAA0618_2-50	50	2	18		256517.7	0.30%			13.43	33.95	24	3	47.38	NCHSHT
NAA0718_2-50	50	2	18		269373.8	0.31%			26.30	68.71	24	3	95.01	NCHSHT
NAA0818_2-50	50	2	18		263387.7	0.25%			9.00	42.57	32	4	51.58	NCHSHT
NAA0918_2-50	50	2	18		277745.9	0.31%			19.31	47.71	24	3	67.02	NCHSHT
NAA006_4-6	6	4	6		9647.2	3.85%			0.12	0.09	5	1	0.21	NCHSHT
NAA016_4-6	6	4	6		11294.6	1.73%			0.18	0.12	5	1	0.30	NCHSHT
NAA026_4-6	6	4	6		11626.9	0.00%			0.13	0.05	5	1	0.19	NCHSHT
NAA036_4-6	6	4	6		12353.1	1.66%			0.08	0.08	10	2	0.16	NCHSHT
NAA046_4-6	6	4	6		10204.3	4.52%			0.10	0.05	5	1	0.14	NCHSHT
NAA056_4-6	6	4	6		14835.8	0.00%			0.07	0.05	5	1	0.11	NCHSHT
NAA066_4-6	6	4	6		11845.5	1.74%			0.12	0.10	5	1	0.23	NCHSHT
NAA076_4-6	6	4	6		12938.4	0.00%			0.06	0.03	5	1	0.10	NCHSHT
NAA086_4-6	6	4	6		9737.2	0.61%			0.08	0.10	10	2	0.19	NCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_4-6	6	4	6		14272.2	0.00%			0.12	0.03	5	1	0.16	NCHSHT
NAA0012_4-6	6	4	12		17382.7	0.93%			0.36	0.67	18	3	1.03	NCHSHT
NAA0112_4-6	6	4	12		23616.7	0.58%			0.54	0.42	6	1	0.96	NCHSHT
NAA0212_4-6	6	4	12		21983.1	0.23%			0.28	0.13	6	1	0.41	NCHSHT
NAA0312_4-6	6	4	12		24584.1	1.20%			0.21	0.23	12	2	0.45	NCHSHT
NAA0412_4-6	6	4	12		22152.6	1.73%			0.40	0.64	12	2	1.03	NCHSHT
NAA0512_4-6	6	4	12		29259.6	1.19%			0.19	0.39	18	3	0.58	NCHSHT
NAA0612_4-6	6	4	12		20720.9	0.73%			0.20	0.12	6	1	0.31	NCHSHT
NAA0712_4-6	6	4	12		23877.0	1.58%			0.34	0.51	18	3	0.85	NCHSHT
NAA0812_4-6	6	4	12		19269.4	1.74%			0.22	0.67	18	3	0.89	NCHSHT
NAA0912_4-6	6	4	12		25488.8	0.59%			0.29	0.58	30	5	0.87	NCHSHT
NAA0018_4-6	6	4	18		26664.5	0.30%			0.92	0.93	16	2	1.86	NCHSHT
NAA0118_4-6	6	4	18		31920.3	0.06%			1.09	0.85	16	2	1.94	NCHSHT
NAA0218_4-6	6	4	18		31767.0	0.49%			0.76	0.97	16	2	1.73	NCHSHT
NAA0318_4-6	6	4	18		36778.2	0.14%			0.47	0.58	16	2	1.05	NCHSHT
NAA0418_4-6	6	4	18		33461.4	1.18%			1.53	1.96	32	4	3.49	NCHSHT
NAA0518_4-6	6	4	18		41448.9	0.82%			0.59	0.53	16	2	1.12	NCHSHT
NAA0618_4-6	6	4	18		32149.3	0.00%			0.61	0.85	24	3	1.46	NCHSHT
NAA0718_4-6	6	4	18		35366.2	0.45%			0.62	0.48	16	2	1.10	NCHSHT
NAA0818_4-6	6	4	18		27295.2	0.39%			0.55	0.54	16	2	1.09	NCHSHT
NAA0918_4-6	6	4	18		37472.2	0.51%			0.70	0.60	16	2	1.30	NCHSHT
NAA006_4-12	12	4	6		20004.6	1.35%			0.59	0.23	5	1	0.82	NCHSHT
NAA016_4-12	12	4	6		23313.2	1.93%			0.44	0.15	5	1	0.59	NCHSHT
NAA026_4-12	12	4	6		18460.2	0.06%			0.17	0.13	10	2	0.30	NCHSHT
NAA036_4-12	12	4	6		20397.7	1.08%			0.31	0.25	10	2	0.56	NCHSHT
NAA046_4-12	12	4	6		22944.8	1.58%			0.30	0.27	10	2	0.56	NCHSHT
NAA056_4-12	12	4	6		23920.0	1.36%			0.44	0.13	5	1	0.57	NCHSHT
NAA066_4-12	12	4	6		21024.7	2.17%			0.15	0.13	10	2	0.29	NCHSHT
NAA076_4-12	12	4	6		20969.6	1.04%			0.23	0.12	5	1	0.36	NCHSHT
NAA086_4-12	12	4	6		22331.0	0.00%			0.21	0.21	10	2	0.42	NCHSHT
NAA096_4-12	12	4	6		22032.4	3.09%			0.22	0.10	5	1	0.32	NCHSHT
NAA0012_4-12	12	4	12		36242.0	1.52%			0.58	0.81	12	2	1.39	NCHSHT
NAA0112_4-12	12	4	12		40694.3	0.64%			3.14	3.73	24	4	6.87	NCHSHT
NAA0212_4-12	12	4	12		36926.0	0.24%			0.93	0.53	12	2	1.46	NCHSHT
NAA0312_4-12	12	4	12		40129.3	1.03%			0.65	0.62	6	1	1.27	NCHSHT
NAA0412_4-12	12	4	12		41872.0	0.43%			2.81	0.78	12	2	3.59	NCHSHT
NAA0512_4-12	12	4	12		45480.5	1.43%			0.80	1.41	18	3	2.22	NCHSHT
NAA0612_4-12	12	4	12		39353.2	1.59%			0.48	0.69	18	3	1.18	NCHSHT
NAA0712_4-12	12	4	12		41543.7	0.29%			2.57	1.08	18	3	3.66	NCHSHT
NAA0812_4-12	12	4	12		41392.3	0.48%			0.53	0.55	18	3	1.07	NCHSHT
NAA0912_4-12	12	4	12		43957.8	0.99%			0.65	0.97	12	2	1.62	NCHSHT
NAA0018_4-12	12	4	18		54416.1	1.03%			1.44	4.74	24	3	6.18	NCHSHT
NAA0118_4-12	12	4	18		59319.8	0.47%			6.59	7.44	32	4	14.03	NCHSHT
NAA0218_4-12	12	4	18		53517.9	0.22%			1.52	1.69	16	2	3.22	NCHSHT
NAA0318_4-12	12	4	18		61213.7	1.11%			1.84	4.55	24	3	6.39	NCHSHT
NAA0418_4-12	12	4	18		61995.4	1.21%			7.26	16.28	24	3	23.54	NCHSHT
NAA0518_4-12	12	4	18		65765.2	1.09%			4.10	8.50	32	4	12.60	NCHSHT
NAA0618_4-12	12	4	18		58615.3	0.61%			1.55	2.11	24	3	3.66	NCHSHT
NAA0718_4-12	12	4	18		63783.9	0.59%			9.61	17.01	32	4	26.62	NCHSHT
NAA0818_4-12	12	4	18		62931.4	0.63%			1.44	1.86	24	3	3.30	NCHSHT
NAA0918_4-12	12	4	18		62914.5	0.96%			3.00	1.67	16	2	4.67	NCHSHT
NAA006_4-25	25	4	6		37052.0	0.12%			0.64	0.45	10	2	1.09	NCHSHT
NAA016_4-25	25	4	6		45142.1	0.30%			1.04	0.73	10	2	1.77	NCHSHT
NAA026_4-25	25	4	6		42834.7	1.10%			3.31	2.10	10	2	5.41	NCHSHT
NAA036_4-25	25	4	6		42387.6	0.90%			0.78	0.37	5	1	1.16	NCHSHT
NAA046_4-25	25	4	6		42999.4	0.40%			0.63	0.24	5	1	0.86	NCHSHT
NAA056_4-25	25	4	6		46972.1	0.10%			0.85	0.67	15	3	1.52	NCHSHT
NAA066_4-25	25	4	6		38182.1	1.30%			0.78	1.09	20	4	1.87	NCHSHT
NAA076_4-25	25	4	6		42982.8	0.60%			1.60	0.40	10	2	2.00	NCHSHT
NAA086_4-25	25	4	6		39754.1	0.58%			0.67	0.68	15	3	1.35	NCHSHT
NAA096_4-25	25	4	6		45992.2	1.56%			0.50	0.45	5	1	0.95	NCHSHT
NAA0012_4-25	25	4	12		74841.1	0.46%			3.47	7.57	30	5	11.04	NCHSHT
NAA0112_4-25	25	4	12		82693.1	0.66%			5.60	20.82	30	5	26.42	NCHSHT
NAA0212_4-25	25	4	12		78468.7	0.98%			7.77	19.30	18	3	27.07	NCHSHT
NAA0312_4-25	25	4	12		83019.4	0.42%			2.98	4.02	12	2	7.00	NCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_4-25	25	4	12		83559.5	0.56%			2.18	1.22	12	2	3.40	NCHSHT
NAA0512_4-25	25	4	12		86506.8	0.60%			4.62	15.10	18	3	19.72	NCHSHT
NAA0612_4-25	25	4	12		73530.4	0.24%			2.87	13.16	24	4	16.04	NCHSHT
NAA0712_4-25	25	4	12		83569.1	0.61%			5.78	15.08	18	3	20.85	NCHSHT
NAA0812_4-25	25	4	12		78121.0	0.50%			5.06	17.79	12	2	22.85	NCHSHT
NAA0912_4-25	25	4	12		84795.1	0.81%			4.90	7.95	24	4	12.85	NCHSHT
NAA0018_4-25	25	4	18		108898.1	0.57%			6.79	25.73	24	3	32.51	NCHSHT
NAA0118_4-25	25	4	18		120881.6	0.76%			18.53	45.02	24	3	63.55	NCHSHT
NAA0218_4-25	25	4	18		116942.0	0.79%			22.40	77.70	40	5	100.10	NCHSHT
NAA0318_4-25	25	4	18		121712.3	0.84%			11.11	32.77	24	3	43.89	NCHSHT
NAA0418_4-25	25	4	18		123936.5	0.61%			10.74	32.59	40	5	43.34	NCHSHT
NAA0518_4-25	25	4	18		125353.3	0.50%			12.98	11.26	24	3	24.24	NCHSHT
NAA0618_4-25	25	4	18		110746.7	0.44%			5.89	7.92	24	3	13.81	NCHSHT
NAA0718_4-25	25	4	18		122502.6	0.77%			12.80	22.79	24	3	35.59	NCHSHT
NAA0818_4-25	25	4	18		112406.4	0.43%			15.86	17.84	16	2	33.70	NCHSHT
NAA0918_4-25	25	4	18		124410.9	0.44%			8.32	12.89	24	3	21.20	NCHSHT
NAA006_4-50	50	4	6		81090.8	0.71%			4.01	1.58	10	2	5.59	NCHSHT
NAA016_4-50	50	4	6		84137.2	0.75%			2.23	1.71	15	3	3.94	NCHSHT
NAA026_4-50	50	4	6		85867.8	0.30%			2.31	8.19	15	3	10.49	NCHSHT
NAA036_4-50	50	4	6		86626.9	0.34%			1.57	3.07	10	2	4.63	NCHSHT
NAA046_4-50	50	4	6		92859.2	0.49%			2.16	2.71	15	3	4.87	NCHSHT
NAA056_4-50	50	4	6		87613.6	0.38%			5.35	0.66	5	1	6.01	NCHSHT
NAA066_4-50	50	4	6		79004.9	0.19%			1.46	0.71	10	2	2.17	NCHSHT
NAA076_4-50	50	4	6		82519.4	0.19%			1.05	1.49	5	1	2.54	NCHSHT
NAA086_4-50	50	4	6		82682.5	0.58%			1.45	0.48	5	1	1.93	NCHSHT
NAA096_4-50	50	4	6		93802.4	0.27%			3.15	1.49	10	2	4.64	NCHSHT
NAA0012_4-50	50	4	12		158661.3	0.29%			16.01	33.47	18	3	49.48	NCHSHT
NAA0112_4-50	50	4	12		156593.6	0.19%			18.00	18.81	18	3	36.82	NCHSHT
NAA0212_4-50	50	4	12		158142.1	0.53%			11.47	59.92	36	6	71.39	NCHSHT
NAA0312_4-50	50	4	12		165387.5	0.29%			9.56	18.94	18	3	28.51	NCHSHT
NAA0412_4-50	50	4	12		169970.9	0.54%			22.33	36.47	18	3	58.80	NCHSHT
NAA0512_4-50	50	4	12		164175.1	0.42%			14.44	38.21	24	4	52.65	NCHSHT
NAA0612_4-50	50	4	12		149857.7	0.18%			7.71	4.26	18	3	11.97	NCHSHT
NAA0712_4-50	50	4	12		161426.0	0.73%			17.78	35.45	18	3	53.24	NCHSHT
NAA0812_4-50	50	4	12		156548.0	0.41%			13.29	10.81	24	4	24.10	NCHSHT
NAA0912_4-50	50	4	12		172208.4	0.36%			13.10	9.58	18	3	22.68	NCHSHT
NAA0018_4-50	50	4	18		227500.0	0.31%			18.51	65.61	40	5	84.12	NCHSHT
NAA0118_4-50	50	4	18		231975.5	0.37%			19.98	64.85	40	5	84.83	NCHSHT
NAA0218_4-50	50	4	18		236504.3	0.31%			30.67	88.22	40	5	118.89	NCHSHT
NAA0318_4-50	50	4	18		242563.7	0.35%			19.41	58.03	40	5	77.45	NCHSHT
NAA0418_4-50	50	4	18		252107.3	0.41%			31.15	76.19	24	3	107.33	NCHSHT
NAA0518_4-50	50	4	18		242913.2	0.26%			21.46	58.31	32	4	79.77	NCHSHT
NAA0618_4-50	50	4	18		223846.1	0.36%			14.38	24.12	24	3	38.50	NCHSHT
NAA0718_4-50	50	4	18		239643.9	0.30%			26.99	86.05	32	4	113.04	NCHSHT
NAA0818_4-50	50	4	18		226976.4	0.11%			17.68	31.24	24	3	48.92	NCHSHT
NAA0918_4-50	50	4	18		251080.8	0.30%			11.35	52.84	32	4	64.19	NCHSHT
NAA006_6-6	6	6	6		9324.7	2.78%			0.25	0.13	5	1	0.38	NCHSHT
NAA016_6-6	6	6	6		12121.1	0.00%			0.13	0.05	5	1	0.18	NCHSHT
NAA026_6-6	6	6	6		11161.7	0.00%			0.08	0.05	5	1	0.13	NCHSHT
NAA036_6-6	6	6	6		13620.8	0.00%			0.09	0.04	5	1	0.13	NCHSHT
NAA046_6-6	6	6	6		13390.7	0.29%			0.12	0.12	10	2	0.24	NCHSHT
NAA056_6-6	6	6	6		15889.6	1.60%			0.23	0.17	10	2	0.40	NCHSHT
NAA066_6-6	6	6	6		10962.7	0.00%			0.08	0.06	5	1	0.14	NCHSHT
NAA076_6-6	6	6	6		14371.7	1.98%			0.12	0.06	5	1	0.18	NCHSHT
NAA086_6-6	6	6	6		13977.1	3.76%			0.20	0.09	5	1	0.29	NCHSHT
NAA096_6-6	6	6	6		15763.6	3.89%			0.14	0.17	10	2	0.31	NCHSHT
NAA0012_6-6	6	6	12		19343.3	2.27%			0.59	0.38	6	1	0.97	NCHSHT
NAA0112_6-6	6	6	12		22754.1	0.18%			0.24	0.46	18	3	0.71	NCHSHT
NAA0212_6-6	6	6	12		23015.2	0.30%			0.53	0.21	6	1	0.74	NCHSHT
NAA0312_6-6	6	6	12		26378.5	1.21%			0.24	0.46	12	2	0.70	NCHSHT
NAA0412_6-6	6	6	12		25865.2	1.49%			0.83	0.88	12	2	1.71	NCHSHT
NAA0512_6-6	6	6	12		26942.5	0.98%			0.61	0.41	18	3	1.03	NCHSHT
NAA0612_6-6	6	6	12		22005.3	0.92%			0.75	0.53	12	2	1.28	NCHSHT
NAA0712_6-6	6	6	12		27684.7	1.71%			0.43	0.48	12	2	0.91	NCHSHT
NAA0812_6-6	6	6	12		25147.2	1.84%			0.51	0.47	12	2	0.98	NCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0912_6-6	6	6	12		28067.2	0.87%			0.23	0.20	12	2	0.43	NCHSHT
NAA0018_6-6	6	6	18		28229.5	1.01%			1.27	1.49	16	2	2.77	NCHSHT
NAA0118_6-6	6	6	18		34917.9	0.72%			1.21	1.47	24	3	2.69	NCHSHT
NAA0218_6-6	6	6	18		31419.5	0.14%			0.82	0.70	16	2	1.52	NCHSHT
NAA0318_6-6	6	6	18		36617.1	1.06%			0.74	1.37	24	3	2.11	NCHSHT
NAA0418_6-6	6	6	18		37284.7	0.76%			1.45	1.22	16	2	2.67	NCHSHT
NAA0518_6-6	6	6	18		41610.6	1.17%			1.36	1.62	24	3	2.99	NCHSHT
NAA0618_6-6	6	6	18		32508.7	0.81%			1.13	1.08	16	2	2.22	NCHSHT
NAA0718_6-6	6	6	18		39906.6	0.23%			0.89	1.35	32	4	2.23	NCHSHT
NAA0818_6-6	6	6	18		39685.4	0.73%			1.23	0.81	16	2	2.05	NCHSHT
NAA0918_6-6	6	6	18		42585.2	0.31%			1.39	0.65	16	2	2.04	NCHSHT
NAA006_6-12	12	6	6		20088.7	0.37%			0.44	0.21	5	1	0.65	NCHSHT
NAA016_6-12	12	6	6		20369.3	0.75%			0.38	0.34	5	1	0.72	NCHSHT
NAA026_6-12	12	6	6		18976.6	0.09%			0.41	0.30	10	2	0.70	NCHSHT
NAA036_6-12	12	6	6		20175.8	0.91%			0.38	0.70	20	4	1.08	NCHSHT
NAA046_6-12	12	6	6		18585.3	0.50%			0.33	0.12	5	1	0.45	NCHSHT
NAA056_6-12	12	6	6		20017.2	0.66%			0.36	0.13	5	1	0.49	NCHSHT
NAA066_6-12	12	6	6		18009.5	0.47%			0.30	0.51	10	2	0.82	NCHSHT
NAA076_6-12	12	6	6		23353.7	1.18%			0.69	1.07	15	3	1.76	NCHSHT
NAA086_6-12	12	6	6		20466.2	0.94%			0.45	0.17	5	1	0.61	NCHSHT
NAA096_6-12	12	6	6		23581.1	0.10%			0.35	0.28	10	2	0.63	NCHSHT
NAA0012_6-12	12	6	12		37468.9	0.58%			1.13	1.78	18	3	2.91	NCHSHT
NAA0112_6-12	12	6	12		39798.7	1.27%			2.02	1.14	12	2	3.16	NCHSHT
NAA0212_6-12	12	6	12		37122.6	0.81%			3.50	2.46	18	3	5.96	NCHSHT
NAA0312_6-12	12	6	12		40104.2	1.04%			3.24	5.74	18	3	8.98	NCHSHT
NAA0412_6-12	12	6	12		35831.9	1.08%			2.07	0.91	12	2	2.98	NCHSHT
NAA0512_6-12	12	6	12		41058.1	0.42%			3.61	1.19	18	3	4.81	NCHSHT
NAA0612_6-12	12	6	12		34608.7	0.94%			0.75	1.13	18	3	1.88	NCHSHT
NAA0712_6-12	12	6	12		45633.2	0.73%			5.79	2.65	18	3	8.44	NCHSHT
NAA0812_6-12	12	6	12		38120.9	0.21%			1.69	2.02	18	3	3.71	NCHSHT
NAA0912_6-12	12	6	12		43722.2	1.32%			2.40	2.89	18	3	5.29	NCHSHT
NAA0018_6-12	12	6	18		56227.0	0.92%			3.52	3.25	16	2	6.77	NCHSHT
NAA0118_6-12	12	6	18		61031.2	0.87%			3.99	2.74	16	2	6.73	NCHSHT
NAA0218_6-12	12	6	18		54900.0	0.83%			2.63	5.93	24	3	8.56	NCHSHT
NAA0318_6-12	12	6	18		57107.8	0.64%			2.05	5.36	32	4	7.41	NCHSHT
NAA0418_6-12	12	6	18		52114.4	0.03%			2.30	1.53	16	2	3.84	NCHSHT
NAA0518_6-12	12	6	18		61734.4	0.74%			1.93	2.36	16	2	4.29	NCHSHT
NAA0618_6-12	12	6	18		54158.7	0.61%			1.55	3.07	24	3	4.62	NCHSHT
NAA0718_6-12	12	6	18		66735.2	1.30%			7.13	7.72	16	2	14.85	NCHSHT
NAA0818_6-12	12	6	18		56883.3	1.32%			10.41	15.71	24	3	26.12	NCHSHT
NAA0918_6-12	12	6	18		64680.4	0.51%			5.12	6.11	24	3	11.23	NCHSHT
NAA006_6-25	25	6	6		39076.6	0.33%			3.20	0.68	10	2	3.88	NCHSHT
NAA016_6-25	25	6	6		39680.3	0.67%			2.70	0.44	5	1	3.14	NCHSHT
NAA026_6-25	25	6	6		41500.7	1.03%			0.98	0.78	10	2	1.76	NCHSHT
NAA036_6-25	25	6	6		40402.7	0.22%			1.73	3.92	10	2	5.65	NCHSHT
NAA046_6-25	25	6	6		42405.8	0.40%			2.49	2.34	15	3	4.84	NCHSHT
NAA056_6-25	25	6	6		40230.8	0.81%			1.10	0.37	5	1	1.47	NCHSHT
NAA066_6-25	25	6	6		38525.5	0.24%			1.31	0.80	10	2	2.11	NCHSHT
NAA076_6-25	25	6	6		42582.2	0.62%			0.68	0.36	5	1	1.05	NCHSHT
NAA086_6-25	25	6	6		40423.2	0.97%			2.96	0.55	10	2	3.51	NCHSHT
NAA096_6-25	25	6	6		42130.2	0.99%			1.90	0.90	10	2	2.80	NCHSHT
NAA0012_6-25	25	6	12		76525.7	0.91%			11.44	23.59	24	4	35.02	NCHSHT
NAA0112_6-25	25	6	12		79022.8	1.17%			15.45	21.90	12	2	37.35	NCHSHT
NAA0212_6-25	25	6	12		80233.8	1.25%			6.71	17.83	18	3	24.54	NCHSHT
NAA0312_6-25	25	6	12		77453.5	0.89%			16.46	31.20	30	5	47.67	NCHSHT
NAA0412_6-25	25	6	12		80787.4	1.03%			22.03	57.12	30	5	79.14	NCHSHT
NAA0512_6-25	25	6	12		76670.1	1.02%			9.33	11.90	18	3	21.23	NCHSHT
NAA0612_6-25	25	6	12		74160.2	1.00%			12.25	8.28	18	3	20.53	NCHSHT
NAA0712_6-25	25	6	12		77862.9	0.47%			4.17	5.22	18	3	9.38	NCHSHT
NAA0812_6-25	25	6	12		74897.8	0.68%			12.75	29.94	24	4	42.69	NCHSHT
NAA0912_6-25	25	6	12		82140.3	0.98%			7.54	29.85	30	5	37.39	NCHSHT
NAA0018_6-25	25	6	18		111111.3	1.01%			21.26	37.66	24	3	58.92	NCHSHT
NAA0118_6-25	25	6	18		116957.7	0.73%			15.31	34.79	24	3	50.10	NCHSHT
NAA0218_6-25	25	6	18		120234.6	0.94%			28.03	66.32	32	4	94.35	NCHSHT
NAA0318_6-25	25	6	18		116164.2	0.74%			25.71	41.69	24	3	67.40	NCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_6-25	25	6	18		120224.9	0.74%			24.08	43.74	24	3	67.82	NCHSHT
NAA0518_6-25	25	6	18		117036.8	0.44%			18.91	28.77	24	3	47.68	NCHSHT
NAA0618_6-25	25	6	18		108568.9	0.74%			17.81	55.27	32	4	73.08	NCHSHT
NAA0718_6-25	25	6	18		114810.9	0.58%			17.73	30.00	40	5	47.73	NCHSHT
NAA0818_6-25	25	6	18		108590.1	1.18%			17.14	67.35	40	5	84.49	NCHSHT
NAA0918_6-25	25	6	18		122134.8	1.07%			20.78	52.64	32	4	73.42	NCHSHT
NAA006_6-50	50	6	6		74099.2	0.23%			2.29	1.62	15	3	3.90	NCHSHT
NAA016_6-50	50	6	6		76415.1	0.56%			3.26	2.21	15	3	5.47	NCHSHT
NAA026_6-50	50	6	6		78963.2	0.38%			9.54	3.22	10	2	12.77	NCHSHT
NAA036_6-50	50	6	6		77586.6	0.13%			7.94	2.27	5	1	10.20	NCHSHT
NAA046_6-50	50	6	6		79578.3	0.28%			14.63	8.77	20	4	23.41	NCHSHT
NAA056_6-50	50	6	6		80143.4	0.49%			15.23	4.29	10	2	19.52	NCHSHT
NAA066_6-50	50	6	6		77117.5	0.79%			17.19	17.55	10	2	34.74	NCHSHT
NAA076_6-50	50	6	6		81160.3	0.40%			4.61	9.69	10	2	14.30	NCHSHT
NAA086_6-50	50	6	6		75785.1	0.32%			8.64	2.04	10	2	10.68	NCHSHT
NAA096_6-50	50	6	6		76959.7	0.36%			6.68	1.21	5	1	7.89	NCHSHT
NAA0012_6-50	50	6	12		144772.9	0.29%			14.45	23.96	18	3	38.42	NCHSHT
NAA0112_6-50	50	6	12		147993.4	0.55%			12.45	34.82	18	3	47.28	NCHSHT
NAA0212_6-50	50	6	12		152307.2	0.44%			18.71	41.35	18	3	60.07	NCHSHT
NAA0312_6-50	50	6	12		151275.8	0.60%			15.18	33.72	18	3	48.90	NCHSHT
NAA0412_6-50	50	6	12		157660.9	0.54%			15.20	26.93	18	3	42.13	NCHSHT
NAA0512_6-50	50	6	12		154481.7	0.90%			15.27	57.82	24	4	73.09	NCHSHT
NAA0612_6-50	50	6	12		145955.7	0.52%			15.52	54.60	24	4	70.12	NCHSHT
NAA0712_6-50	50	6	12		156195.5	0.37%			12.62	17.83	18	3	30.45	NCHSHT
NAA0812_6-50	50	6	12		142503.4	0.25%			16.67	38.34	30	5	55.01	NCHSHT
NAA0912_6-50	50	6	12		149797.7	0.43%			14.93	55.64	30	5	70.57	NCHSHT
NAA0018_6-50	50	6	18		214683.2	0.30%			15.78	42.43	24	3	58.20	NCHSHT
NAA0118_6-50	50	6	18		216659.3	0.33%			17.83	85.50	48	6	103.33	NCHSHT
NAA0218_6-50	50	6	18		222020.1	0.28%			34.83	69.25	32	4	104.08	NCHSHT
NAA0318_6-50	50	6	18		224469.6	0.38%			29.94	68.61	32	4	98.55	NCHSHT
NAA0418_6-50	50	6	18		234193.3	0.31%			31.06	77.78	32	4	108.84	NCHSHT
NAA0518_6-50	50	6	18		223772.1	0.45%			28.48	119.49	40	5	147.97	NCHSHT
NAA0618_6-50	50	6	18		217257.5	0.47%			43.73	112.07	32	4	155.79	NCHSHT
NAA0718_6-50	50	6	18		229381.2	0.39%			29.33	111.77	56	7	141.10	NCHSHT
NAA0818_6-50	50	6	18		213196.5	0.24%			23.54	39.30	24	3	62.85	NCHSHT
NAA0918_6-50	50	6	18		223170.1	0.38%			20.74	54.45	32	4	75.20	NCHSHT
NAB006_2-6	6	2	6		14599.9	3.92%			0.17	0.18	10	2	0.36	NCHSLT
NAB016_2-6	6	2	6		11153.9	1.64%			0.17	0.05	5	1	0.22	NCHSLT
NAB026_2-6	6	2	6		15057.4	3.15%			0.12	0.04	5	1	0.17	NCHSLT
NAB036_2-6	6	2	6		15129.6	1.02%			0.09	0.12	10	2	0.21	NCHSLT
NAB046_2-6	6	2	6		16891.4	2.84%			0.15	0.28	10	2	0.43	NCHSLT
NAB056_2-6	6	2	6		16930.2	2.20%			0.16	0.04	5	1	0.20	NCHSLT
NAB066_2-6	6	2	6		15888.8	0.00%			0.12	0.06	5	1	0.18	NCHSLT
NAB076_2-6	6	2	6		16644.2	1.09%			0.13	0.08	5	1	0.21	NCHSLT
NAB086_2-6	6	2	6		13018.1	1.28%			0.11	0.13	5	1	0.24	NCHSLT
NAB096_2-6	6	2	6		12883.1	0.00%			0.18	0.08	10	2	0.25	NCHSLT
NAB0012_2-6	6	2	12		24963.9	2.72%			0.28	0.96	24	4	1.24	NCHSLT
NAB0112_2-6	6	2	12		24101.8	3.23%			0.40	0.46	12	2	0.85	NCHSLT
NAB0212_2-6	6	2	12		27487.7	2.74%			0.25	0.31	12	2	0.56	NCHSLT
NAB0312_2-6	6	2	12		26832.6	0.00%			0.13	0.08	6	1	0.22	NCHSLT
NAB0412_2-6	6	2	12		27459.5	1.99%			0.38	0.64	18	3	1.02	NCHSLT
NAB0512_2-6	6	2	12		31117.9	0.87%			0.32	0.26	12	2	0.58	NCHSLT
NAB0612_2-6	6	2	12		28466.6	1.59%			0.30	0.36	12	2	0.65	NCHSLT
NAB0712_2-6	6	2	12		27263.4	1.26%			0.20	0.08	6	1	0.28	NCHSLT
NAB0812_2-6	6	2	12		22043.0	0.19%			0.19	0.14	12	2	0.34	NCHSLT
NAB0912_2-6	6	2	12		27164.6	0.64%			0.18	0.14	6	1	0.32	NCHSLT
NAB0018_2-6	6	2	18		33738.2	1.86%			0.81	2.08	24	3	2.90	NCHSLT
NAB0118_2-6	6	2	18		33918.4	1.21%			0.74	1.27	24	3	2.01	NCHSLT
NAB0218_2-6	6	2	18		39819.4	1.13%			0.53	0.57	16	2	1.10	NCHSLT
NAB0318_2-6	6	2	18		10000000.0	200.00%			0.04	0.00	0	0	0.04	NCHSLT
NAB0418_2-6	6	2	18		37005.9	0.87%			0.78	1.79	32	4	2.57	NCHSLT
NAB0518_2-6	6	2	18		42522.5	0.27%			0.47	0.59	16	2	1.07	NCHSLT
NAB0618_2-6	6	2	18		39234.3	1.19%			0.52	1.64	32	4	2.16	NCHSLT
NAB0718_2-6	6	2	18		39071.1	0.66%			0.45	0.84	24	3	1.30	NCHSLT
NAB0818_2-6	6	2	18		31858.3	0.79%			0.34	0.58	24	3	0.92	NCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_2-6	6	2	18		36238.4	0.55%			0.42	0.59	16	2	1.01	NCHSLT
NAB006_2-12	12	2	6		21833.2	0.20%			0.22	0.21	10	2	0.43	NCHSLT
NAB016_2-12	12	2	6		24309.6	0.00%			0.38	0.29	10	2	0.67	NCHSLT
NAB026_2-12	12	2	6		25621.5	0.47%			0.27	0.34	10	2	0.61	NCHSLT
NAB036_2-12	12	2	6		29638.0	1.09%			0.28	0.44	20	4	0.72	NCHSLT
NAB046_2-12	12	2	6		25227.2	0.06%			0.26	0.08	5	1	0.34	NCHSLT
NAB056_2-12	12	2	6		29552.7	1.70%			0.26	0.42	10	2	0.68	NCHSLT
NAB066_2-12	12	2	6		25758.4	1.37%			0.21	0.26	10	2	0.47	NCHSLT
NAB076_2-12	12	2	6		25442.6	0.00%			0.24	0.07	5	1	0.31	NCHSLT
NAB086_2-12	12	2	6		23303.5	0.00%			0.18	0.07	5	1	0.25	NCHSLT
NAB096_2-12	12	2	6		27763.0	1.89%			0.28	0.23	5	1	0.51	NCHSLT
NAB0012_2-12	12	2	12		41930.5	1.91%			0.61	0.71	12	2	1.33	NCHSLT
NAB0112_2-12	12	2	12		41918.9	0.75%			0.50	0.20	6	1	0.70	NCHSLT
NAB0212_2-12	12	2	12		44215.4	0.52%			0.57	1.45	18	3	2.02	NCHSLT
NAB0312_2-12	12	2	12		53291.8	0.55%			0.55	0.58	12	2	1.12	NCHSLT
NAB0412_2-12	12	2	12		45675.2	1.29%			0.53	0.65	12	2	1.18	NCHSLT
NAB0512_2-12	12	2	12		52626.2	0.85%			0.94	0.63	12	2	1.57	NCHSLT
NAB0612_2-12	12	2	12		46127.7	0.87%			0.53	1.31	24	4	1.84	NCHSLT
NAB0712_2-12	12	2	12		47882.6	0.71%			0.38	0.21	6	1	0.60	NCHSLT
NAB0812_2-12	12	2	12		42035.1	0.40%			0.40	0.37	12	2	0.77	NCHSLT
NAB0912_2-12	12	2	12		51203.4	1.32%			2.16	2.19	24	4	4.35	NCHSLT
NAB0018_2-12	12	2	18		60967.1	0.26%			1.18	4.15	40	5	5.33	NCHSLT
NAB0118_2-12	12	2	18		62223.7	0.45%			2.12	1.68	16	2	3.80	NCHSLT
NAB0218_2-12	12	2	18		65643.1	0.67%			1.65	3.10	24	3	4.75	NCHSLT
NAB0318_2-12	12	2	18		76284.6	1.30%			0.95	3.09	24	3	4.04	NCHSLT
NAB0418_2-12	12	2	18		67865.4	0.57%			1.50	1.72	24	3	3.22	NCHSLT
NAB0518_2-12	12	2	18		75027.3	1.53%			2.45	5.05	24	3	7.50	NCHSLT
NAB0618_2-12	12	2	18		66823.1	1.35%			1.32	1.69	16	2	3.01	NCHSLT
NAB0718_2-12	12	2	18		68236.7	0.65%			1.27	2.37	24	3	3.65	NCHSLT
NAB0818_2-12	12	2	18		65060.1	0.35%			1.09	4.94	24	3	6.03	NCHSLT
NAB0918_2-12	12	2	18		73802.3	1.52%			5.27	7.99	24	3	13.26	NCHSLT
NAB006_2-25	25	2	6		48547.7	0.36%			0.51	0.38	5	1	0.89	NCHSLT
NAB016_2-25	25	2	6		49903.6	1.40%			0.53	0.44	10	2	0.98	NCHSLT
NAB026_2-25	25	2	6		52325.7	0.52%			0.91	0.48	10	2	1.38	NCHSLT
NAB036_2-25	25	2	6		53934.9	0.45%			0.61	0.35	10	2	0.96	NCHSLT
NAB046_2-25	25	2	6		54998.3	0.66%			0.73	0.69	10	2	1.43	NCHSLT
NAB056_2-25	25	2	6		57778.0	0.63%			0.66	0.41	5	1	1.07	NCHSLT
NAB066_2-25	25	2	6		46782.5	0.53%			0.40	0.50	15	3	0.90	NCHSLT
NAB076_2-25	25	2	6		52289.5	0.15%			0.49	0.64	10	2	1.13	NCHSLT
NAB086_2-25	25	2	6		55474.1	0.86%			0.83	0.68	10	2	1.51	NCHSLT
NAB096_2-25	25	2	6		60498.1	0.14%			1.09	0.36	5	1	1.45	NCHSLT
NAB0012_2-25	25	2	12		90195.7	1.03%			1.52	3.90	24	4	5.42	NCHSLT
NAB0112_2-25	25	2	12		95408.9	0.69%			3.43	2.21	18	3	5.64	NCHSLT
NAB0212_2-25	25	2	12		92120.6	0.78%			1.36	3.62	18	3	4.99	NCHSLT
NAB0312_2-25	25	2	12		96115.0	1.13%			4.30	2.30	12	2	6.60	NCHSLT
NAB0412_2-25	25	2	12		95068.0	0.91%			3.23	0.59	6	1	3.82	NCHSLT
NAB0512_2-25	25	2	12		107625.3	0.85%			9.60	15.01	24	4	24.62	NCHSLT
NAB0612_2-25	25	2	12		91021.2	0.35%			2.43	1.23	12	2	3.67	NCHSLT
NAB0712_2-25	25	2	12		97103.1	0.73%			3.70	5.12	18	3	8.82	NCHSLT
NAB0812_2-25	25	2	12		100072.4	1.25%			4.73	4.44	18	3	9.18	NCHSLT
NAB0912_2-25	25	2	12		104908.7	0.79%			5.76	7.05	24	4	12.82	NCHSLT
NAB0018_2-25	25	2	18		130212.2	0.59%			5.37	15.10	32	4	20.47	NCHSLT
NAB0118_2-25	25	2	18		133930.7	0.56%			6.16	12.12	32	4	18.27	NCHSLT
NAB0218_2-25	25	2	18		132075.5	0.89%			11.98	11.27	16	2	23.25	NCHSLT
NAB0318_2-25	25	2	18		143407.5	0.29%			11.07	34.86	32	4	45.93	NCHSLT
NAB0418_2-25	25	2	18		138848.1	0.98%			6.81	20.38	24	3	27.19	NCHSLT
NAB0518_2-25	25	2	18		150658.3	0.83%			11.74	16.46	24	3	28.20	NCHSLT
NAB0618_2-25	25	2	18		128385.5	0.49%			3.68	6.53	16	2	10.21	NCHSLT
NAB0718_2-25	25	2	18		143148.7	1.01%			12.66	56.65	24	3	69.32	NCHSLT
NAB0818_2-25	25	2	18		140517.6	0.49%			6.29	27.96	32	4	34.25	NCHSLT
NAB0918_2-25	25	2	18		150848.8	1.17%			8.93	18.41	16	2	27.34	NCHSLT
NAB006_2-50	50	2	6		96136.6	0.93%			1.23	3.03	10	2	4.26	NCHSLT
NAB016_2-50	50	2	6		99472.6	0.55%			1.03	1.34	10	2	2.38	NCHSLT
NAB026_2-50	50	2	6		96483.4	0.40%			2.39	1.42	10	2	3.81	NCHSLT
NAB036_2-50	50	2	6		104324.7	0.29%			0.82	0.81	10	2	1.63	NCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_2-50	50	2	6		109719.3	0.49%			2.54	2.87	15	3	5.42	NCHSLT
NAB056_2-50	50	2	6		107368.4	0.23%			0.99	3.67	15	3	4.66	NCHSLT
NAB066_2-50	50	2	6		96487.9	0.10%			0.82	0.39	5	1	1.21	NCHSLT
NAB076_2-50	50	2	6		103603.3	0.28%			1.92	5.47	15	3	7.39	NCHSLT
NAB086_2-50	50	2	6		101387.0	0.36%			1.09	0.50	5	1	1.58	NCHSLT
NAB096_2-50	50	2	6		105213.2	0.25%			0.94	1.83	15	3	2.77	NCHSLT
NAB0012_2-50	50	2	12		178299.3	0.28%			5.66	17.78	24	4	23.44	NCHSLT
NAB0112_2-50	50	2	12		185985.8	0.34%			5.76	7.52	24	4	13.28	NCHSLT
NAB0212_2-50	50	2	12		178793.3	0.35%			9.28	20.98	24	4	30.26	NCHSLT
NAB0312_2-50	50	2	12		191432.9	0.32%			5.88	14.07	30	5	19.96	NCHSLT
NAB0412_2-50	50	2	12		198692.1	1.01%			24.68	54.95	18	3	79.63	NCHSLT
NAB0512_2-50	50	2	12		195200.2	0.32%			7.37	7.53	18	3	14.91	NCHSLT
NAB0612_2-50	50	2	12		176488.6	0.54%			7.02	10.66	18	3	17.67	NCHSLT
NAB0712_2-50	50	2	12		187426.5	0.52%			11.52	19.02	18	3	30.55	NCHSLT
NAB0812_2-50	50	2	12		181421.0	0.33%			13.99	15.05	24	4	29.04	NCHSLT
NAB0912_2-50	50	2	12		192567.9	0.39%			9.27	39.24	24	4	48.51	NCHSLT
NAB0018_2-50	50	2	18		260956.1	0.26%			16.79	23.15	24	3	39.94	NCHSLT
NAB0118_2-50	50	2	18		269473.6	0.28%			13.62	49.30	24	3	62.92	NCHSLT
NAB0218_2-50	50	2	18		258367.3	0.20%			24.78	61.32	32	4	86.10	NCHSLT
NAB0318_2-50	50	2	18		281378.3	0.41%			23.22	67.64	32	4	90.86	NCHSLT
NAB0418_2-50	50	2	18		288127.6	0.55%			47.17	154.10	40	5	201.27	NCHSLT
NAB0518_2-50	50	2	18		285643.9	0.41%			21.84	72.65	32	4	94.49	NCHSLT
NAB0618_2-50	50	2	18		258583.5	0.51%			20.11	46.00	24	3	66.11	NCHSLT
NAB0718_2-50	50	2	18		271937.6	0.42%			29.02	110.65	32	4	139.68	NCHSLT
NAB0818_2-50	50	2	18		265302.3	0.55%			18.31	51.21	24	3	69.51	NCHSLT
NAB0918_2-50	50	2	18		280742.2	0.39%			33.86	90.01	32	4	123.87	NCHSLT
NAB006_4-6	6	4	6		9833.9	1.77%			0.15	0.09	5	1	0.23	NCHSLT
NAB016_4-6	6	4	6		12040.2	0.00%			0.25	0.17	5	1	0.42	NCHSLT
NAB026_4-6	6	4	6		12245.0	1.74%			0.15	0.09	5	1	0.23	NCHSLT
NAB036_4-6	6	4	6		12746.7	1.04%			0.12	0.12	10	2	0.24	NCHSLT
NAB046_4-6	6	4	6		11030.1	2.22%			0.14	0.10	5	1	0.25	NCHSLT
NAB056_4-6	6	4	6		15475.7	0.62%			0.09	0.05	5	1	0.14	NCHSLT
NAB066_4-6	6	4	6		12613.1	1.86%			0.18	0.09	5	1	0.27	NCHSLT
NAB076_4-6	6	4	6		14024.2	0.58%			0.09	0.17	10	2	0.26	NCHSLT
NAB086_4-6	6	4	6		10123.3	1.74%			0.10	0.10	10	2	0.20	NCHSLT
NAB096_4-6	6	4	6		14712.1	0.00%			0.14	0.14	10	2	0.28	NCHSLT
NAB0012_4-6	6	4	12		17882.4	0.01%			0.41	0.31	12	2	0.72	NCHSLT
NAB0112_4-6	6	4	12		25413.7	1.24%			0.79	1.01	12	2	1.80	NCHSLT
NAB0212_4-6	6	4	12		23308.0	0.58%			0.50	0.79	18	3	1.29	NCHSLT
NAB0312_4-6	6	4	12		26139.1	2.04%			0.33	0.21	12	2	0.54	NCHSLT
NAB0412_4-6	6	4	12		24176.3	2.67%			0.52	0.63	12	2	1.15	NCHSLT
NAB0512_4-6	6	4	12		30693.5	1.39%			0.26	0.23	12	2	0.49	NCHSLT
NAB0612_4-6	6	4	12		22224.2	1.35%			0.26	0.35	12	2	0.61	NCHSLT
NAB0712_4-6	6	4	12		24839.3	1.08%			0.37	0.47	18	3	0.84	NCHSLT
NAB0812_4-6	6	4	12		21053.3	0.01%			0.45	0.91	18	3	1.36	NCHSLT
NAB0912_4-6	6	4	12		26231.3	1.23%			0.23	0.37	18	3	0.60	NCHSLT
NAB0018_4-6	6	4	18		27633.2	0.50%			1.04	1.06	16	2	2.10	NCHSLT
NAB0118_4-6	6	4	18		33351.1	0.23%			1.04	1.56	24	3	2.60	NCHSLT
NAB0218_4-6	6	4	18		33452.0	0.41%			1.33	1.97	32	4	3.30	NCHSLT
NAB0318_4-6	6	4	18		39592.9	1.64%			1.02	1.13	16	2	2.16	NCHSLT
NAB0418_4-6	6	4	18		35624.7	1.74%			1.04	1.76	24	3	2.80	NCHSLT
NAB0518_4-6	6	4	18		43580.7	1.26%			0.65	0.84	16	2	1.49	NCHSLT
NAB0618_4-6	6	4	18		34723.7	1.69%			0.72	1.36	24	3	2.08	NCHSLT
NAB0718_4-6	6	4	18		37427.3	0.44%			1.03	1.04	16	2	2.07	NCHSLT
NAB0818_4-6	6	4	18		28291.8	0.87%			0.69	0.99	24	3	1.68	NCHSLT
NAB0918_4-6	6	4	18		38245.0	0.25%			0.73	0.55	16	2	1.28	NCHSLT
NAB006_4-12	12	4	6		20658.5	1.05%			0.42	0.82	15	3	1.24	NCHSLT
NAB016_4-12	12	4	6		24037.9	1.47%			0.99	0.44	5	1	1.43	NCHSLT
NAB026_4-12	12	4	6		18954.2	0.86%			0.25	0.17	10	2	0.42	NCHSLT
NAB036_4-12	12	4	6		20768.7	0.17%			0.25	0.16	10	2	0.42	NCHSLT
NAB046_4-12	12	4	6		23522.7	2.17%			0.44	0.41	10	2	0.85	NCHSLT
NAB056_4-12	12	4	6		24567.4	1.54%			0.24	0.34	10	2	0.58	NCHSLT
NAB066_4-12	12	4	6		21822.3	2.39%			0.17	0.38	10	2	0.55	NCHSLT
NAB076_4-12	12	4	6		21666.0	0.29%			0.50	0.26	5	1	0.76	NCHSLT
NAB086_4-12	12	4	6		22682.9	0.06%			0.26	0.19	10	2	0.44	NCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB09_4-12	12	4	6		22805.1	1.65%			0.74	0.36	10	2	1.09	NCHSLT
NAB0012_4-12	12	4	12		36655.1	0.17%			1.62	5.81	24	4	7.43	NCHSLT
NAB0112_4-12	12	4	12		41959.1	1.50%			1.63	4.11	12	2	5.75	NCHSLT
NAB0212_4-12	12	4	12		37812.3	1.02%			0.90	1.42	12	2	2.32	NCHSLT
NAB0312_4-12	12	4	12		41639.2	1.62%			2.11	1.91	18	3	4.02	NCHSLT
NAB0412_4-12	12	4	12		43013.0	1.19%			1.62	1.26	12	2	2.88	NCHSLT
NAB0512_4-12	12	4	12		46748.6	1.70%			1.10	0.93	18	3	2.03	NCHSLT
NAB0612_4-12	12	4	12		40441.1	0.82%			0.43	0.42	6	1	0.85	NCHSLT
NAB0712_4-12	12	4	12		43601.2	2.18%			9.89	13.73	18	3	23.62	NCHSLT
NAB0812_4-12	12	4	12		42332.0	1.12%			0.52	0.66	12	2	1.18	NCHSLT
NAB0912_4-12	12	4	12		45664.8	1.93%			1.94	20.79	24	4	22.73	NCHSLT
NAB0018_4-12	12	4	18		54771.1	0.54%			1.85	7.15	40	5	8.99	NCHSLT
NAB0118_4-12	12	4	18		61448.3	1.63%			11.32	28.24	24	3	39.56	NCHSLT
NAB0218_4-12	12	4	18		53878.0	0.00%			1.18	1.62	24	3	2.81	NCHSLT
NAB0318_4-12	12	4	18		63364.5	2.02%			5.79	8.15	24	3	13.94	NCHSLT
NAB0418_4-12	12	4	18		63656.5	1.59%			9.16	31.62	24	3	40.79	NCHSLT
NAB0518_4-12	12	4	18		68170.3	2.24%			6.41	12.99	32	4	19.40	NCHSLT
NAB0618_4-12	12	4	18		60027.1	0.76%			2.65	3.36	24	3	6.01	NCHSLT
NAB0718_4-12	12	4	18		66386.7	1.44%			16.03	12.49	16	2	28.53	NCHSLT
NAB0818_4-12	12	4	18		63795.4	0.49%			5.60	14.94	48	6	20.54	NCHSLT
NAB0918_4-12	12	4	18		64903.0	1.99%			12.18	10.44	32	4	22.62	NCHSLT
NAB006_4-25	25	4	6		38101.5	0.87%			1.43	0.79	10	2	2.22	NCHSLT
NAB016_4-25	25	4	6		46428.6	0.76%			0.99	0.35	5	1	1.34	NCHSLT
NAB026_4-25	25	4	6		43690.0	0.42%			2.52	0.38	5	1	2.90	NCHSLT
NAB036_4-25	25	4	6		43572.1	0.66%			5.33	0.41	5	1	5.75	NCHSLT
NAB046_4-25	25	4	6		44404.1	0.32%			1.49	1.48	10	2	2.97	NCHSLT
NAB056_4-25	25	4	6		48260.5	0.40%			1.01	0.26	5	1	1.27	NCHSLT
NAB066_4-25	25	4	6		38930.5	1.26%			0.84	0.65	10	2	1.48	NCHSLT
NAB076_4-25	25	4	6		44151.6	0.86%			2.89	0.62	5	1	3.51	NCHSLT
NAB086_4-25	25	4	6		40507.2	0.19%			1.02	0.32	5	1	1.35	NCHSLT
NAB096_4-25	25	4	6		47006.3	1.45%			2.02	1.31	10	2	3.34	NCHSLT
NAB0012_4-25	25	4	12		76009.0	1.04%			4.47	5.06	12	2	9.53	NCHSLT
NAB0112_4-25	25	4	12		84174.3	0.97%			15.66	50.85	30	5	66.51	NCHSLT
NAB0212_4-25	25	4	12		80417.9	1.54%			21.59	22.30	12	2	43.88	NCHSLT
NAB0312_4-25	25	4	12		84273.1	0.80%			5.80	17.20	18	3	23.00	NCHSLT
NAB0412_4-25	25	4	12		85146.4	1.14%			10.49	18.42	12	2	28.91	NCHSLT
NAB0512_4-25	25	4	12		87800.1	0.60%			13.30	39.78	24	4	53.08	NCHSLT
NAB0612_4-25	25	4	12		74729.4	0.63%			2.68	6.67	24	4	9.35	NCHSLT
NAB0712_4-25	25	4	12		84944.0	1.12%			8.74	22.09	18	3	30.83	NCHSLT
NAB0812_4-25	25	4	12		79384.7	0.80%			7.76	4.78	18	3	12.54	NCHSLT
NAB0912_4-25	25	4	12		85597.4	0.76%			3.99	11.51	24	4	15.50	NCHSLT
NAB0018_4-25	25	4	18		109896.8	0.60%			15.90	45.89	32	4	61.79	NCHSLT
NAB0118_4-25	25	4	18		122555.6	1.13%			33.20	73.70	24	3	106.91	NCHSLT
NAB0218_4-25	25	4	18		118945.3	1.34%			33.52	52.88	16	2	86.40	NCHSLT
NAB0318_4-25	25	4	18		123175.3	1.12%			14.92	20.23	16	2	35.15	NCHSLT
NAB0418_4-25	25	4	18		125589.4	1.07%			18.41	33.62	24	3	52.03	NCHSLT
NAB0518_4-25	25	4	18		127177.9	0.73%			16.06	35.44	24	3	51.50	NCHSLT
NAB0618_4-25	25	4	18		111534.5	0.60%			6.08	20.69	24	3	26.77	NCHSLT
NAB0718_4-25	25	4	18		123575.8	0.79%			16.32	56.15	40	5	72.47	NCHSLT
NAB0818_4-25	25	4	18		113363.1	0.55%			14.41	33.77	24	3	48.19	NCHSLT
NAB0918_4-25	25	4	18		125568.6	0.70%			13.01	37.36	24	3	50.37	NCHSLT
NAB006_4-50	50	4	6		81972.3	0.37%			2.13	3.07	15	3	5.20	NCHSLT
NAB016_4-50	50	4	6		85223.2	0.32%			7.48	1.40	5	1	8.88	NCHSLT
NAB026_4-50	50	4	6		87507.2	0.59%			14.39	4.41	10	2	18.80	NCHSLT
NAB036_4-50	50	4	6		88553.8	0.68%			5.45	3.08	15	3	8.53	NCHSLT
NAB046_4-50	50	4	6		95102.1	0.79%			7.75	22.18	15	3	29.93	NCHSLT
NAB056_4-50	50	4	6		89828.3	0.60%			7.71	3.20	10	2	10.91	NCHSLT
NAB066_4-50	50	4	6		80353.3	0.55%			2.40	1.82	10	2	4.21	NCHSLT
NAB076_4-50	50	4	6		84055.2	0.33%			7.58	4.51	15	3	12.10	NCHSLT
NAB086_4-50	50	4	6		84543.1	0.79%			8.69	4.74	10	2	13.44	NCHSLT
NAB096_4-50	50	4	6		94785.2	0.21%			8.45	3.57	10	2	12.01	NCHSLT
NAB0012_4-50	50	4	12		160550.3	0.50%			23.96	83.83	30	5	107.80	NCHSLT
NAB0112_4-50	50	4	12		158082.9	0.35%			16.74	16.10	24	4	32.85	NCHSLT
NAB0212_4-50	50	4	12		159838.6	0.64%			20.81	37.47	18	3	58.28	NCHSLT
NAB0312_4-50	50	4	12		167216.7	0.56%			14.98	45.17	18	3	60.16	NCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_4-50	50	4	12		172644.2	0.88%			28.15	123.32	42	7	151.46	NCHSLT
NAB0512_4-50	50	4	12		166123.6	0.70%			18.95	24.52	18	3	43.47	NCHSLT
NAB0612_4-50	50	4	12		151013.3	0.38%			10.95	18.91	18	3	29.86	NCHSLT
NAB0712_4-50	50	4	12		163910.4	1.07%			28.14	41.73	24	4	69.86	NCHSLT
NAB0812_4-50	50	4	12		158433.6	0.73%			24.85	37.64	18	3	62.49	NCHSLT
NAB0912_4-50	50	4	12		173306.0	0.45%			14.76	29.19	24	4	43.95	NCHSLT
NAB0018_4-50	50	4	18		229289.0	0.45%			25.80	69.35	32	4	95.15	NCHSLT
NAB0118_4-50	50	4	18		233561.5	0.45%			41.35	66.06	24	3	107.42	NCHSLT
NAB0218_4-50	50	4	18		239259.7	0.54%			52.10	107.21	32	4	159.31	NCHSLT
NAB0318_4-50	50	4	18		243885.4	0.29%			29.22	95.60	40	5	124.83	NCHSLT
NAB0418_4-50	50	4	18		254642.5	0.55%			50.37	159.87	48	6	210.24	NCHSLT
NAB0518_4-50	50	4	18		245261.5	0.52%			37.11	121.62	40	5	158.72	NCHSLT
NAB0618_4-50	50	4	18		224993.5	0.40%			19.34	34.05	24	3	53.39	NCHSLT
NAB0718_4-50	50	4	18		242012.7	0.47%			42.52	200.05	48	6	242.56	NCHSLT
NAB0818_4-50	50	4	18		229147.3	0.54%			34.89	53.88	24	3	88.77	NCHSLT
NAB0918_4-50	50	4	18		252122.1	0.21%			25.71	102.76	40	5	128.46	NCHSLT
NAB006_6-6	6	6	6		9968.3	2.08%			0.32	0.19	5	1	0.51	NCHSLT
NAB016_6-6	6	6	6		13674.2	1.58%			0.15	0.09	5	1	0.24	NCHSLT
NAB026_6-6	6	6	6		12313.0	0.00%			0.13	0.04	5	1	0.17	NCHSLT
NAB036_6-6	6	6	6		14265.2	1.76%			0.09	0.06	5	1	0.14	NCHSLT
NAB046_6-6	6	6	6		14501.9	2.75%			0.24	0.17	5	1	0.40	NCHSLT
NAB056_6-6	6	6	6		17336.7	1.81%			0.14	0.25	15	3	0.39	NCHSLT
NAB066_6-6	6	6	6		12086.6	2.59%			0.23	0.25	10	2	0.48	NCHSLT
NAB076_6-6	6	6	6		15746.1	1.13%			0.16	0.10	5	1	0.26	NCHSLT
NAB086_6-6	6	6	6		15323.2	2.07%			0.17	0.23	10	2	0.39	NCHSLT
NAB096_6-6	6	6	6		16643.4	0.95%			0.13	0.10	5	1	0.23	NCHSLT
NAB0012_6-6	6	6	12		20396.7	1.07%			0.82	0.96	12	2	1.78	NCHSLT
NAB0112_6-6	6	6	12		25335.4	0.25%			0.54	0.33	6	1	0.87	NCHSLT
NAB0212_6-6	6	6	12		24612.1	1.04%			0.38	0.19	6	1	0.57	NCHSLT
NAB0312_6-6	6	6	12		27541.5	0.19%			0.23	0.26	12	2	0.49	NCHSLT
NAB0412_6-6	6	6	12		27344.1	0.13%			0.53	0.94	24	4	1.47	NCHSLT
NAB0512_6-6	6	6	12		30485.0	3.03%			0.98	0.56	18	3	1.55	NCHSLT
NAB0612_6-6	6	6	12		24129.2	1.38%			0.77	0.69	12	2	1.45	NCHSLT
NAB0712_6-6	6	6	12		29689.1	2.03%			0.53	0.53	12	2	1.05	NCHSLT
NAB0812_6-6	6	6	12		27640.1	1.74%			0.68	1.09	24	4	1.77	NCHSLT
NAB0912_6-6	6	6	12		30607.3	0.43%			0.20	0.24	12	2	0.44	NCHSLT
NAB0018_6-6	6	6	18		29912.7	1.12%			1.57	2.53	24	3	4.10	NCHSLT
NAB0118_6-6	6	6	18		100000000.0	200.00%			0.08	0.00	0	0	0.08	NCHSLT
NAB0218_6-6	6	6	18		33274.0	0.70%			0.83	0.75	16	2	1.58	NCHSLT
NAB0318_6-6	6	6	18		39083.3	0.47%			1.39	1.11	24	3	2.50	NCHSLT
NAB0418_6-6	6	6	18		39852.1	0.34%			2.81	2.48	24	3	5.30	NCHSLT
NAB0518_6-6	6	6	18		45844.7	2.41%			4.93	1.05	8	1	5.97	NCHSLT
NAB0618_6-6	6	6	18		34403.2	0.55%			1.22	1.48	24	3	2.70	NCHSLT
NAB0718_6-6	6	6	18		42895.6	0.48%			1.34	0.82	16	2	2.16	NCHSLT
NAB0818_6-6	6	6	18		44451.4	2.66%			1.91	3.27	16	2	5.18	NCHSLT
NAB0918_6-6	6	6	18		47050.9	0.11%			6.07	0.99	16	2	7.06	NCHSLT
NAB006_6-12	12	6	6		20894.7	1.13%			0.56	0.76	15	3	1.32	NCHSLT
NAB016_6-12	12	6	6		21518.1	1.58%			0.80	0.59	10	2	1.39	NCHSLT
NAB026_6-12	12	6	6		20018.6	0.31%			0.40	0.15	5	1	0.55	NCHSLT
NAB036_6-12	12	6	6		20967.8	0.62%			0.40	0.12	5	1	0.52	NCHSLT
NAB046_6-12	12	6	6		19159.9	0.54%			0.29	0.27	10	2	0.56	NCHSLT
NAB056_6-12	12	6	6		20742.0	1.04%			0.32	0.26	10	2	0.58	NCHSLT
NAB066_6-12	12	6	6		18575.3	0.27%			0.34	0.18	5	1	0.52	NCHSLT
NAB076_6-12	12	6	6		24491.6	0.74%			1.28	0.37	5	1	1.65	NCHSLT
NAB086_6-12	12	6	6		21317.6	1.10%			0.46	0.36	10	2	0.81	NCHSLT
NAB096_6-12	12	6	6		24556.2	0.58%			0.32	0.27	10	2	0.59	NCHSLT
NAB0012_6-12	12	6	12		38641.0	1.20%			1.40	0.98	12	2	2.38	NCHSLT
NAB0112_6-12	12	6	12		41318.4	1.50%			1.88	1.83	12	2	3.72	NCHSLT
NAB0212_6-12	12	6	12		38978.8	1.29%			9.36	19.41	24	4	28.77	NCHSLT
NAB0312_6-12	12	6	12		41481.0	1.39%			1.72	2.60	12	2	4.32	NCHSLT
NAB0412_6-12	12	6	12		36799.3	0.51%			4.43	3.28	18	3	7.70	NCHSLT
NAB0512_6-12	12	6	12		43628.7	2.41%			1.75	3.10	18	3	4.85	NCHSLT
NAB0612_6-12	12	6	12		35128.2	0.09%			0.80	1.47	18	3	2.28	NCHSLT
NAB0712_6-12	12	6	12		48651.3	1.81%			6.97	5.17	12	2	12.14	NCHSLT
NAB0812_6-12	12	6	12		40582.7	2.11%			3.46	1.68	12	2	5.14	NCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_6-12	12	6	12		45198.5	1.40%			1.52	1.42	12	2	2.95	NCHSLT
NAB0018_6-12	12	6	18		57735.3	1.08%			4.83	3.58	16	2	8.41	NCHSLT
NAB0118_6-12	12	6	18		62945.4	0.78%			7.47	8.33	40	5	15.80	NCHSLT
NAB0218_6-12	12	6	18		57193.3	1.66%			12.26	18.63	16	2	30.89	NCHSLT
NAB0318_6-12	12	6	18		58802.1	0.86%			6.14	3.48	16	2	9.62	NCHSLT
NAB0418_6-12	12	6	18		53501.0	0.67%			2.12	2.31	16	2	4.43	NCHSLT
NAB0518_6-12	12	6	18		64126.3	1.26%			8.06	7.93	40	5	16.00	NCHSLT
NAB0618_6-12	12	6	18		55346.5	0.96%			4.59	6.84	24	3	11.43	NCHSLT
NAB0718_6-12	12	6	18		70316.8	1.52%			16.62	35.94	24	3	52.56	NCHSLT
NAB0818_6-12	12	6	18		59568.0	1.79%			9.49	8.97	32	4	18.46	NCHSLT
NAB0918_6-12	12	6	18		66715.5	0.92%			8.37	10.63	32	4	19.01	NCHSLT
NAB006_6-25	25	6	6		40264.1	0.40%			5.68	0.71	5	1	6.39	NCHSLT
NAB016_6-25	25	6	6		40878.6	1.56%			4.63	6.09	15	3	10.72	NCHSLT
NAB026_6-25	25	6	6		42478.3	0.77%			5.08	1.24	10	2	6.32	NCHSLT
NAB036_6-25	25	6	6		41543.7	0.72%			1.97	1.87	10	2	3.84	NCHSLT
NAB046_6-25	25	6	6		43766.0	0.61%			14.25	4.07	15	3	18.32	NCHSLT
NAB056_6-25	25	6	6		41292.1	1.02%			1.92	1.80	10	2	3.73	NCHSLT
NAB066_6-25	25	6	6		39859.6	0.74%			3.66	1.34	5	1	5.00	NCHSLT
NAB076_6-25	25	6	6		43571.3	0.68%			2.08	1.87	15	3	3.95	NCHSLT
NAB086_6-25	25	6	6		41749.1	0.87%			3.75	1.12	10	2	4.87	NCHSLT
NAB096_6-25	25	6	6		43627.5	1.73%			4.12	1.75	10	2	5.87	NCHSLT
NAB0012_6-25	25	6	12		78411.1	1.57%			18.17	18.42	18	3	36.59	NCHSLT
NAB0112_6-25	25	6	12		81467.6	2.09%			25.29	39.08	18	3	64.37	NCHSLT
NAB0212_6-25	25	6	12		81613.9	1.54%			14.79	21.97	18	3	36.76	NCHSLT
NAB0312_6-25	25	6	12		79128.8	1.45%			18.79	37.41	18	3	56.20	NCHSLT
NAB0412_6-25	25	6	12		82510.2	1.48%			14.63	47.95	24	4	62.58	NCHSLT
NAB0512_6-25	25	6	12		78087.5	1.24%			11.98	53.93	30	5	65.91	NCHSLT
NAB0612_6-25	25	6	12		76301.4	2.01%			14.52	28.34	12	2	42.86	NCHSLT
NAB0712_6-25	25	6	12		79317.0	1.23%			6.75	11.79	24	4	18.54	NCHSLT
NAB0812_6-25	25	6	12		77271.5	1.59%			13.54	22.13	12	2	35.67	NCHSLT
NAB0912_6-25	25	6	12		84594.8	2.01%			15.65	33.99	18	3	49.65	NCHSLT
NAB0018_6-25	25	6	18		113247.8	1.00%			33.44	43.51	24	3	76.95	NCHSLT
NAB0118_6-25	25	6	18		119013.6	1.01%			31.55	64.09	32	4	95.65	NCHSLT
NAB0218_6-25	25	6	18		122204.7	1.28%			37.70	91.88	32	4	129.58	NCHSLT
NAB0318_6-25	25	6	18		118690.3	1.46%			41.94	91.56	24	3	133.50	NCHSLT
NAB0418_6-25	25	6	18		122367.1	1.19%			35.63	41.24	16	2	76.87	NCHSLT
NAB0518_6-25	25	6	18		119286.6	1.11%			29.32	31.22	16	2	60.54	NCHSLT
NAB0618_6-25	25	6	18		110836.3	1.23%			30.51	49.34	24	3	79.86	NCHSLT
NAB0718_6-25	25	6	18		116422.1	0.91%			27.73	40.19	32	4	67.91	NCHSLT
NAB0818_6-25	25	6	18		111153.9	1.55%			29.97	56.52	24	3	86.49	NCHSLT
NAB0918_6-25	25	6	18		124612.3	1.44%			34.98	98.31	40	5	133.29	NCHSLT
NAB006_6-50	50	6	6		75708.4	0.71%			8.25	2.49	10	2	10.74	NCHSLT
NAB016_6-50	50	6	6		78442.0	0.70%			13.46	15.72	20	4	29.18	NCHSLT
NAB026_6-50	50	6	6		81135.7	0.79%			23.55	47.69	15	3	71.24	NCHSLT
NAB036_6-50	50	6	6		79193.8	0.55%			9.13	2.07	10	2	11.20	NCHSLT
NAB046_6-50	50	6	6		82050.0	1.01%			19.44	17.89	10	2	37.34	NCHSLT
NAB056_6-50	50	6	6		82661.8	0.83%			21.93	24.46	15	3	46.38	NCHSLT
NAB066_6-50	50	6	6		79244.4	0.90%			31.62	91.67	25	5	123.28	NCHSLT
NAB076_6-50	50	6	6		82709.0	0.81%			11.82	17.50	15	3	29.32	NCHSLT
NAB086_6-50	50	6	6		77749.0	0.53%			6.88	17.09	15	3	23.96	NCHSLT
NAB096_6-50	50	6	6		79092.2	1.01%			9.65	22.06	10	2	31.70	NCHSLT
NAB0012_6-50	50	6	12		146903.8	0.66%			25.97	83.39	30	5	109.35	NCHSLT
NAB0112_6-50	50	6	12		149853.6	0.68%			19.64	47.21	18	3	66.86	NCHSLT
NAB0212_6-50	50	6	12		155083.0	1.20%			32.97	114.71	30	5	147.68	NCHSLT
NAB0312_6-50	50	6	12		152993.1	0.75%			27.49	46.91	18	3	74.40	NCHSLT
NAB0412_6-50	50	6	12		159938.5	0.75%			30.75	92.50	30	5	123.25	NCHSLT
NAB0512_6-50	50	6	12		157716.1	0.91%			26.91	81.57	24	4	108.47	NCHSLT
NAB0612_6-50	50	6	12		148894.9	0.96%			41.05	102.30	24	4	143.35	NCHSLT
NAB0712_6-50	50	6	12		157663.7	0.55%			24.22	105.95	48	8	130.17	NCHSLT
NAB0812_6-50	50	6	12		144524.6	0.66%			23.75	61.45	30	5	85.20	NCHSLT
NAB0912_6-50	50	6	12		152256.9	0.78%			20.60	57.00	18	3	77.60	NCHSLT
NAB0018_6-50	50	6	18		216755.8	0.46%			42.52	113.73	32	4	156.24	NCHSLT
NAB0118_6-50	50	6	18		219683.7	0.64%			36.52	71.10	24	3	107.62	NCHSLT
NAB0218_6-50	50	6	18		224950.9	0.61%			53.65	147.26	32	4	200.91	NCHSLT
NAB0318_6-50	50	6	18		226719.1	0.52%			52.00	95.19	32	4	147.19	NCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_6-50	50	6	18		237546.7	0.75%			65.51	200.54	40	5	266.05	NCHSLT
NAB0518_6-50	50	6	18		226629.8	0.62%			50.97	95.93	32	4	146.90	NCHSLT
NAB0618_6-50	50	6	18		221144.9	0.98%			71.40	212.13	24	3	283.53	NCHSLT
NAB0718_6-50	50	6	18		231411.7	0.67%			53.38	120.82	32	4	174.20	NCHSLT
NAB0818_6-50	50	6	18		215764.4	0.50%			34.06	91.86	32	4	125.92	NCHSLT
NAB0918_6-50	50	6	18		225330.9	0.69%			45.52	135.48	32	4	181.00	NCHSLT
NBA006_2-6	6	2	6		8039.7	0.00%			0.10	0.06	5	1	0.17	NCLSHT
NBA016_2-6	6	2	6		5918.6	0.00%			0.05	0.06	10	2	0.11	NCLSHT
NBA026_2-6	6	2	6		6899.6	0.00%			0.07	0.06	5	1	0.13	NCLSHT
NBA036_2-6	6	2	6		7687.7	0.00%			0.12	0.13	10	2	0.25	NCLSHT
NBA046_2-6	6	2	6		7762.1	0.33%			0.15	0.08	5	1	0.22	NCLSHT
NBA056_2-6	6	2	6		9352.7	0.12%			0.06	0.08	10	2	0.14	NCLSHT
NBA066_2-6	6	2	6		8007.8	0.13%			0.10	0.06	5	1	0.16	NCLSHT
NBA076_2-6	6	2	6		9021.5	0.00%			0.08	0.06	5	1	0.14	NCLSHT
NBA086_2-6	6	2	6		8169.4	0.00%			0.10	0.24	15	3	0.34	NCLSHT
NBA096_2-6	6	2	6		7089.9	0.01%			0.06	0.04	5	1	0.10	NCLSHT
NBA0012_2-6	6	2	12		15351.3	0.00%			0.25	0.45	12	2	0.71	NCLSHT
NBA0112_2-6	6	2	12		13343.9	0.30%			0.23	0.26	12	2	0.50	NCLSHT
NBA0212_2-6	6	2	12		14505.0	0.00%			0.12	0.15	12	2	0.26	NCLSHT
NBA0312_2-6	6	2	12		14535.1	0.14%			0.16	0.08	6	1	0.24	NCLSHT
NBA0412_2-6	6	2	12		13508.1	0.19%			0.31	0.54	12	2	0.85	NCLSHT
NBA0512_2-6	6	2	12		17237.2	0.00%			0.17	0.20	12	2	0.36	NCLSHT
NBA0612_2-6	6	2	12		14782.5	0.08%			0.09	0.16	12	2	0.26	NCLSHT
NBA0712_2-6	6	2	12		16542.1	0.00%			0.26	0.40	12	2	0.66	NCLSHT
NBA0812_2-6	6	2	12		14120.5	0.14%			0.21	0.37	12	2	0.58	NCLSHT
NBA0912_2-6	6	2	12		16059.0	0.01%			0.13	0.17	12	2	0.29	NCLSHT
NBA0018_2-6	6	2	18		21454.7	0.00%			0.62	0.44	8	1	1.07	NCLSHT
NBA0118_2-6	6	2	18		20051.5	0.00%			0.31	0.36	16	2	0.66	NCLSHT
NBA0218_2-6	6	2	18		22230.0	0.00%			0.49	0.55	16	2	1.04	NCLSHT
NBA0318_2-6	6	2	18		22932.5	0.03%			0.45	0.23	8	1	0.68	NCLSHT
NBA0418_2-6	6	2	18		19869.9	0.09%			0.73	1.64	24	3	2.37	NCLSHT
NBA0518_2-6	6	2	18		24870.3	0.00%			0.33	0.42	16	2	0.75	NCLSHT
NBA0618_2-6	6	2	18		22620.7	0.00%			0.43	0.76	24	3	1.19	NCLSHT
NBA0718_2-6	6	2	18		24165.8	0.00%			0.67	1.08	16	2	1.74	NCLSHT
NBA0818_2-6	6	2	18		20731.3	0.02%			0.39	0.49	16	2	0.88	NCLSHT
NBA0918_2-6	6	2	18		22402.4	0.00%			0.37	0.42	16	2	0.79	NCLSHT
NBA006_2-12	12	2	6		12627.3	0.01%			0.09	0.10	10	2	0.19	NCLSHT
NBA016_2-12	12	2	6		13857.1	0.00%			0.11	0.09	5	1	0.19	NCLSHT
NBA026_2-12	12	2	6		14009.1	0.18%			0.23	0.37	15	3	0.60	NCLSHT
NBA036_2-12	12	2	6		16299.4	0.00%			0.08	0.14	10	2	0.22	NCLSHT
NBA046_2-12	12	2	6		14109.6	0.00%			0.14	0.07	5	1	0.21	NCLSHT
NBA056_2-12	12	2	6		16465.6	0.05%			0.14	0.13	10	2	0.27	NCLSHT
NBA066_2-12	12	2	6		13727.3	0.00%			0.11	0.14	10	2	0.25	NCLSHT
NBA076_2-12	12	2	6		15355.7	0.00%			0.11	0.05	5	1	0.15	NCLSHT
NBA086_2-12	12	2	6		12750.2	0.00%			0.12	0.15	10	2	0.28	NCLSHT
NBA096_2-12	12	2	6		15822.6	0.00%			0.27	0.43	10	2	0.70	NCLSHT
NBA0012_2-12	12	2	12		26009.1	0.04%			0.20	0.27	12	2	0.47	NCLSHT
NBA0112_2-12	12	2	12		27384.7	0.00%			0.25	0.32	12	2	0.56	NCLSHT
NBA0212_2-12	12	2	12		26986.7	0.20%			0.44	1.02	18	3	1.46	NCLSHT
NBA0312_2-12	12	2	12		31656.6	0.04%			0.28	0.35	12	2	0.62	NCLSHT
NBA0412_2-12	12	2	12		28154.4	0.02%			0.29	0.30	12	2	0.59	NCLSHT
NBA0512_2-12	12	2	12		31979.7	0.05%			0.31	0.15	6	1	0.46	NCLSHT
NBA0612_2-12	12	2	12		27180.2	0.17%			0.28	0.34	12	2	0.62	NCLSHT
NBA0712_2-12	12	2	12		30159.8	0.00%			0.25	0.24	12	2	0.49	NCLSHT
NBA0812_2-12	12	2	12		26608.5	0.05%			0.39	0.37	12	2	0.76	NCLSHT
NBA0912_2-12	12	2	12		30770.6	0.04%			0.70	2.14	18	3	2.83	NCLSHT
NBA0018_2-12	12	2	18		39251.5	0.00%			0.46	0.29	8	1	0.75	NCLSHT
NBA0118_2-12	12	2	18		40281.4	0.05%			0.77	0.97	16	2	1.73	NCLSHT
NBA0218_2-12	12	2	18		41233.8	0.04%			1.05	1.67	16	2	2.73	NCLSHT
NBA0318_2-12	12	2	18		46065.0	0.00%			0.67	0.79	16	2	1.47	NCLSHT
NBA0418_2-12	12	2	18		44030.3	0.00%			0.93	1.13	16	2	2.06	NCLSHT
NBA0518_2-12	12	2	18		47179.1	0.00%			0.77	1.59	24	3	2.36	NCLSHT
NBA0618_2-12	12	2	18		40478.7	0.06%			0.60	0.39	8	1	1.00	NCLSHT
NBA0718_2-12	12	2	18		45374.1	0.00%			0.58	0.75	16	2	1.32	NCLSHT
NBA0818_2-12	12	2	18		41146.4	0.07%			0.88	1.60	16	2	2.49	NCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_2-12	12	2	18		46962.7	0.19%			1.64	2.54	16	2	4.17	NCLSHT
NBA006_2-25	25	2	6		29157.3	0.12%			0.17	0.25	10	2	0.42	NCLSHT
NBA016_2-25	25	2	6		29814.3	0.09%			0.18	0.48	15	3	0.67	NCLSHT
NBA026_2-25	25	2	6		28299.5	0.03%			0.38	0.44	10	2	0.81	NCLSHT
NBA036_2-25	25	2	6		30095.2	0.06%			0.28	0.27	10	2	0.55	NCLSHT
NBA046_2-25	25	2	6		31270.2	0.01%			0.38	0.34	10	2	0.72	NCLSHT
NBA056_2-25	25	2	6		31270.5	0.04%			0.42	0.56	10	2	0.98	NCLSHT
NBA066_2-25	25	2	6		27868.8	0.00%			0.17	0.24	15	3	0.41	NCLSHT
NBA076_2-25	25	2	6		31187.6	0.07%			0.42	0.24	10	2	0.66	NCLSHT
NBA086_2-25	25	2	6		31888.7	0.03%			0.45	0.60	15	3	1.05	NCLSHT
NBA096_2-25	25	2	6		32911.6	0.01%			0.30	0.19	5	1	0.50	NCLSHT
NBA0012_2-25	25	2	12		58100.8	0.01%			0.36	0.64	18	3	1.00	NCLSHT
NBA0112_2-25	25	2	12		60809.9	0.10%			0.43	0.64	12	2	1.07	NCLSHT
NBA0212_2-25	25	2	12		56027.0	0.09%			0.84	1.07	12	2	1.92	NCLSHT
NBA0312_2-25	25	2	12		59049.2	0.03%			0.65	1.28	24	4	1.93	NCLSHT
NBA0412_2-25	25	2	12		59459.8	0.04%			1.12	1.09	18	3	2.21	NCLSHT
NBA0512_2-25	25	2	12		64723.0	0.11%			0.65	1.13	18	3	1.78	NCLSHT
NBA0612_2-25	25	2	12		57093.1	0.00%			0.31	0.45	12	2	0.76	NCLSHT
NBA0712_2-25	25	2	12		62613.1	0.03%			0.78	1.38	18	3	2.16	NCLSHT
NBA0812_2-25	25	2	12		62493.4	0.05%			1.28	2.79	24	4	4.07	NCLSHT
NBA0912_2-25	25	2	12		63812.2	0.05%			0.48	0.50	12	2	0.99	NCLSHT
NBA0018_2-25	25	2	18		86982.9	0.01%			0.70	0.85	16	2	1.55	NCLSHT
NBA0118_2-25	25	2	18		88429.1	0.01%			1.35	1.21	16	2	2.56	NCLSHT
NBA0218_2-25	25	2	18		82869.0	0.01%			2.48	3.59	24	3	6.07	NCLSHT
NBA0318_2-25	25	2	18		91133.3	0.03%			1.35	2.35	32	4	3.70	NCLSHT
NBA0418_2-25	25	2	18		90289.5	0.03%			2.25	2.66	16	2	4.91	NCLSHT
NBA0518_2-25	25	2	18		94612.7	0.01%			3.91	3.67	24	3	7.58	NCLSHT
NBA0618_2-25	25	2	18		83490.6	0.04%			0.73	0.84	16	2	1.56	NCLSHT
NBA0718_2-25	25	2	18		91886.6	0.01%			2.03	2.88	24	3	4.91	NCLSHT
NBA0818_2-25	25	2	18		91151.7	0.06%			2.08	3.88	16	2	5.96	NCLSHT
NBA0918_2-25	25	2	18		92812.9	0.01%			1.59	1.51	16	2	3.11	NCLSHT
NBA006_2-50	50	2	6		58729.3	0.04%			0.37	0.34	10	2	0.70	NCLSHT
NBA016_2-50	50	2	6		60213.7	0.01%			0.26	0.39	10	2	0.65	NCLSHT
NBA026_2-50	50	2	6		55914.1	0.12%			0.60	0.71	10	2	1.32	NCLSHT
NBA036_2-50	50	2	6		59102.9	0.07%			0.42	0.60	10	2	1.02	NCLSHT
NBA046_2-50	50	2	6		60553.1	0.03%			0.69	0.65	10	2	1.34	NCLSHT
NBA056_2-50	50	2	6		59123.4	0.01%			0.58	0.51	10	2	1.09	NCLSHT
NBA066_2-50	50	2	6		55808.0	0.01%			0.34	0.41	10	2	0.75	NCLSHT
NBA076_2-50	50	2	6		58735.5	0.00%			0.64	0.43	10	2	1.07	NCLSHT
NBA086_2-50	50	2	6		59800.6	0.04%			0.52	0.71	10	2	1.23	NCLSHT
NBA096_2-50	50	2	6		60443.4	0.01%			0.52	0.45	10	2	0.97	NCLSHT
NBA0012_2-50	50	2	12		117267.2	0.01%			0.54	0.67	12	2	1.22	NCLSHT
NBA0112_2-50	50	2	12		119775.3	0.04%			0.94	0.97	12	2	1.91	NCLSHT
NBA0212_2-50	50	2	12		113776.6	0.00%			0.95	1.88	18	3	2.83	NCLSHT
NBA0312_2-50	50	2	12		119779.7	0.07%			1.53	1.71	18	3	3.24	NCLSHT
NBA0412_2-50	50	2	12		121804.4	0.04%			1.34	2.30	18	3	3.64	NCLSHT
NBA0512_2-50	50	2	12		119071.0	0.02%			1.30	1.56	18	3	2.87	NCLSHT
NBA0612_2-50	50	2	12		113521.5	0.02%			0.77	0.77	12	2	1.54	NCLSHT
NBA0712_2-50	50	2	12		114539.9	0.05%			1.01	1.48	12	2	2.49	NCLSHT
NBA0812_2-50	50	2	12		115054.9	0.02%			1.31	2.31	18	3	3.62	NCLSHT
NBA0912_2-50	50	2	12		122216.1	0.01%			0.86	0.89	12	2	1.75	NCLSHT
NBA0018_2-50	50	2	18		175706.9	0.00%			2.08	2.78	24	3	4.86	NCLSHT
NBA0118_2-50	50	2	18		178659.1	0.00%			1.38	1.87	16	2	3.25	NCLSHT
NBA0218_2-50	50	2	18		169425.2	0.03%			5.52	3.26	16	2	8.78	NCLSHT
NBA0318_2-50	50	2	18		180874.0	0.02%			1.50	3.70	24	3	5.20	NCLSHT
NBA0418_2-50	50	2	18		181175.9	0.02%			13.70	10.44	24	3	24.14	NCLSHT
NBA0518_2-50	50	2	18		180880.3	0.01%			2.15	1.82	16	2	3.98	NCLSHT
NBA0618_2-50	50	2	18		171604.9	0.01%			2.01	2.97	24	3	4.98	NCLSHT
NBA0718_2-50	50	2	18		172240.4	0.01%			1.90	3.67	24	3	5.56	NCLSHT
NBA0818_2-50	50	2	18		173130.3	0.01%			4.21	5.76	24	3	9.97	NCLSHT
NBA0918_2-50	50	2	18		182611.8	0.01%			3.02	4.34	24	3	7.36	NCLSHT
NBA006_4-6	6	4	6		6205.6	0.00%			0.07	0.05	5	1	0.11	NCLSHT
NBA016_4-6	6	4	6		7082.0	0.00%			0.16	0.11	10	2	0.27	NCLSHT
NBA026_4-6	6	4	6		7218.7	0.00%			0.07	0.05	5	1	0.12	NCLSHT
NBA036_4-6	6	4	6		6632.3	0.20%			0.15	0.26	10	2	0.41	NCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_4-6	6	4	6		5447.3	0.31%			0.06	0.11	10	2	0.17	NCLSHT
NBA056_4-6	6	4	6		7718.5	0.23%			0.18	0.15	10	2	0.33	NCLSHT
NBA066_4-6	6	4	6		6290.8	0.37%			0.28	0.31	10	2	0.59	NCLSHT
NBA076_4-6	6	4	6		7594.9	0.00%			0.10	0.05	5	1	0.15	NCLSHT
NBA086_4-6	6	4	6		5808.7	0.29%			0.12	0.15	10	2	0.27	NCLSHT
NBA096_4-6	6	4	6		8512.1	0.35%			0.18	0.28	10	2	0.46	NCLSHT
NBA0012_4-6	6	4	12		11580.9	0.00%			0.14	0.21	12	2	0.34	NCLSHT
NBA0112_4-6	6	4	12		15083.7	0.17%			0.83	1.66	18	3	2.49	NCLSHT
NBA0212_4-6	6	4	12		14377.3	0.00%			0.29	0.15	6	1	0.43	NCLSHT
NBA0312_4-6	6	4	12		14191.9	0.00%			0.23	0.39	12	2	0.62	NCLSHT
NBA0412_4-6	6	4	12		12613.3	0.33%			0.37	0.28	6	1	0.65	NCLSHT
NBA0512_4-6	6	4	12		15641.8	0.31%			0.66	0.83	12	2	1.49	NCLSHT
NBA0612_4-6	6	4	12		12624.3	0.00%			0.23	0.14	6	1	0.37	NCLSHT
NBA0712_4-6	6	4	12		14564.3	0.21%			0.31	0.37	12	2	0.67	NCLSHT
NBA0812_4-6	6	4	12		12165.7	0.00%			0.37	0.24	6	1	0.61	NCLSHT
NBA0912_4-6	6	4	12		14719.1	0.13%			0.20	0.43	18	3	0.63	NCLSHT
NBA0018_4-6	6	4	18		18430.2	0.00%			0.54	0.85	16	2	1.39	NCLSHT
NBA0118_4-6	6	4	18		21371.3	0.23%			1.46	1.62	16	2	3.09	NCLSHT
NBA0218_4-6	6	4	18		21178.7	0.04%			0.64	1.26	16	2	1.90	NCLSHT
NBA0318_4-6	6	4	18		21681.1	0.03%			1.06	1.57	24	3	2.63	NCLSHT
NBA0418_4-6	6	4	18		19666.6	0.02%			0.60	0.77	16	2	1.37	NCLSHT
NBA0518_4-6	6	4	18		23039.2	0.10%			1.27	3.08	24	3	4.35	NCLSHT
NBA0618_4-6	6	4	18		19484.5	0.03%			1.27	1.71	16	2	2.99	NCLSHT
NBA0718_4-6	6	4	18		22133.1	0.00%			0.62	0.87	16	2	1.49	NCLSHT
NBA0818_4-6	6	4	18		18080.0	0.08%			1.02	1.69	24	3	2.71	NCLSHT
NBA0918_4-6	6	4	18		21972.9	0.00%			0.74	0.81	16	2	1.55	NCLSHT
NBA006_4-12	12	4	6		13173.7	0.15%			0.26	0.53	10	2	0.79	NCLSHT
NBA016_4-12	12	4	6		15317.8	0.05%			0.43	0.72	10	2	1.16	NCLSHT
NBA026_4-12	12	4	6		13123.9	0.00%			0.21	0.44	15	3	0.65	NCLSHT
NBA036_4-12	12	4	6		12217.2	0.00%			0.30	0.36	10	2	0.66	NCLSHT
NBA046_4-12	12	4	6		14293.9	0.11%			0.30	0.15	5	1	0.45	NCLSHT
NBA056_4-12	12	4	6		14140.6	0.34%			0.55	0.22	5	1	0.77	NCLSHT
NBA066_4-12	12	4	6		12637.1	0.01%			0.22	0.08	5	1	0.30	NCLSHT
NBA076_4-12	12	4	6		12414.1	0.04%			0.23	0.56	15	3	0.79	NCLSHT
NBA086_4-12	12	4	6		14647.9	0.00%			0.19	0.30	10	2	0.49	NCLSHT
NBA096_4-12	12	4	6		13187.8	0.04%			0.44	0.64	10	2	1.07	NCLSHT
NBA0012_4-12	12	4	12		24517.6	0.01%			0.71	1.23	18	3	1.94	NCLSHT
NBA0112_4-12	12	4	12		28368.7	0.03%			1.89	2.75	18	3	4.64	NCLSHT
NBA0212_4-12	12	4	12		26398.4	0.02%			0.43	0.29	6	1	0.72	NCLSHT
NBA0312_4-12	12	4	12		25275.1	0.00%			0.48	0.57	12	2	1.05	NCLSHT
NBA0412_4-12	12	4	12		27198.8	0.00%			0.40	0.61	12	2	1.01	NCLSHT
NBA0512_4-12	12	4	12		27767.9	0.01%			0.48	0.56	12	2	1.04	NCLSHT
NBA0612_4-12	12	4	12		24522.9	0.00%			0.32	0.37	12	2	0.69	NCLSHT
NBA0712_4-12	12	4	12		26178.2	0.09%			0.67	0.93	12	2	1.59	NCLSHT
NBA0812_4-12	12	4	12		27994.2	0.00%			0.47	0.68	12	2	1.15	NCLSHT
NBA0912_4-12	12	4	12		28386.6	0.03%			2.64	1.98	12	2	4.62	NCLSHT
NBA0018_4-12	12	4	18		38028.4	0.00%			1.88	3.02	16	2	4.89	NCLSHT
NBA0118_4-12	12	4	18		41645.7	0.20%			6.77	9.42	24	3	16.19	NCLSHT
NBA0218_4-12	12	4	18		39280.0	0.03%			1.68	1.64	16	2	3.32	NCLSHT
NBA0318_4-12	12	4	18		39464.6	0.01%			1.25	1.98	16	2	3.23	NCLSHT
NBA0418_4-12	12	4	18		40569.9	0.00%			1.92	4.85	24	3	6.78	NCLSHT
NBA0518_4-12	12	4	18		41006.6	0.01%			1.50	2.36	16	2	3.86	NCLSHT
NBA0618_4-12	12	4	18		37066.0	0.00%			0.98	1.26	16	2	2.24	NCLSHT
NBA0718_4-12	12	4	18		41034.4	0.00%			2.47	4.83	24	3	7.30	NCLSHT
NBA0818_4-12	12	4	18		42721.3	0.00%			0.99	2.09	24	3	3.09	NCLSHT
NBA0918_4-12	12	4	18		41481.9	0.27%			7.59	13.04	24	3	20.63	NCLSHT
NBA006_4-25	25	4	6		25499.0	0.02%			0.57	1.06	20	4	1.63	NCLSHT
NBA016_4-25	25	4	6		29406.6	0.04%			0.61	0.96	15	3	1.57	NCLSHT
NBA026_4-25	25	4	6		27556.1	0.03%			0.50	1.18	20	4	1.68	NCLSHT
NBA036_4-25	25	4	6		25870.5	0.00%			0.64	0.67	10	2	1.30	NCLSHT
NBA046_4-25	25	4	6		26644.3	0.11%			0.36	0.29	10	2	0.64	NCLSHT
NBA056_4-25	25	4	6		30131.7	0.07%			0.68	0.70	15	3	1.38	NCLSHT
NBA066_4-25	25	4	6		25357.7	0.09%			0.31	0.30	10	2	0.62	NCLSHT
NBA076_4-25	25	4	6		26955.5	0.07%			0.83	0.57	10	2	1.40	NCLSHT
NBA086_4-25	25	4	6		26221.8	0.03%			0.35	0.15	5	1	0.50	NCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_4-25	25	4	6		27849.5	0.00%			0.62	0.50	10	2	1.12	NCLSHT
NBA0012_4-25	25	4	12		53585.0	0.02%			3.81	2.23	12	2	6.04	NCLSHT
NBA0112_4-25	25	4	12		56257.0	0.00%			1.01	0.80	12	2	1.81	NCLSHT
NBA0212_4-25	25	4	12		53184.4	0.05%			1.66	1.38	12	2	3.04	NCLSHT
NBA0312_4-25	25	4	12		53946.1	0.01%			0.91	1.68	18	3	2.59	NCLSHT
NBA0412_4-25	25	4	12		54869.0	0.01%			1.03	1.73	18	3	2.76	NCLSHT
NBA0512_4-25	25	4	12		57078.4	0.09%			0.77	1.01	12	2	1.78	NCLSHT
NBA0612_4-25	25	4	12		50616.6	0.02%			0.67	0.40	6	1	1.08	NCLSHT
NBA0712_4-25	25	4	12		55387.7	0.02%			2.09	4.63	24	4	6.73	NCLSHT
NBA0812_4-25	25	4	12		54004.4	0.06%			1.17	1.06	12	2	2.23	NCLSHT
NBA0912_4-25	25	4	12		54745.4	0.01%			1.04	1.01	12	2	2.05	NCLSHT
NBA0018_4-25	25	4	18		77881.6	0.03%			6.54	7.88	16	2	14.42	NCLSHT
NBA0118_4-25	25	4	18		83801.3	0.00%			2.10	2.62	16	2	4.72	NCLSHT
NBA0218_4-25	25	4	18		80795.3	0.02%			3.30	3.63	16	2	6.93	NCLSHT
NBA0318_4-25	25	4	18		80248.6	0.00%			2.72	3.13	16	2	5.85	NCLSHT
NBA0418_4-25	25	4	18		83288.2	0.01%			1.35	2.33	24	3	3.68	NCLSHT
NBA0518_4-25	25	4	18		84251.2	0.02%			4.61	3.20	16	2	7.82	NCLSHT
NBA0618_4-25	25	4	18		77315.3	0.01%			1.44	1.72	16	2	3.16	NCLSHT
NBA0718_4-25	25	4	18		82392.6	0.03%			5.25	4.43	16	2	9.68	NCLSHT
NBA0818_4-25	25	4	18		78378.5	0.00%			2.70	2.33	16	2	5.03	NCLSHT
NBA0918_4-25	25	4	18		82201.5	0.00%			4.65	4.15	16	2	8.79	NCLSHT
NBA006_4-50	50	4	6		54601.1	0.05%			0.73	0.87	15	3	1.60	NCLSHT
NBA016_4-50	50	4	6		55371.1	0.03%			0.67	0.50	10	2	1.17	NCLSHT
NBA026_4-50	50	4	6		55982.6	0.00%			0.75	0.48	10	2	1.22	NCLSHT
NBA036_4-50	50	4	6		55113.7	0.04%			2.37	1.12	10	2	3.49	NCLSHT
NBA046_4-50	50	4	6		56682.1	0.03%			3.42	4.55	15	3	7.97	NCLSHT
NBA056_4-50	50	4	6		57404.4	0.13%			0.90	0.55	10	2	1.45	NCLSHT
NBA066_4-50	50	4	6		52798.6	0.00%			0.81	0.58	10	2	1.39	NCLSHT
NBA076_4-50	50	4	6		51565.7	0.00%			1.01	0.65	10	2	1.66	NCLSHT
NBA086_4-50	50	4	6		52848.3	0.03%			0.78	0.61	10	2	1.38	NCLSHT
NBA096_4-50	50	4	6		60101.4	0.01%			0.76	0.54	10	2	1.30	NCLSHT
NBA0012_4-50	50	4	12		110311.7	0.03%			3.67	4.18	12	2	7.86	NCLSHT
NBA0112_4-50	50	4	12		108474.8	0.06%			1.49	2.76	18	3	4.24	NCLSHT
NBA0212_4-50	50	4	12		107903.2	0.02%			2.07	2.74	18	3	4.81	NCLSHT
NBA0312_4-50	50	4	12		109988.5	0.00%			4.24	5.47	24	4	9.71	NCLSHT
NBA0412_4-50	50	4	12		109447.1	0.00%			2.44	4.46	18	3	6.90	NCLSHT
NBA0512_4-50	50	4	12		112047.3	0.07%			1.49	1.77	12	2	3.26	NCLSHT
NBA0612_4-50	50	4	12		104023.6	0.05%			1.17	1.37	12	2	2.55	NCLSHT
NBA0712_4-50	50	4	12		106431.5	0.03%			4.51	7.70	18	3	12.20	NCLSHT
NBA0812_4-50	50	4	12		106504.6	0.04%			1.23	1.97	18	3	3.20	NCLSHT
NBA0912_4-50	50	4	12		114342.9	0.03%			3.42	3.93	24	4	7.35	NCLSHT
NBA0018_4-50	50	4	18		159954.3	0.01%			3.40	3.88	16	2	7.28	NCLSHT
NBA0118_4-50	50	4	18		161690.1	0.00%			3.71	4.69	16	2	8.40	NCLSHT
NBA0218_4-50	50	4	18		162666.7	0.01%			13.68	28.86	24	3	42.54	NCLSHT
NBA0318_4-50	50	4	18		163022.9	0.02%			10.38	8.00	16	2	18.38	NCLSHT
NBA0418_4-50	50	4	18		166165.6	0.02%			9.10	10.82	24	3	19.91	NCLSHT
NBA0518_4-50	50	4	18		167987.8	0.00%			3.70	6.54	24	3	10.24	NCLSHT
NBA0618_4-50	50	4	18		156284.0	0.02%			3.47	5.31	24	3	8.77	NCLSHT
NBA0718_4-50	50	4	18		161438.7	0.04%			19.41	27.53	24	3	46.95	NCLSHT
NBA0818_4-50	50	4	18		157279.4	0.00%			3.37	4.58	24	3	7.95	NCLSHT
NBA0918_4-50	50	4	18		168447.1	0.01%			9.62	8.36	24	3	17.97	NCLSHT
NBA006_6-6	6	6	6		5607.2	0.00%			0.11	0.19	15	3	0.30	NCLSHT
NBA016_6-6	6	6	6		7113.2	0.00%			0.23	0.16	5	1	0.39	NCLSHT
NBA026_6-6	6	6	6		6939.6	0.00%			0.12	0.08	5	1	0.20	NCLSHT
NBA036_6-6	6	6	6		7315.9	0.00%			0.11	0.07	5	1	0.18	NCLSHT
NBA046_6-6	6	6	6		8021.5	0.05%			0.21	0.11	5	1	0.32	NCLSHT
NBA056_6-6	6	6	6		7914.6	0.04%			0.24	0.31	10	2	0.54	NCLSHT
NBA066_6-6	6	6	6		6664.3	0.06%			0.12	0.18	10	2	0.30	NCLSHT
NBA076_6-6	6	6	6		7705.1	0.12%			0.13	0.20	10	2	0.33	NCLSHT
NBA086_6-6	6	6	6		6637.0	0.18%			0.25	0.15	10	2	0.41	NCLSHT
NBA096_6-6	6	6	6		7393.0	0.03%			0.18	0.17	10	2	0.35	NCLSHT
NBA0012_6-6	6	6	12		11955.5	0.00%			0.15	0.16	12	2	0.32	NCLSHT
NBA0112_6-6	6	6	12		14044.9	0.00%			0.73	1.41	18	3	2.14	NCLSHT
NBA0212_6-6	6	6	12		14146.7	0.04%			0.32	0.40	12	2	0.72	NCLSHT
NBA0312_6-6	6	6	12		14707.6	0.03%			0.48	0.71	12	2	1.20	NCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0412_6-6	6	6	12		14780.6	0.21%			0.84	0.89	12	2	1.72	NCLSHT
NBA0512_6-6	6	6	12		14521.5	0.04%			0.47	0.80	18	3	1.27	NCLSHT
NBA0612_6-6	6	6	12		12568.0	0.00%			0.39	0.31	6	1	0.70	NCLSHT
NBA0712_6-6	6	6	12		15146.3	0.24%			0.43	0.60	12	2	1.03	NCLSHT
NBA0812_6-6	6	6	12		12278.5	0.00%			0.46	0.17	6	1	0.63	NCLSHT
NBA0912_6-6	6	6	12		13996.4	0.06%			0.41	0.20	6	1	0.61	NCLSHT
NBA0018_6-6	6	6	18		17742.3	0.00%			0.27	0.40	16	2	0.67	NCLSHT
NBA0118_6-6	6	6	18		21526.3	0.00%			1.29	1.78	16	2	3.07	NCLSHT
NBA0218_6-6	6	6	18		19872.5	0.01%			0.94	0.53	8	1	1.48	NCLSHT
NBA0318_6-6	6	6	18		20492.7	0.00%			0.79	1.26	16	2	2.05	NCLSHT
NBA0418_6-6	6	6	18		21953.4	0.00%			1.25	1.21	16	2	2.47	NCLSHT
NBA0518_6-6	6	6	18		22132.7	0.02%			1.39	2.15	16	2	3.54	NCLSHT
NBA0618_6-6	6	6	18		19938.6	0.00%			1.05	1.30	16	2	2.34	NCLSHT
NBA0718_6-6	6	6	18		21759.8	0.00%			0.63	0.35	8	1	0.98	NCLSHT
NBA0818_6-6	6	6	18		19912.4	0.02%			1.05	1.41	16	2	2.46	NCLSHT
NBA0918_6-6	6	6	18		21294.7	0.00%			1.08	1.16	16	2	2.24	NCLSHT
NBA006_6-12	12	6	6		12748.1	0.22%			0.39	0.34	5	1	0.73	NCLSHT
NBA016_6-12	12	6	6		13035.9	0.02%			0.70	0.68	10	2	1.38	NCLSHT
NBA026_6-12	12	6	6		12007.6	0.00%			0.17	0.09	5	1	0.26	NCLSHT
NBA036_6-12	12	6	6		12923.5	0.00%			0.18	0.12	5	1	0.30	NCLSHT
NBA046_6-12	12	6	6		12760.0	0.00%			0.20	0.31	10	2	0.51	NCLSHT
NBA056_6-12	12	6	6		12344.0	0.09%			0.21	0.22	10	2	0.43	NCLSHT
NBA066_6-12	12	6	6		11652.9	0.10%			0.54	0.86	15	3	1.40	NCLSHT
NBA076_6-12	12	6	6		13480.8	0.01%			0.52	1.05	15	3	1.57	NCLSHT
NBA086_6-12	12	6	6		13379.5	0.04%			0.68	0.88	10	2	1.56	NCLSHT
NBA096_6-12	12	6	6		14301.6	0.00%			0.31	0.51	10	2	0.82	NCLSHT
NBA0012_6-12	12	6	12		24113.6	0.01%			0.80	0.70	12	2	1.50	NCLSHT
NBA0112_6-12	12	6	12		25529.1	0.03%			0.79	1.13	12	2	1.92	NCLSHT
NBA0212_6-12	12	6	12		24029.6	0.02%			1.12	1.17	12	2	2.28	NCLSHT
NBA0312_6-12	12	6	12		26471.3	0.10%			0.74	1.03	12	2	1.77	NCLSHT
NBA0412_6-12	12	6	12		24984.9	0.01%			0.44	0.30	6	1	0.75	NCLSHT
NBA0512_6-12	12	6	12		26217.6	0.11%			0.76	0.86	12	2	1.63	NCLSHT
NBA0612_6-12	12	6	12		23453.7	0.00%			1.26	1.60	12	2	2.87	NCLSHT
NBA0712_6-12	12	6	12		27892.1	0.06%			3.94	1.75	6	1	5.69	NCLSHT
NBA0812_6-12	12	6	12		25615.5	0.05%			1.42	2.41	12	2	3.83	NCLSHT
NBA0912_6-12	12	6	12		27276.2	0.00%			3.11	3.23	12	2	6.34	NCLSHT
NBA0018_6-12	12	6	18		36370.4	0.00%			1.20	2.02	16	2	3.21	NCLSHT
NBA0118_6-12	12	6	18		40984.0	0.03%			3.23	6.13	32	4	9.37	NCLSHT
NBA0218_6-12	12	6	18		36656.3	0.00%			1.53	0.91	8	1	2.44	NCLSHT
NBA0318_6-12	12	6	18		38314.3	0.00%			1.49	1.83	16	2	3.32	NCLSHT
NBA0418_6-12	12	6	18		36991.3	0.00%			1.46	2.18	16	2	3.64	NCLSHT
NBA0518_6-12	12	6	18		40380.4	0.00%			1.64	2.24	16	2	3.88	NCLSHT
NBA0618_6-12	12	6	18		37140.3	0.00%			4.26	4.66	16	2	8.93	NCLSHT
NBA0718_6-12	12	6	18		41301.2	0.06%			7.57	8.56	24	3	16.13	NCLSHT
NBA0818_6-12	12	6	18		39085.3	0.19%			10.72	16.55	16	2	27.27	NCLSHT
NBA0918_6-12	12	6	18		41031.1	0.00%			2.70	3.06	16	2	5.76	NCLSHT
NBA006_6-25	25	6	6		25561.0	0.02%			0.72	0.49	5	1	1.20	NCLSHT
NBA016_6-25	25	6	6		25308.2	0.03%			0.86	1.04	10	2	1.90	NCLSHT
NBA026_6-25	25	6	6		26737.0	0.07%			0.58	0.69	10	2	1.28	NCLSHT
NBA036_6-25	25	6	6		26587.1	0.08%			2.84	2.03	10	2	4.87	NCLSHT
NBA046_6-25	25	6	6		28381.4	0.08%			1.33	1.32	10	2	2.65	NCLSHT
NBA056_6-25	25	6	6		26225.3	0.02%			0.81	0.79	10	2	1.60	NCLSHT
NBA066_6-25	25	6	6		25278.4	0.00%			0.45	0.43	10	2	0.88	NCLSHT
NBA076_6-25	25	6	6		27859.3	0.03%			0.82	0.84	10	2	1.67	NCLSHT
NBA086_6-25	25	6	6		26562.8	0.00%			0.50	0.59	10	2	1.10	NCLSHT
NBA096_6-25	25	6	6		26258.7	0.00%			0.82	0.53	10	2	1.35	NCLSHT
NBA0012_6-25	25	6	12		52245.8	0.01%			2.26	4.16	18	3	6.43	NCLSHT
NBA0112_6-25	25	6	12		52470.8	0.00%			7.36	30.51	24	4	37.87	NCLSHT
NBA0212_6-25	25	6	12		53911.2	0.06%			2.81	2.64	12	2	5.45	NCLSHT
NBA0312_6-25	25	6	12		52212.5	0.08%			6.55	6.36	18	3	12.91	NCLSHT
NBA0412_6-25	25	6	12		55769.3	0.09%			7.59	10.79	18	3	18.38	NCLSHT
NBA0512_6-25	25	6	12		51653.8	0.03%			5.96	18.26	18	3	24.22	NCLSHT
NBA0612_6-25	25	6	12		50897.1	0.01%			0.75	0.97	12	2	1.72	NCLSHT
NBA0712_6-25	25	6	12		52559.2	0.07%			3.26	2.64	12	2	5.90	NCLSHT
NBA0812_6-25	25	6	12		51075.3	0.00%			1.46	1.95	12	2	3.40	NCLSHT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_6-25	25	6	12		53475.4	0.02%			3.61	4.64	18	3	8.25	NCLSHT
NBA0018_6-25	25	6	18		76067.3	0.03%			19.53	19.03	16	2	38.55	NCLSHT
NBA0118_6-25	25	6	18		79208.1	0.02%			7.32	6.81	16	2	14.14	NCLSHT
NBA0218_6-25	25	6	18		81519.2	0.04%			10.37	17.21	24	3	27.58	NCLSHT
NBA0318_6-25	25	6	18		79371.5	0.09%			19.98	12.63	16	2	32.61	NCLSHT
NBA0418_6-25	25	6	18		84583.7	0.07%			31.15	26.42	16	2	57.57	NCLSHT
NBA0518_6-25	25	6	18		80788.8	0.01%			8.18	5.33	16	2	13.52	NCLSHT
NBA0618_6-25	25	6	18		76162.0	0.00%			2.65	4.89	24	3	7.54	NCLSHT
NBA0718_6-25	25	6	18		77487.6	0.01%			14.58	7.73	16	2	22.30	NCLSHT
NBA0818_6-25	25	6	18		74945.3	0.01%			7.70	5.50	16	2	13.21	NCLSHT
NBA0918_6-25	25	6	18		81165.0	0.00%			7.60	6.00	16	2	13.61	NCLSHT
NBA006_6-50	50	6	6		50530.5	0.00%			1.53	1.51	15	3	3.04	NCLSHT
NBA016_6-50	50	6	6		50584.3	0.00%			2.00	1.64	10	2	3.65	NCLSHT
NBA026_6-50	50	6	6		52070.2	0.02%			1.85	1.54	10	2	3.39	NCLSHT
NBA036_6-50	50	6	6		51621.7	0.04%			0.89	0.87	10	2	1.75	NCLSHT
NBA046_6-50	50	6	6		53903.6	0.05%			2.31	1.62	10	2	3.94	NCLSHT
NBA056_6-50	50	6	6		52682.6	0.05%			1.34	1.61	10	2	2.95	NCLSHT
NBA066_6-50	50	6	6		51791.9	0.01%			5.93	2.65	10	2	8.59	NCLSHT
NBA076_6-50	50	6	6		53971.7	0.05%			1.05	1.29	10	2	2.34	NCLSHT
NBA086_6-50	50	6	6		50770.3	0.01%			0.92	0.71	10	2	1.63	NCLSHT
NBA096_6-50	50	6	6		50619.0	0.01%			0.82	0.97	10	2	1.79	NCLSHT
NBA0012_6-50	50	6	12		102393.3	0.01%			2.52	2.53	12	2	5.05	NCLSHT
NBA0112_6-50	50	6	12		101429.3	0.03%			3.09	7.92	24	4	11.02	NCLSHT
NBA0212_6-50	50	6	12		104874.3	0.01%			8.58	15.51	18	3	24.09	NCLSHT
NBA0312_6-50	50	6	12		102384.7	0.00%			5.75	3.94	12	2	9.69	NCLSHT
NBA0412_6-50	50	6	12		109580.7	0.01%			7.25	3.97	12	2	11.22	NCLSHT
NBA0512_6-50	50	6	12		105188.5	0.05%			9.78	15.35	18	3	25.13	NCLSHT
NBA0612_6-50	50	6	12		101776.1	0.01%			8.54	6.77	12	2	15.31	NCLSHT
NBA0712_6-50	50	6	12		107445.7	0.01%			2.59	3.41	12	2	6.00	NCLSHT
NBA0812_6-50	50	6	12		99767.2	0.02%			2.03	3.47	18	3	5.50	NCLSHT
NBA0912_6-50	50	6	12		102208.7	0.01%			3.53	3.94	12	2	7.47	NCLSHT
NBA0018_6-50	50	6	18		152635.8	0.01%			7.92	6.52	16	2	14.44	NCLSHT
NBA0118_6-50	50	6	18		150740.0	0.00%			16.43	20.58	16	2	37.01	NCLSHT
NBA0218_6-50	50	6	18		154224.6	0.01%			17.27	15.50	16	2	32.76	NCLSHT
NBA0318_6-50	50	6	18		154026.6	0.00%			8.63	10.06	16	2	18.69	NCLSHT
NBA0418_6-50	50	6	18		164556.0	0.01%			17.88	38.22	40	5	56.10	NCLSHT
NBA0518_6-50	50	6	18		155185.1	0.03%			26.18	17.01	16	2	43.19	NCLSHT
NBA0618_6-50	50	6	18		153881.2	0.04%			30.78	23.59	16	2	54.37	NCLSHT
NBA0718_6-50	50	6	18		159008.8	0.01%			12.60	11.55	16	2	24.15	NCLSHT
NBA0818_6-50	50	6	18		150917.0	0.00%			14.51	21.23	24	3	35.75	NCLSHT
NBA0918_6-50	50	6	18		154026.2	0.01%			9.49	11.38	24	3	20.88	NCLSHT
NBB006_2-6	6	2	6		8081.5	0.00%			0.14	0.18	10	2	0.32	NCLSLT
NBB016_2-6	6	2	6		5923.7	0.00%			0.05	0.07	10	2	0.13	NCLSLT
NBB026_2-6	6	2	6		6940.7	0.00%			0.07	0.05	5	1	0.12	NCLSLT
NBB036_2-6	6	2	6		7714.2	0.00%			0.10	0.05	5	1	0.15	NCLSLT
NBB046_2-6	6	2	6		7828.3	0.39%			0.15	0.33	15	3	0.47	NCLSLT
NBB056_2-6	6	2	6		9352.7	0.00%			0.05	0.04	5	1	0.09	NCLSLT
NBB066_2-6	6	2	6		8012.0	0.00%			0.10	0.12	10	2	0.22	NCLSLT
NBB076_2-6	6	2	6		9072.2	0.00%			0.11	0.09	5	1	0.20	NCLSLT
NBB086_2-6	6	2	6		8182.5	0.00%			0.10	0.14	10	2	0.24	NCLSLT
NBB096_2-6	6	2	6		7089.9	0.00%			0.06	0.08	10	2	0.14	NCLSLT
NBB0012_2-6	6	2	12		15492.1	0.02%			0.32	0.45	12	2	0.77	NCLSLT
NBB0112_2-6	6	2	12		13322.4	0.00%			0.21	0.09	6	1	0.30	NCLSLT
NBB0212_2-6	6	2	12		14595.8	0.05%			0.20	0.19	12	2	0.39	NCLSLT
NBB0312_2-6	6	2	12		14732.6	0.01%			0.23	0.72	30	5	0.95	NCLSLT
NBB0412_2-6	6	2	12		13658.3	0.44%			0.44	0.82	18	3	1.26	NCLSLT
NBB0512_2-6	6	2	12		17351.7	0.07%			0.19	0.41	18	3	0.60	NCLSLT
NBB0612_2-6	6	2	12		14904.3	0.15%			0.20	0.16	6	1	0.35	NCLSLT
NBB0712_2-6	6	2	12		16592.1	0.00%			0.27	0.48	18	3	0.75	NCLSLT
NBB0812_2-6	6	2	12		14141.0	0.01%			0.19	0.32	12	2	0.51	NCLSLT
NBB0912_2-6	6	2	12		16095.8	0.13%			0.22	0.26	12	2	0.47	NCLSLT
NBB0018_2-6	6	2	18		21645.9	0.02%			0.90	1.67	16	2	2.58	NCLSLT
NBB0118_2-6	6	2	18		20072.1	0.00%			0.35	0.40	16	2	0.76	NCLSLT
NBB0218_2-6	6	2	18		22351.9	0.01%			0.55	0.82	16	2	1.37	NCLSLT
NBB0418_2-6	6	2	18		20015.1	0.00%			0.70	1.78	24	3	2.48	NCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_2-6	6	2	18		24992.0	0.10%			0.43	0.55	16	2	0.98	NCLSLT
NBB0618_2-6	6	2	18		22703.5	0.03%			0.45	1.20	24	3	1.66	NCLSLT
NBB0718_2-6	6	2	18		24299.8	0.00%			0.70	1.98	24	3	2.67	NCLSLT
NBB0818_2-6	6	2	18		20809.3	0.00%			0.46	0.85	16	2	1.31	NCLSLT
NBB0918_2-6	6	2	18		22437.7	0.01%			0.40	0.61	24	3	1.02	NCLSLT
NBB006_2-12	12	2	6		12635.0	0.00%			0.08	0.12	10	2	0.20	NCLSLT
NBB016_2-12	12	2	6		13882.6	0.00%			0.12	0.07	5	1	0.19	NCLSLT
NBB026_2-12	12	2	6		14063.8	0.06%			0.21	0.11	5	1	0.32	NCLSLT
NBB036_2-12	12	2	6		16328.3	0.07%			0.10	0.29	20	4	0.40	NCLSLT
NBB046_2-12	12	2	6		14150.7	0.00%			0.16	0.15	10	2	0.31	NCLSLT
NBB056_2-12	12	2	6		16478.1	0.00%			0.19	0.41	20	4	0.60	NCLSLT
NBB066_2-12	12	2	6		13748.0	0.00%			0.11	0.09	5	1	0.20	NCLSLT
NBB076_2-12	12	2	6		15396.6	0.00%			0.10	0.07	5	1	0.18	NCLSLT
NBB086_2-12	12	2	6		12751.3	0.00%			0.10	0.06	5	1	0.16	NCLSLT
NBB096_2-12	12	2	6		15851.9	0.09%			0.14	0.22	10	2	0.36	NCLSLT
NBB0012_2-12	12	2	12		26093.2	0.02%			0.23	0.35	12	2	0.58	NCLSLT
NBB0112_2-12	12	2	12		27401.2	0.00%			0.22	0.30	12	2	0.52	NCLSLT
NBB0212_2-12	12	2	12		27063.0	0.04%			0.47	0.85	12	2	1.32	NCLSLT
NBB0312_2-12	12	2	12		31685.3	0.03%			0.35	0.64	18	3	0.98	NCLSLT
NBB0412_2-12	12	2	12		28237.8	0.05%			0.38	0.48	12	2	0.86	NCLSLT
NBB0512_2-12	12	2	12		32001.0	0.00%			0.34	0.39	12	2	0.74	NCLSLT
NBB0612_2-12	12	2	12		27186.6	0.09%			0.28	0.25	12	2	0.53	NCLSLT
NBB0712_2-12	12	2	12		30245.0	0.00%			0.35	0.44	12	2	0.79	NCLSLT
NBB0812_2-12	12	2	12		26678.9	0.20%			0.42	0.45	12	2	0.87	NCLSLT
NBB0912_2-12	12	2	12		30953.9	0.17%			1.08	0.68	6	1	1.75	NCLSLT
NBB0018_2-12	12	2	18		39324.8	0.00%			0.49	0.73	16	2	1.22	NCLSLT
NBB0118_2-12	12	2	18		40351.0	0.03%			0.90	1.07	16	2	1.97	NCLSLT
NBB0218_2-12	12	2	18		41456.9	0.08%			1.65	3.94	24	3	5.59	NCLSLT
NBB0318_2-12	12	2	18		46144.9	0.00%			0.99	1.67	16	2	2.65	NCLSLT
NBB0418_2-12	12	2	18		44127.0	0.05%			1.01	1.45	16	2	2.47	NCLSLT
NBB0518_2-12	12	2	18		47240.2	0.01%			1.47	1.70	16	2	3.17	NCLSLT
NBB0618_2-12	12	2	18		40551.0	0.02%			0.85	1.16	16	2	2.01	NCLSLT
NBB0718_2-12	12	2	18		45418.4	0.03%			0.75	1.73	24	3	2.48	NCLSLT
NBB0818_2-12	12	2	18		41252.1	0.12%			1.12	1.66	16	2	2.79	NCLSLT
NBB0918_2-12	12	2	18		47148.4	0.20%			3.33	8.42	24	3	11.75	NCLSLT
NBB006_2-25	25	2	6		29143.6	0.00%			0.27	0.16	5	1	0.43	NCLSLT
NBB016_2-25	25	2	6		29851.4	0.04%			0.25	0.31	10	2	0.56	NCLSLT
NBB026_2-25	25	2	6		28442.3	0.08%			0.46	0.51	15	3	0.98	NCLSLT
NBB036_2-25	25	2	6		30149.0	0.09%			0.36	0.63	10	2	0.99	NCLSLT
NBB046_2-25	25	2	6		31330.3	0.04%			0.34	0.34	10	2	0.68	NCLSLT
NBB056_2-25	25	2	6		31395.9	0.13%			1.05	0.72	10	2	1.77	NCLSLT
NBB066_2-25	25	2	6		27874.4	0.00%			0.15	0.09	5	1	0.24	NCLSLT
NBB076_2-25	25	2	6		31249.7	0.07%			0.41	0.41	10	2	0.82	NCLSLT
NBB086_2-25	25	2	6		31963.1	0.00%			0.40	0.80	10	2	1.20	NCLSLT
NBB096_2-25	25	2	6		33063.0	0.26%			0.45	0.20	5	1	0.64	NCLSLT
NBB0012_2-25	25	2	12		58132.6	0.01%			0.61	0.69	18	3	1.30	NCLSLT
NBB0112_2-25	25	2	12		60845.8	0.07%			0.53	0.72	12	2	1.26	NCLSLT
NBB0212_2-25	25	2	12		56185.6	0.14%			0.77	1.96	18	3	2.73	NCLSLT
NBB0312_2-25	25	2	12		59094.8	0.02%			0.61	0.61	12	2	1.22	NCLSLT
NBB0412_2-25	25	2	12		59557.7	0.05%			0.88	1.02	12	2	1.90	NCLSLT
NBB0512_2-25	25	2	12		64798.5	0.07%			0.82	1.25	18	3	2.07	NCLSLT
NBB0612_2-25	25	2	12		57139.4	0.00%			0.31	0.43	12	2	0.74	NCLSLT
NBB0712_2-25	25	2	12		62687.4	0.00%			1.04	1.49	18	3	2.54	NCLSLT
NBB0812_2-25	25	2	12		62630.9	0.03%			1.18	2.99	24	4	4.17	NCLSLT
NBB0912_2-25	25	2	12		63858.8	0.08%			0.93	0.63	12	2	1.56	NCLSLT
NBB0018_2-25	25	2	18		86998.9	0.01%			0.75	1.00	16	2	1.76	NCLSLT
NBB0118_2-25	25	2	18		88477.8	0.00%			1.70	1.45	16	2	3.15	NCLSLT
NBB0218_2-25	25	2	18		83114.8	0.04%			2.31	6.09	24	3	8.41	NCLSLT
NBB0318_2-25	25	2	18		91208.1	0.03%			2.46	2.67	24	3	5.13	NCLSLT
NBB0418_2-25	25	2	18		90444.8	0.02%			3.25	4.71	24	3	7.96	NCLSLT
NBB0518_2-25	25	2	18		94843.5	0.10%			6.68	14.04	24	3	20.73	NCLSLT
NBB0618_2-25	25	2	18		83513.2	0.03%			0.79	0.95	16	2	1.74	NCLSLT
NBB0718_2-25	25	2	18		92028.2	0.02%			4.14	4.78	24	3	8.93	NCLSLT
NBB0818_2-25	25	2	18		91285.2	0.04%			3.17	5.66	24	3	8.83	NCLSLT
NBB0918_2-25	25	2	18		92962.4	0.04%			3.40	2.39	16	2	5.79	NCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_2-50	50	2	6		58756.3	0.03%			0.33	0.39	10	2	0.72	NCLSLT
NBB016_2-50	50	2	6		60250.4	0.01%			0.46	0.59	15	3	1.05	NCLSLT
NBB026_2-50	50	2	6		56021.9	0.15%			0.85	0.63	10	2	1.49	NCLSLT
NBB036_2-50	50	2	6		59173.2	0.04%			0.75	0.56	10	2	1.31	NCLSLT
NBB046_2-50	50	2	6		60671.5	0.04%			1.03	1.04	10	2	2.07	NCLSLT
NBB056_2-50	50	2	6		59259.5	0.11%			0.64	0.97	15	3	1.61	NCLSLT
NBB066_2-50	50	2	6		55896.0	0.09%			0.28	0.47	10	2	0.75	NCLSLT
NBB076_2-50	50	2	6		58799.2	0.00%			0.60	0.41	10	2	1.01	NCLSLT
NBB086_2-50	50	2	6		59900.0	0.02%			0.55	0.62	10	2	1.17	NCLSLT
NBB096_2-50	50	2	6		60542.4	0.03%			0.79	0.70	10	2	1.49	NCLSLT
NBB0012_2-50	50	2	12		117272.5	0.00%			0.61	1.16	18	3	1.77	NCLSLT
NBB0112_2-50	50	2	12		119843.2	0.05%			0.78	1.46	18	3	2.24	NCLSLT
NBB0212_2-50	50	2	12		113904.3	0.01%			1.40	2.54	18	3	3.95	NCLSLT
NBB0312_2-50	50	2	12		119869.6	0.07%			1.29	3.10	18	3	4.40	NCLSLT
NBB0412_2-50	50	2	12		121940.9	0.03%			2.85	4.19	24	4	7.05	NCLSLT
NBB0512_2-50	50	2	12		119165.5	0.01%			2.17	1.66	18	3	3.84	NCLSLT
NBB0612_2-50	50	2	12		113568.5	0.01%			0.71	0.75	12	2	1.46	NCLSLT
NBB0712_2-50	50	2	12		114579.6	0.03%			0.95	3.99	18	3	4.94	NCLSLT
NBB0812_2-50	50	2	12		115242.4	0.04%			1.61	2.54	18	3	4.15	NCLSLT
NBB0912_2-50	50	2	12		122306.9	0.02%			1.01	1.90	18	3	2.91	NCLSLT
NBB0018_2-50	50	2	18		175735.4	0.01%			2.67	2.91	24	3	5.58	NCLSLT
NBB0118_2-50	50	2	18		178701.4	0.00%			1.77	2.02	16	2	3.79	NCLSLT
NBB0218_2-50	50	2	18		169587.1	0.03%			7.83	7.63	16	2	15.46	NCLSLT
NBB0318_2-50	50	2	18		180978.9	0.03%			4.50	3.99	16	2	8.50	NCLSLT
NBB0418_2-50	50	2	18		181476.7	0.03%			15.63	15.31	32	4	30.95	NCLSLT
NBB0518_2-50	50	2	18		180975.7	0.02%			7.68	2.47	16	2	10.15	NCLSLT
NBB0618_2-50	50	2	18		171678.1	0.01%			2.42	3.56	24	3	5.98	NCLSLT
NBB0718_2-50	50	2	18		172327.4	0.01%			4.24	5.55	24	3	9.79	NCLSLT
NBB0818_2-50	50	2	18		173399.3	0.04%			5.35	7.38	24	3	12.73	NCLSLT
NBB0918_2-50	50	2	18		182760.5	0.02%			6.50	9.97	40	5	16.47	NCLSLT
NBB006_4-6	6	4	6		6354.9	0.00%			0.14	0.20	10	2	0.34	NCLSLT
NBB016_4-6	6	4	6		7260.5	0.13%			0.28	0.15	5	1	0.43	NCLSLT
NBB026_4-6	6	4	6		7329.5	0.00%			0.13	0.16	5	1	0.29	NCLSLT
NBB036_4-6	6	4	6		6713.5	0.10%			0.11	0.07	5	1	0.18	NCLSLT
NBB046_4-6	6	4	6		5584.9	0.29%			0.10	0.07	5	1	0.17	NCLSLT
NBB056_4-6	6	4	6		7908.1	0.11%			0.52	0.91	10	2	1.43	NCLSLT
NBB066_4-6	6	4	6		6392.5	0.07%			0.24	0.16	10	2	0.40	NCLSLT
NBB076_4-6	6	4	6		7687.1	0.00%			0.09	0.11	10	2	0.20	NCLSLT
NBB086_4-6	6	4	6		5876.0	0.22%			0.11	0.07	5	1	0.18	NCLSLT
NBB096_4-6	6	4	6		8535.7	0.17%			0.15	0.18	10	2	0.34	NCLSLT
NBB0012_4-6	6	4	12		11759.4	0.00%			0.17	0.29	12	2	0.47	NCLSLT
NBB0112_4-6	6	4	12		15228.5	0.00%			0.75	0.80	12	2	1.55	NCLSLT
NBB0212_4-6	6	4	12		14584.9	0.00%			0.35	0.48	12	2	0.83	NCLSLT
NBB0312_4-6	6	4	12		14412.2	0.00%			0.29	0.30	12	2	0.59	NCLSLT
NBB0412_4-6	6	4	12		12915.9	0.25%			1.07	1.38	12	2	2.45	NCLSLT
NBB0512_4-6	6	4	12		15821.2	0.08%			0.58	0.91	12	2	1.49	NCLSLT
NBB0612_4-6	6	4	12		12778.4	0.04%			0.27	0.14	6	1	0.41	NCLSLT
NBB0712_4-6	6	4	12		14725.0	0.08%			0.33	0.41	12	2	0.74	NCLSLT
NBB0812_4-6	6	4	12		12363.6	0.00%			0.52	0.61	12	2	1.13	NCLSLT
NBB0912_4-6	6	4	12		14839.4	0.02%			0.25	0.23	12	2	0.48	NCLSLT
NBB0018_4-6	6	4	18		18653.1	0.00%			0.88	1.34	16	2	2.22	NCLSLT
NBB0118_4-6	6	4	18		21729.4	0.06%			1.59	2.00	16	2	3.58	NCLSLT
NBB0218_4-6	6	4	18		21436.5	0.00%			0.71	0.59	8	1	1.30	NCLSLT
NBB0318_4-6	6	4	18		22037.0	0.00%			0.83	1.29	16	2	2.12	NCLSLT
NBB0418_4-6	6	4	18		19989.0	0.10%			0.86	2.25	24	3	3.12	NCLSLT
NBB0518_4-6	6	4	18		23482.1	0.00%			1.95	2.51	16	2	4.46	NCLSLT
NBB0618_4-6	6	4	18		19868.3	0.00%			1.26	0.80	8	1	2.06	NCLSLT
NBB0718_4-6	6	4	18		22427.7	0.05%			0.82	1.18	16	2	2.00	NCLSLT
NBB0818_4-6	6	4	18		18198.4	0.06%			0.89	1.03	16	2	1.92	NCLSLT
NBB0918_4-6	6	4	18		22141.8	0.00%			0.59	0.83	16	2	1.41	NCLSLT
NBB006_4-12	12	4	6		13286.3	0.00%			0.44	0.62	10	2	1.07	NCLSLT
NBB016_4-12	12	4	6		15466.2	0.26%			0.52	0.60	10	2	1.13	NCLSLT
NBB026_4-12	12	4	6		13158.9	0.00%			0.20	0.33	10	2	0.53	NCLSLT
NBB036_4-12	12	4	6		12376.6	0.14%			0.50	1.01	15	3	1.51	NCLSLT
NBB046_4-12	12	4	6		14396.1	0.22%			0.34	0.33	10	2	0.67	NCLSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_4-12	12	4	6		14168.8	0.00%			0.52	0.49	10	2	1.01	NCLSLT
NBB066_4-12	12	4	6		12695.8	0.22%			0.21	0.11	5	1	0.32	NCLSLT
NBB076_4-12	12	4	6		12500.5	0.14%			0.26	0.42	10	2	0.68	NCLSLT
NBB086_4-12	12	4	6		14698.7	0.00%			0.28	0.32	10	2	0.59	NCLSLT
NBB096_4-12	12	4	6		13297.5	0.12%			0.44	0.74	10	2	1.18	NCLSLT
NBB0012_4-12	12	4	12		24808.8	0.00%			1.31	2.58	18	3	3.90	NCLSLT
NBB0112_4-12	12	4	12		28670.5	0.27%			1.90	5.45	24	4	7.35	NCLSLT
NBB0212_4-12	12	4	12		26548.2	0.05%			0.72	0.52	6	1	1.24	NCLSLT
NBB0312_4-12	12	4	12		25486.1	0.01%			0.85	1.07	12	2	1.92	NCLSLT
NBB0412_4-12	12	4	12		27361.6	0.00%			0.77	1.06	12	2	1.84	NCLSLT
NBB0512_4-12	12	4	12		27964.8	0.04%			0.86	1.67	18	3	2.53	NCLSLT
NBB0612_4-12	12	4	12		24618.3	0.00%			0.34	0.41	12	2	0.75	NCLSLT
NBB0712_4-12	12	4	12		26377.4	0.08%			2.20	3.17	24	4	5.36	NCLSLT
NBB0812_4-12	12	4	12		28128.8	0.00%			0.73	1.04	12	2	1.77	NCLSLT
NBB0912_4-12	12	4	12		28652.0	0.15%			4.13	3.40	12	2	7.53	NCLSLT
NBB0018_4-12	12	4	18		38509.2	0.24%			5.08	7.89	16	2	12.97	NCLSLT
NBB0118_4-12	12	4	18		42092.8	0.26%			7.46	12.52	24	3	19.98	NCLSLT
NBB0218_4-12	12	4	18		39464.5	0.02%			1.86	1.28	8	1	3.14	NCLSLT
NBB0318_4-12	12	4	18		39769.2	0.06%			2.25	3.91	24	3	6.16	NCLSLT
NBB0418_4-12	12	4	18		40754.9	0.00%			2.01	2.71	16	2	4.72	NCLSLT
NBB0518_4-12	12	4	18		41184.6	0.04%			4.66	5.48	24	3	10.13	NCLSLT
NBB0618_4-12	12	4	18		37188.1	0.00%			1.00	1.33	16	2	2.33	NCLSLT
NBB0718_4-12	12	4	18		41241.5	0.06%			4.18	3.01	16	2	7.18	NCLSLT
NBB0818_4-12	12	4	18		42951.0	0.12%			1.84	2.54	16	2	4.38	NCLSLT
NBB0918_4-12	12	4	18		41747.8	0.23%			5.67	11.38	24	3	17.04	NCLSLT
NBB006_4-25	25	4	6		25602.8	0.00%			0.74	0.78	10	2	1.52	NCLSLT
NBB016_4-25	25	4	6		29489.7	0.00%			0.69	0.65	10	2	1.34	NCLSLT
NBB026_4-25	25	4	6		27653.3	0.00%			0.75	1.25	15	3	2.00	NCLSLT
NBB036_4-25	25	4	6		26086.3	0.11%			1.05	1.02	10	2	2.07	NCLSLT
NBB046_4-25	25	4	6		26666.0	0.03%			0.37	0.31	10	2	0.68	NCLSLT
NBB056_4-25	25	4	6		30216.8	0.16%			0.61	0.24	5	1	0.85	NCLSLT
NBB066_4-25	25	4	6		25384.5	0.00%			0.36	0.64	15	3	1.00	NCLSLT
NBB076_4-25	25	4	6		27131.0	0.14%			1.23	1.84	10	2	3.07	NCLSLT
NBB086_4-25	25	4	6		26268.5	0.00%			0.61	0.63	10	2	1.24	NCLSLT
NBB096_4-25	25	4	6		27960.9	0.02%			0.60	0.85	10	2	1.44	NCLSLT
NBB0012_4-25	25	4	12		53803.9	0.12%			3.87	7.40	18	3	11.27	NCLSLT
NBB0112_4-25	25	4	12		56364.5	0.01%			1.65	1.73	12	2	3.38	NCLSLT
NBB0212_4-25	25	4	12		53364.0	0.10%			5.84	5.23	18	3	11.06	NCLSLT
NBB0312_4-25	25	4	12		54137.8	0.01%			3.62	2.27	12	2	5.89	NCLSLT
NBB0412_4-25	25	4	12		54983.3	0.01%			1.34	1.21	12	2	2.55	NCLSLT
NBB0512_4-25	25	4	12		57206.5	0.14%			1.43	3.01	24	4	4.44	NCLSLT
NBB0612_4-25	25	4	12		50724.9	0.01%			0.95	2.26	18	3	3.20	NCLSLT
NBB0712_4-25	25	4	12		55636.1	0.10%			9.91	6.46	18	3	16.37	NCLSLT
NBB0812_4-25	25	4	12		54135.6	0.03%			1.55	1.99	12	2	3.54	NCLSLT
NBB0912_4-25	25	4	12		54964.9	0.08%			5.16	18.42	24	4	23.58	NCLSLT
NBB0018_4-25	25	4	18		78138.4	0.04%			10.82	9.87	16	2	20.69	NCLSLT
NBB0118_4-25	25	4	18		83918.6	0.00%			3.47	4.01	16	2	7.48	NCLSLT
NBB0218_4-25	25	4	18		81006.5	0.07%			17.14	34.46	32	4	51.60	NCLSLT
NBB0318_4-25	25	4	18		80538.9	0.06%			6.61	5.80	16	2	12.42	NCLSLT
NBB0418_4-25	25	4	18		83348.5	0.00%			2.02	2.07	16	2	4.09	NCLSLT
NBB0518_4-25	25	4	18		84457.2	0.07%			6.53	13.62	24	3	20.14	NCLSLT
NBB0618_4-25	25	4	18		77414.8	0.00%			2.37	2.53	16	2	4.91	NCLSLT
NBB0718_4-25	25	4	18		82787.2	0.14%			27.45	36.67	24	3	64.13	NCLSLT
NBB0818_4-25	25	4	18		78540.3	0.02%			3.41	3.57	16	2	6.98	NCLSLT
NBB0918_4-25	25	4	18		82454.2	0.08%			17.20	14.61	16	2	31.80	NCLSLT
NBB006_4-50	50	4	6		54652.3	0.02%			0.92	0.67	10	2	1.59	NCLSLT
NBB016_4-50	50	4	6		55454.7	0.07%			1.78	0.74	10	2	2.52	NCLSLT
NBB026_4-50	50	4	6		56067.5	0.03%			0.78	0.93	10	2	1.71	NCLSLT
NBB036_4-50	50	4	6		55327.7	0.10%			2.73	3.45	10	2	6.18	NCLSLT
NBB046_4-50	50	4	6		56958.2	0.07%			3.88	5.09	10	2	8.98	NCLSLT
NBB056_4-50	50	4	6		57378.0	0.01%			1.63	0.91	10	2	2.54	NCLSLT
NBB066_4-50	50	4	6		52879.0	0.02%			1.01	1.70	15	3	2.71	NCLSLT
NBB076_4-50	50	4	6		51678.0	0.00%			1.97	3.04	20	4	5.01	NCLSLT
NBB086_4-50	50	4	6		52934.3	0.02%			1.28	1.23	10	2	2.51	NCLSLT
NBB096_4-50	50	4	6		60170.2	0.01%			1.26	1.00	10	2	2.26	NCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_4-50	50	4	12		110477.4	0.03%			6.37	29.41	24	4	35.78	NCLSLT
NBB0112_4-50	50	4	12		108513.3	0.03%			2.04	3.41	18	3	5.45	NCLSLT
NBB0212_4-50	50	4	12		108039.9	0.02%			4.48	4.73	18	3	9.21	NCLSLT
NBB0312_4-50	50	4	12		110208.2	0.03%			8.90	13.75	24	4	22.66	NCLSLT
NBB0412_4-50	50	4	12		109735.5	0.05%			9.65	21.47	18	3	31.12	NCLSLT
NBB0512_4-50	50	4	12		112059.5	0.04%			1.79	1.86	12	2	3.65	NCLSLT
NBB0612_4-50	50	4	12		104078.4	0.06%			1.86	2.60	18	3	4.46	NCLSLT
NBB0712_4-50	50	4	12		106675.3	0.06%			11.20	38.97	24	4	50.17	NCLSLT
NBB0812_4-50	50	4	12		106548.5	0.03%			4.19	2.98	18	3	7.18	NCLSLT
NBB0912_4-50	50	4	12		114413.6	0.03%			7.08	5.78	24	4	12.87	NCLSLT
NBB0018_4-50	50	4	18		160121.6	0.03%			12.59	8.51	16	2	21.10	NCLSLT
NBB0118_4-50	50	4	18		161845.8	0.02%			8.95	10.35	24	3	19.30	NCLSLT
NBB0218_4-50	50	4	18		162914.4	0.01%			16.26	13.27	24	3	29.53	NCLSLT
NBB0318_4-50	50	4	18		163423.8	0.06%			26.98	65.76	32	4	92.74	NCLSLT
NBB0418_4-50	50	4	18		166636.9	0.07%			32.14	78.73	32	4	110.87	NCLSLT
NBB0518_4-50	50	4	18		168116.5	0.02%			8.16	6.65	16	2	14.81	NCLSLT
NBB0618_4-50	50	4	18		156383.4	0.02%			6.62	5.52	16	2	12.15	NCLSLT
NBB0718_4-50	50	4	18		161837.2	0.08%			32.19	33.14	16	2	65.33	NCLSLT
NBB0818_4-50	50	4	18		157368.8	0.01%			4.34	5.75	24	3	10.08	NCLSLT
NBB0918_4-50	50	4	18		168541.4	0.01%			10.50	11.50	16	2	22.00	NCLSLT
NBB006_6-6	6	6	6		5717.1	0.00%			0.12	0.06	5	1	0.18	NCLSLT
NBB016_6-6	6	6	6		7371.0	0.15%			0.40	0.91	15	3	1.31	NCLSLT
NBB026_6-6	6	6	6		7014.1	0.00%			0.11	0.16	10	2	0.28	NCLSLT
NBB036_6-6	6	6	6		7459.7	0.00%			0.13	0.18	10	2	0.31	NCLSLT
NBB046_6-6	6	6	6		8193.7	0.30%			0.36	0.18	5	1	0.54	NCLSLT
NBB056_6-6	6	6	6		8078.2	0.13%			0.28	0.10	5	1	0.38	NCLSLT
NBB066_6-6	6	6	6		6775.2	0.01%			0.17	0.09	5	1	0.25	NCLSLT
NBB076_6-6	6	6	6		7827.1	0.00%			0.19	0.15	10	2	0.34	NCLSLT
NBB086_6-6	6	6	6		6726.0	0.00%			0.13	0.07	5	1	0.20	NCLSLT
NBB096_6-6	6	6	6		7615.0	0.18%			0.47	0.57	10	2	1.04	NCLSLT
NBB0012_6-6	6	6	12		12206.9	0.03%			0.22	0.25	12	2	0.47	NCLSLT
NBB0112_6-6	6	6	12		14401.9	0.00%			0.46	0.35	6	1	0.81	NCLSLT
NBB0212_6-6	6	6	12		14370.6	0.03%			0.54	0.47	12	2	1.01	NCLSLT
NBB0312_6-6	6	6	12		14880.8	0.02%			0.51	0.56	12	2	1.07	NCLSLT
NBB0412_6-6	6	6	12		15154.8	0.12%			0.66	0.51	6	1	1.17	NCLSLT
NBB0512_6-6	6	6	12		14836.7	0.00%			0.68	1.12	18	3	1.80	NCLSLT
NBB0612_6-6	6	6	12		12891.1	0.11%			0.60	0.45	6	1	1.05	NCLSLT
NBB0712_6-6	6	6	12		15322.9	0.00%			0.29	0.62	18	3	0.91	NCLSLT
NBB0812_6-6	6	6	12		12700.8	0.01%			0.55	0.42	12	2	0.97	NCLSLT
NBB0912_6-6	6	6	12		14404.3	0.04%			0.67	1.01	12	2	1.68	NCLSLT
NBB0018_6-6	6	6	18		18070.8	0.00%			0.39	0.45	16	2	0.84	NCLSLT
NBB0218_6-6	6	6	18		20165.0	0.05%			1.38	2.27	24	3	3.65	NCLSLT
NBB0318_6-6	6	6	18		20743.5	0.00%			0.70	1.06	16	2	1.76	NCLSLT
NBB0418_6-6	6	6	18		22539.2	0.07%			1.27	1.79	16	2	3.05	NCLSLT
NBB0518_6-6	6	6	18		22527.2	0.07%			1.41	2.49	24	3	3.90	NCLSLT
NBB0618_6-6	6	6	18		20306.9	0.00%			2.31	4.02	24	3	6.32	NCLSLT
NBB0718_6-6	6	6	18		22124.2	0.01%			1.07	1.54	24	3	2.61	NCLSLT
NBB0818_6-6	6	6	18		20380.2	0.23%			1.34	1.37	16	2	2.71	NCLSLT
NBB0918_6-6	6	6	18		21826.6	0.03%			1.59	2.33	16	2	3.91	NCLSLT
NBB006_6-12	12	6	6		12828.8	0.00%			0.42	0.48	10	2	0.90	NCLSLT
NBB016_6-12	12	6	6		13173.1	0.07%			1.15	0.82	10	2	1.97	NCLSLT
NBB026_6-12	12	6	6		12159.0	0.03%			0.45	0.29	5	1	0.73	NCLSLT
NBB036_6-12	12	6	6		13017.9	0.00%			0.21	0.30	10	2	0.51	NCLSLT
NBB046_6-12	12	6	6		12812.2	0.00%			0.39	0.43	10	2	0.81	NCLSLT
NBB056_6-12	12	6	6		12413.3	0.02%			0.35	0.51	10	2	0.86	NCLSLT
NBB066_6-12	12	6	6		11735.0	0.06%			0.48	0.48	10	2	0.96	NCLSLT
NBB076_6-12	12	6	6		13651.8	0.05%			1.39	2.34	20	4	3.73	NCLSLT
NBB086_6-12	12	6	6		13544.5	0.12%			0.63	0.91	10	2	1.54	NCLSLT
NBB096_6-12	12	6	6		14442.4	0.11%			0.61	0.59	10	2	1.20	NCLSLT
NBB0012_6-12	12	6	12		24292.2	0.01%			0.96	1.05	12	2	2.01	NCLSLT
NBB0112_6-12	12	6	12		25800.7	0.07%			1.19	1.56	12	2	2.75	NCLSLT
NBB0212_6-12	12	6	12		24295.3	0.03%			3.14	0.97	6	1	4.11	NCLSLT
NBB0312_6-12	12	6	12		26668.2	0.02%			0.99	1.03	12	2	2.02	NCLSLT
NBB0412_6-12	12	6	12		25092.1	0.00%			0.78	1.16	12	2	1.94	NCLSLT
NBB0512_6-12	12	6	12		26453.2	0.17%			1.19	1.03	6	1	2.22	NCLSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0612_6-12	12	6	12		23746.1	0.10%			1.54	2.17	12	2	3.71	NCLSLT
NBB0712_6-12	12	6	12		28198.8	0.07%			3.31	7.35	18	3	10.67	NCLSLT
NBB0812_6-12	12	6	12		26080.8	0.17%			3.11	3.45	12	2	6.56	NCLSLT
NBB0912_6-12	12	6	12		27503.9	0.00%			1.61	2.15	12	2	3.75	NCLSLT
NBB0018_6-12	12	6	18		36609.7	0.00%			2.46	1.56	8	1	4.02	NCLSLT
NBB0118_6-12	12	6	18		41384.9	0.07%			4.73	5.51	16	2	10.24	NCLSLT
NBB0218_6-12	12	6	18		37074.7	0.05%			2.89	7.24	24	3	10.13	NCLSLT
NBB0318_6-12	12	6	18		38612.3	0.00%			2.04	2.69	16	2	4.73	NCLSLT
NBB0418_6-12	12	6	18		37154.6	0.01%			1.94	2.68	16	2	4.63	NCLSLT
NBB0518_6-12	12	6	18		40706.1	0.02%			2.67	3.73	16	2	6.40	NCLSLT
NBB0618_6-12	12	6	18		37561.5	0.10%			8.95	15.79	16	2	24.74	NCLSLT
NBB0718_6-12	12	6	18		41765.9	0.23%			19.94	27.73	24	3	47.66	NCLSLT
NBB0818_6-12	12	6	18		39695.1	0.28%			23.47	43.12	32	4	66.59	NCLSLT
NBB0918_6-12	12	6	18		41514.8	0.18%			9.64	12.73	16	2	22.37	NCLSLT
NBB006_6-25	25	6	6		25741.9	0.05%			8.47	15.67	15	3	24.14	NCLSLT
NBB016_6-25	25	6	6		25450.3	0.04%			2.02	1.54	5	1	3.56	NCLSLT
NBB026_6-25	25	6	6		26842.7	0.06%			0.81	1.09	10	2	1.90	NCLSLT
NBB036_6-25	25	6	6		26883.9	0.06%			4.79	7.53	15	3	12.32	NCLSLT
NBB046_6-25	25	6	6		28624.4	0.24%			11.80	17.78	10	2	29.58	NCLSLT
NBB056_6-25	25	6	6		26352.2	0.02%			1.88	2.01	10	2	3.89	NCLSLT
NBB066_6-25	25	6	6		25363.9	0.00%			0.86	1.56	10	2	2.42	NCLSLT
NBB076_6-25	25	6	6		28026.4	0.00%			1.53	0.75	5	1	2.28	NCLSLT
NBB086_6-25	25	6	6		26727.7	0.04%			3.69	3.51	15	3	7.20	NCLSLT
NBB096_6-25	25	6	6		26421.6	0.02%			1.32	1.69	10	2	3.01	NCLSLT
NBB0012_6-25	25	6	12		52611.0	0.25%			16.23	22.56	12	2	38.79	NCLSLT
NBB0112_6-25	25	6	12		52829.4	0.35%			20.25	30.58	12	2	50.83	NCLSLT
NBB0212_6-25	25	6	12		54100.8	0.11%			7.52	11.52	24	4	19.03	NCLSLT
NBB0312_6-25	25	6	12		52572.3	0.21%			18.01	12.21	12	2	30.22	NCLSLT
NBB0412_6-25	25	6	12		56138.6	0.21%			25.06	46.51	18	3	71.57	NCLSLT
NBB0512_6-25	25	6	12		51914.4	0.13%			13.35	11.87	12	2	25.22	NCLSLT
NBB0612_6-25	25	6	12		51037.6	0.00%			1.64	1.77	12	2	3.41	NCLSLT
NBB0712_6-25	25	6	12		52894.2	0.18%			14.30	13.08	18	3	27.37	NCLSLT
NBB0812_6-25	25	6	12		51275.6	0.00%			11.30	14.45	24	4	25.76	NCLSLT
NBB0912_6-25	25	6	12		53720.2	0.05%			9.19	11.24	12	2	20.44	NCLSLT
NBB0018_6-25	25	6	18		76628.4	0.27%			39.96	87.88	16	2	127.84	NCLSLT
NBB0118_6-25	25	6	18		79528.2	0.11%			30.84	38.73	24	3	69.57	NCLSLT
NBB0218_6-25	25	6	18		81783.5	0.06%			20.23	11.08	16	2	31.31	NCLSLT
NBB0318_6-25	25	6	18		80004.5	0.25%			62.78	145.02	24	3	207.81	NCLSLT
NBB0418_6-25	25	6	18		85102.3	0.18%			49.33	58.99	16	2	108.32	NCLSLT
NBB0518_6-25	25	6	18		81136.4	0.11%			31.51	29.88	16	2	61.39	NCLSLT
NBB0618_6-25	25	6	18		76376.2	0.00%			6.90	5.63	16	2	12.53	NCLSLT
NBB0718_6-25	25	6	18		77900.3	0.12%			36.88	36.85	16	2	73.73	NCLSLT
NBB0818_6-25	25	6	18		75247.2	0.08%			25.42	39.96	24	3	65.38	NCLSLT
NBB0918_6-25	25	6	18		81482.6	0.08%			20.04	16.41	16	2	36.46	NCLSLT
NBB006_6-50	50	6	6		50636.5	0.00%			4.25	8.44	15	3	12.69	NCLSLT
NBB016_6-50	50	6	6		50694.8	0.02%			3.96	3.68	15	3	7.64	NCLSLT
NBB026_6-50	50	6	6		52247.3	0.05%			8.36	36.52	25	5	44.88	NCLSLT
NBB036_6-50	50	6	6		51745.7	0.00%			2.13	3.40	15	3	5.53	NCLSLT
NBB046_6-50	50	6	6		54133.1	0.15%			7.35	19.53	15	3	26.88	NCLSLT
NBB056_6-50	50	6	6		52831.8	0.02%			8.02	9.01	15	3	17.03	NCLSLT
NBB066_6-50	50	6	6		52052.4	0.03%			7.58	6.78	10	2	14.36	NCLSLT
NBB076_6-50	50	6	6		54049.2	0.05%			5.52	1.66	10	2	7.19	NCLSLT
NBB086_6-50	50	6	6		50953.0	0.01%			7.45	1.52	10	2	8.96	NCLSLT
NBB096_6-50	50	6	6		50722.4	0.02%			2.54	4.21	15	3	6.75	NCLSLT
NBB0012_6-50	50	6	12		102555.7	0.03%			9.17	9.54	12	2	18.71	NCLSLT
NBB0112_6-50	50	6	12		101638.3	0.06%			20.09	31.85	24	4	51.94	NCLSLT
NBB0212_6-50	50	6	12		105232.6	0.08%			33.83	48.30	12	2	82.14	NCLSLT
NBB0312_6-50	50	6	12		102685.5	0.07%			10.73	15.51	12	2	26.24	NCLSLT
NBB0412_6-50	50	6	12		109886.6	0.09%			35.75	63.23	18	3	98.98	NCLSLT
NBB0512_6-50	50	6	12		105520.1	0.08%			16.11	37.43	18	3	53.55	NCLSLT
NBB0612_6-50	50	6	12		102233.0	0.12%			29.86	59.82	18	3	89.67	NCLSLT
NBB0712_6-50	50	6	12		107647.5	0.05%			15.11	14.07	18	3	29.17	NCLSLT
NBB0812_6-50	50	6	12		99997.5	0.05%			11.34	6.74	12	2	18.08	NCLSLT
NBB0912_6-50	50	6	12		102478.0	0.09%			17.07	24.83	24	4	41.90	NCLSLT
NBB0018_6-50	50	6	18		152978.7	0.06%			38.88	45.71	16	2	84.59	NCLSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_6-50	50	6	18		151120.1	0.04%			39.27	39.14	16	2	78.41	NCLSLT
NBB0218_6-50	50	6	18		154644.7	0.07%			55.01	216.59	48	6	271.60	NCLSLT
NBB0318_6-50	50	6	18		154351.1	0.03%			32.50	67.40	32	4	99.90	NCLSLT
NBB0418_6-50	50	6	18		164999.8	0.07%			71.23	135.24	32	4	206.48	NCLSLT
NBB0518_6-50	50	6	18		155570.9	0.09%			53.86	38.53	16	2	92.39	NCLSLT
NBB0618_6-50	50	6	18		154582.2	0.13%			68.80	221.50	32	4	290.30	NCLSLT
NBB0718_6-50	50	6	18		159227.7	0.04%			47.05	61.78	24	3	108.83	NCLSLT
NBB0818_6-50	50	6	18		151174.4	0.04%			33.68	63.52	32	4	97.20	NCLSLT
NBB0918_6-50	50	6	18		154289.2	0.03%			46.83	29.21	16	2	76.04	NCLSLT
AAA006_2-6	6	2	6		14136.5	0.00%			0.16	0.10	10	2	0.26	TCHSHT
AAA016_2-6	6	2	6		11879.1	2.24%			0.18	0.05	5	1	0.23	TCHSHT
AAA026_2-6	6	2	6		14956.5	0.00%			0.10	0.12	10	2	0.23	TCHSHT
AAA036_2-6	6	2	6		16398.5	0.00%			0.06	0.04	5	1	0.11	TCHSHT
AAA046_2-6	6	2	6		18079.7	4.06%			0.25	0.42	10	2	0.66	TCHSHT
AAA056_2-6	6	2	6		16983.2	0.00%			0.15	0.19	10	2	0.34	TCHSHT
AAA066_2-6	6	2	6		17629.2	4.76%			0.19	0.38	15	3	0.57	TCHSHT
AAA076_2-6	6	2	6		17900.2	3.47%			0.21	0.11	5	1	0.32	TCHSHT
AAA086_2-6	6	2	6		13094.4	0.00%			0.09	0.06	10	2	0.14	TCHSHT
AAA096_2-6	6	2	6		13344.2	1.46%			0.12	0.10	10	2	0.23	TCHSHT
AAA0012_2-6	6	2	12		24837.3	1.11%			0.29	0.55	18	3	0.84	TCHSHT
AAA0112_2-6	6	2	12		24434.9	0.75%			0.41	0.47	12	2	0.88	TCHSHT
AAA0212_2-6	6	2	12		27472.1	0.00%			0.19	0.07	6	1	0.25	TCHSHT
AAA0412_2-6	6	2	12		29131.2	1.96%			0.52	0.72	12	2	1.24	TCHSHT
AAA0512_2-6	6	2	12		31995.7	1.00%			0.25	0.44	18	3	0.69	TCHSHT
AAA0612_2-6	6	2	12		29177.5	1.14%			0.26	0.33	12	2	0.58	TCHSHT
AAA0712_2-6	6	2	12		28135.4	2.43%			0.32	0.17	6	1	0.49	TCHSHT
AAA0812_2-6	6	2	12		22650.3	0.69%			0.22	0.36	18	3	0.58	TCHSHT
AAA0912_2-6	6	2	12		28005.6	0.88%			0.33	0.20	6	1	0.53	TCHSHT
AAA0018_2-6	6	2	18		34089.0	1.36%			0.86	1.30	16	2	2.17	TCHSHT
AAA0118_2-6	6	2	18		34699.0	1.47%			0.65	1.64	24	3	2.29	TCHSHT
AAA0218_2-6	6	2	18		40755.8	2.62%			0.62	0.61	16	2	1.23	TCHSHT
AAA0418_2-6	6	2	18		37482.5	0.72%			0.65	0.73	24	3	1.38	TCHSHT
AAA0518_2-6	6	2	18		43339.5	1.40%			0.49	0.63	16	2	1.12	TCHSHT
AAA0618_2-6	6	2	18		40362.8	2.22%			0.55	0.84	24	3	1.39	TCHSHT
AAA0718_2-6	6	2	18		39900.9	0.70%			0.49	0.96	24	3	1.45	TCHSHT
AAA0818_2-6	6	2	18		32199.5	0.55%			0.48	0.82	24	3	1.30	TCHSHT
AAA0918_2-6	6	2	18		36886.8	1.66%			0.70	1.04	24	3	1.74	TCHSHT
AAA006_2-12	12	2	6		22326.6	0.13%			0.20	0.09	5	1	0.29	TCHSHT
AAA016_2-12	12	2	6		25513.8	0.00%			0.17	0.09	5	1	0.26	TCHSHT
AAA026_2-12	12	2	6		27431.5	1.85%			0.31	0.54	10	2	0.86	TCHSHT
AAA036_2-12	12	2	6		30036.5	0.71%			0.37	0.41	15	3	0.78	TCHSHT
AAA046_2-12	12	2	6		26165.3	0.93%			0.25	0.11	5	1	0.35	TCHSHT
AAA056_2-12	12	2	6		30002.2	0.46%			0.29	0.21	10	2	0.50	TCHSHT
AAA066_2-12	12	2	6		26342.1	0.62%			0.19	0.10	5	1	0.29	TCHSHT
AAA076_2-12	12	2	6		26098.5	0.00%			0.19	0.06	5	1	0.25	TCHSHT
AAA086_2-12	12	2	6		24582.2	0.00%			0.20	0.15	5	1	0.35	TCHSHT
AAA096_2-12	12	2	6		28332.6	0.66%			0.44	0.24	5	1	0.68	TCHSHT
AAA0012_2-12	12	2	12		42935.0	1.98%			0.69	0.87	12	2	1.56	TCHSHT
AAA0112_2-12	12	2	12		42752.6	1.18%			0.58	0.66	12	2	1.24	TCHSHT
AAA0212_2-12	12	2	12		45137.6	0.63%			0.74	0.82	12	2	1.57	TCHSHT
AAA0312_2-12	12	2	12		54268.2	1.26%			1.54	2.05	24	4	3.60	TCHSHT
AAA0412_2-12	12	2	12		45999.9	0.94%			0.42	0.44	12	2	0.86	TCHSHT
AAA0512_2-12	12	2	12		53735.2	0.99%			1.07	0.83	12	2	1.90	TCHSHT
AAA0612_2-12	12	2	12		46651.7	0.43%			0.55	0.99	18	3	1.54	TCHSHT
AAA0712_2-12	12	2	12		49923.2	0.79%			0.61	0.28	6	1	0.90	TCHSHT
AAA0812_2-12	12	2	12		42155.4	0.06%			0.47	0.37	12	2	0.85	TCHSHT
AAA0912_2-12	12	2	12		52330.8	1.04%			0.81	1.22	12	2	2.02	TCHSHT
AAA0118_2-12	12	2	18		63503.8	1.04%			1.76	1.53	16	2	3.29	TCHSHT
AAA0218_2-12	12	2	18		67261.6	1.80%			2.64	12.62	32	4	15.27	TCHSHT
AAA0318_2-12	12	2	18		77259.3	1.79%			1.17	1.38	16	2	2.55	TCHSHT
AAA0418_2-12	12	2	18		68352.8	0.58%			1.84	2.45	24	3	4.29	TCHSHT
AAA0518_2-12	12	2	18		75035.9	0.85%			3.34	6.41	24	3	9.75	TCHSHT
AAA0618_2-12	12	2	18		67822.4	1.07%			1.42	9.16	32	4	10.59	TCHSHT
AAA0718_2-12	12	2	18		68965.4	1.01%			1.10	1.77	24	3	2.87	TCHSHT
AAA0818_2-12	12	2	18		66829.0	1.73%			2.55	5.20	16	2	7.75	TCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0918_2-12	12	2	18		74579.3	1.09%			5.95	9.92	24	3	15.86	TCHSHT
AAA006_2-25	25	2	6		49600.1	0.73%			0.62	0.30	5	1	0.91	TCHSHT
AAA016_2-25	25	2	6		50065.0	0.23%			0.45	0.30	10	2	0.74	TCHSHT
AAA026_2-25	25	2	6		53890.8	0.91%			0.67	0.55	10	2	1.22	TCHSHT
AAA036_2-25	25	2	6		55276.6	0.75%			0.43	0.19	5	1	0.62	TCHSHT
AAA046_2-25	25	2	6		56799.2	1.08%			0.65	0.78	10	2	1.43	TCHSHT
AAA056_2-25	25	2	6		59545.1	1.26%			0.63	0.46	10	2	1.08	TCHSHT
AAA066_2-25	25	2	6		47504.2	0.42%			0.55	0.32	5	1	0.87	TCHSHT
AAA076_2-25	25	2	6		53452.2	0.27%			0.38	0.29	5	1	0.67	TCHSHT
AAA086_2-25	25	2	6		57044.4	0.73%			0.64	0.91	10	2	1.55	TCHSHT
AAA096_2-25	25	2	6		63010.7	0.61%			0.87	0.46	5	1	1.33	TCHSHT
AAA0012_2-25	25	2	12		90857.7	0.56%			3.75	4.69	24	4	8.44	TCHSHT
AAA0112_2-25	25	2	12		96443.4	0.65%			2.19	1.84	18	3	4.04	TCHSHT
AAA0212_2-25	25	2	12		94146.5	1.61%			5.81	3.09	18	3	8.90	TCHSHT
AAA0312_2-25	25	2	12		97779.3	1.53%			4.16	4.28	12	2	8.44	TCHSHT
AAA0412_2-25	25	2	12		96596.8	0.91%			3.30	3.54	12	2	6.84	TCHSHT
AAA0512_2-25	25	2	12		109676.6	1.34%			5.16	10.26	18	3	15.42	TCHSHT
AAA0612_2-25	25	2	12		92495.6	0.52%			2.38	1.20	12	2	3.58	TCHSHT
AAA0712_2-25	25	2	12		97703.8	0.84%			2.20	2.31	12	2	4.51	TCHSHT
AAA0812_2-25	25	2	12		101611.7	1.12%			4.87	6.49	18	3	11.36	TCHSHT
AAA0912_2-25	25	2	12		107090.6	1.41%			6.30	26.00	18	3	32.30	TCHSHT
AAA0018_2-25	25	2	18		131078.3	0.51%			6.99	24.23	32	4	31.22	TCHSHT
AAA0118_2-25	25	2	18		134822.3	0.57%			8.05	29.41	40	5	37.46	TCHSHT
AAA0218_2-25	25	2	18		133212.3	1.03%			24.72	22.86	24	3	47.58	TCHSHT
AAA0318_2-25	25	2	18		145085.5	0.51%			12.13	12.08	24	3	24.21	TCHSHT
AAA0418_2-25	25	2	18		140068.2	1.02%			16.64	31.97	24	3	48.61	TCHSHT
AAA0518_2-25	25	2	18		152675.9	1.09%			25.21	40.15	32	4	65.35	TCHSHT
AAA0618_2-25	25	2	18		129786.2	0.63%			7.94	36.02	32	4	43.96	TCHSHT
AAA0718_2-25	25	2	18		144199.0	0.79%			20.10	42.78	32	4	62.87	TCHSHT
AAA0818_2-25	25	2	18		142231.0	0.93%			20.56	45.60	48	6	66.16	TCHSHT
AAA0918_2-25	25	2	18		153225.6	1.05%			17.43	33.82	40	5	51.25	TCHSHT
AAA006_2-50	50	2	6		97284.5	0.21%			1.26	1.22	15	3	2.48	TCHSHT
AAA016_2-50	50	2	6		100767.4	0.45%			0.72	1.31	10	2	2.03	TCHSHT
AAA026_2-50	50	2	6		99132.4	0.55%			1.93	0.43	5	1	2.36	TCHSHT
AAA036_2-50	50	2	6		106331.4	0.20%			0.70	1.11	10	2	1.81	TCHSHT
AAA046_2-50	50	2	6		113459.5	0.77%			3.35	2.05	10	2	5.41	TCHSHT
AAA056_2-50	50	2	6		110559.2	0.39%			3.00	15.79	20	4	18.79	TCHSHT
AAA066_2-50	50	2	6		99873.4	0.88%			1.51	2.76	15	3	4.27	TCHSHT
AAA076_2-50	50	2	6		106708.3	0.44%			2.01	1.88	15	3	3.90	TCHSHT
AAA086_2-50	50	2	6		103013.0	0.13%			1.35	1.05	10	2	2.40	TCHSHT
AAA096_2-50	50	2	6		108305.5	0.39%			2.28	1.64	10	2	3.92	TCHSHT
AAA0012_2-50	50	2	12		180691.6	0.47%			9.36	17.08	24	4	26.45	TCHSHT
AAA0112_2-50	50	2	12		187670.3	0.56%			5.82	6.93	18	3	12.75	TCHSHT
AAA0212_2-50	50	2	12		181516.3	0.37%			10.03	34.55	24	4	44.58	TCHSHT
AAA0312_2-50	50	2	12		193274.5	0.41%			12.64	15.59	18	3	28.23	TCHSHT
AAA0412_2-50	50	2	12		202725.6	1.13%			26.07	87.79	24	4	113.87	TCHSHT
AAA0512_2-50	50	2	12		199403.2	0.87%			12.51	6.88	12	2	19.39	TCHSHT
AAA0612_2-50	50	2	12		178054.1	0.49%			6.16	11.13	18	3	17.29	TCHSHT
AAA0712_2-50	50	2	12		191571.2	0.79%			27.82	45.64	18	3	73.46	TCHSHT
AAA0812_2-50	50	2	12		183530.4	0.28%			13.99	17.78	18	3	31.78	TCHSHT
AAA0912_2-50	50	2	12		195961.2	0.54%			19.09	28.10	24	4	47.19	TCHSHT
AAA0018_2-50	50	2	18		262758.2	0.36%			25.74	34.92	24	3	60.67	TCHSHT
AAA0118_2-50	50	2	18		270592.5	0.23%			24.60	47.84	32	4	72.44	TCHSHT
AAA0218_2-50	50	2	18		261796.0	0.44%			28.20	73.74	32	4	101.94	TCHSHT
AAA0318_2-50	50	2	18		282716.1	0.25%			20.77	66.57	32	4	87.34	TCHSHT
AAA0418_2-50	50	2	18		292852.7	0.39%			53.46	237.32	48	6	290.79	TCHSHT
AAA0518_2-50	50	2	18		288073.9	0.27%			24.96	79.64	32	4	104.60	TCHSHT
AAA0618_2-50	50	2	18		260199.4	0.40%			27.89	53.14	32	4	81.03	TCHSHT
AAA0718_2-50	50	2	18		274975.2	0.51%			35.50	119.29	32	4	154.79	TCHSHT
AAA0818_2-50	50	2	18		266350.5	0.32%			23.90	86.01	40	5	109.91	TCHSHT
AAA0918_2-50	50	2	18		284878.0	0.50%			32.18	110.48	32	4	142.67	TCHSHT
AAA006_4-6	6	4	6		9819.4	1.84%			0.16	0.08	5	1	0.25	TCHSHT
AAA016_4-6	6	4	6		12351.3	0.74%			0.35	0.29	5	1	0.64	TCHSHT
AAA026_4-6	6	4	6		12294.8	1.84%			0.16	0.10	5	1	0.26	TCHSHT
AAA036_4-6	6	4	6		12727.8	0.89%			0.11	0.11	10	2	0.22	TCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA046_4-6	6	4	6		10831.3	1.31%			0.10	0.12	10	2	0.22	TCHSHT
AAA056_4-6	6	4	6		15481.5	0.62%			0.07	0.05	5	1	0.11	TCHSHT
AAA066_4-6	6	4	6		12598.7	2.47%			0.19	0.09	5	1	0.28	TCHSHT
AAA076_4-6	6	4	6		13765.9	0.00%			0.08	0.09	10	2	0.17	TCHSHT
AAA086_4-6	6	4	6		10116.2	1.75%			0.11	0.10	10	2	0.21	TCHSHT
AAA096_4-6	6	4	6		14770.1	0.00%			0.13	0.08	10	2	0.22	TCHSHT
AAA0012_4-6	6	4	12		17924.9	0.56%			0.32	0.49	12	2	0.81	TCHSHT
AAA0112_4-6	6	4	12		25569.9	1.49%			1.29	1.22	12	2	2.51	TCHSHT
AAA0212_4-6	6	4	12		23371.0	1.37%			0.46	1.06	18	3	1.52	TCHSHT
AAA0312_4-6	6	4	12		26089.4	2.05%			0.27	0.19	12	2	0.46	TCHSHT
AAA0412_4-6	6	4	12		24154.1	2.85%			0.60	0.64	12	2	1.24	TCHSHT
AAA0512_4-6	6	4	12		30700.6	1.45%			0.24	0.21	12	2	0.46	TCHSHT
AAA0612_4-6	6	4	12		21760.8	0.90%			0.29	0.55	24	4	0.84	TCHSHT
AAA0712_4-6	6	4	12		24707.1	1.03%			0.34	0.35	12	2	0.68	TCHSHT
AAA0812_4-6	6	4	12		21130.5	0.00%			0.36	0.52	12	2	0.88	TCHSHT
AAA0912_4-6	6	4	12		26240.5	0.93%			0.20	0.32	18	3	0.52	TCHSHT
AAA0018_4-6	6	4	18		27492.4	0.43%			1.10	1.31	24	3	2.42	TCHSHT
AAA0118_4-6	6	4	18		33654.4	1.00%			1.11	1.88	16	2	2.99	TCHSHT
AAA0218_4-6	6	4	18		33414.3	0.71%			1.26	1.36	24	3	2.62	TCHSHT
AAA0318_4-6	6	4	18		38974.4	0.12%			1.01	1.59	24	3	2.61	TCHSHT
AAA0418_4-6	6	4	18		35239.3	1.33%			1.15	1.00	16	2	2.16	TCHSHT
AAA0518_4-6	6	4	18		43178.4	0.88%			0.58	0.76	16	2	1.34	TCHSHT
AAA0618_4-6	6	4	18		33609.9	0.82%			0.63	0.23	8	1	0.87	TCHSHT
AAA0718_4-6	6	4	18		36952.3	0.07%			0.55	0.43	16	2	0.98	TCHSHT
AAA0818_4-6	6	4	18		28184.4	0.89%			0.50	0.65	16	2	1.15	TCHSHT
AAA0918_4-6	6	4	18		38601.5	0.92%			0.82	1.10	24	3	1.92	TCHSHT
AAA006_4-12	12	4	6		20637.5	1.01%			0.43	0.20	5	1	0.62	TCHSHT
AAA016_4-12	12	4	6		24358.0	2.46%			0.79	1.26	10	2	2.04	TCHSHT
AAA026_4-12	12	4	6		18888.8	0.37%			0.25	0.16	10	2	0.41	TCHSHT
AAA036_4-12	12	4	6		20752.8	0.15%			0.42	0.17	10	2	0.59	TCHSHT
AAA046_4-12	12	4	6		23542.6	2.07%			0.36	0.32	10	2	0.68	TCHSHT
AAA056_4-12	12	4	6		24293.4	0.51%			0.25	0.38	10	2	0.64	TCHSHT
AAA066_4-12	12	4	6		21472.7	1.32%			0.19	0.12	5	1	0.31	TCHSHT
AAA076_4-12	12	4	6		21504.9	0.27%			0.53	0.29	5	1	0.83	TCHSHT
AAA086_4-12	12	4	6		22780.6	0.45%			0.27	0.11	5	1	0.38	TCHSHT
AAA096_4-12	12	4	6		22519.5	1.75%			0.58	0.20	5	1	0.78	TCHSHT
AAA0012_4-12	12	4	12		36985.2	1.09%			1.01	1.73	12	2	2.74	TCHSHT
AAA0112_4-12	12	4	12		42071.9	1.64%			1.79	1.56	12	2	3.35	TCHSHT
AAA0212_4-12	12	4	12		37758.5	0.99%			0.90	1.06	12	2	1.95	TCHSHT
AAA0312_4-12	12	4	12		41881.8	2.72%			0.95	1.11	12	2	2.07	TCHSHT
AAA0412_4-12	12	4	12		43002.3	1.14%			1.29	1.70	18	3	2.99	TCHSHT
AAA0512_4-12	12	4	12		46574.2	1.91%			1.21	1.48	18	3	2.68	TCHSHT
AAA0612_4-12	12	4	12		40570.6	1.37%			1.23	2.77	18	3	4.00	TCHSHT
AAA0712_4-12	12	4	12		43244.0	1.40%			6.90	12.41	18	3	19.31	TCHSHT
AAA0812_4-12	12	4	12		42069.8	0.58%			0.57	0.44	12	2	1.00	TCHSHT
AAA0912_4-12	12	4	12		46511.4	3.98%			4.20	5.88	12	2	10.09	TCHSHT
AAA0018_4-12	12	4	18		54696.1	0.49%			3.67	9.57	40	5	13.23	TCHSHT
AAA0118_4-12	12	4	18		61141.6	1.16%			11.28	31.24	32	4	42.52	TCHSHT
AAA0218_4-12	12	4	18		53804.8	0.00%			1.11	1.60	24	3	2.71	TCHSHT
AAA0318_4-12	12	4	18		62713.9	1.33%			4.67	2.29	16	2	6.96	TCHSHT
AAA0418_4-12	12	4	18		63604.4	1.47%			11.27	10.04	16	2	21.32	TCHSHT
AAA0518_4-12	12	4	18		67443.6	1.72%			5.21	4.58	24	3	9.80	TCHSHT
AAA0618_4-12	12	4	18		59770.1	0.76%			1.58	3.91	32	4	5.48	TCHSHT
AAA0718_4-12	12	4	18		66357.2	1.53%			14.63	38.32	24	3	52.95	TCHSHT
AAA0818_4-12	12	4	18		63883.8	0.70%			5.73	6.13	24	3	11.86	TCHSHT
AAA0918_4-12	12	4	18		64437.5	1.65%			9.51	16.00	24	3	25.51	TCHSHT
AAA006_4-25	25	4	6		38177.2	1.20%			1.96	1.05	10	2	3.01	TCHSHT
AAA016_4-25	25	4	6		46492.8	0.76%			1.42	1.14	10	2	2.56	TCHSHT
AAA026_4-25	25	4	6		43959.6	1.05%			4.46	2.68	10	2	7.14	TCHSHT
AAA036_4-25	25	4	6		43346.9	0.39%			5.36	2.03	15	3	7.39	TCHSHT
AAA046_4-25	25	4	6		44545.0	0.75%			1.60	3.24	15	3	4.84	TCHSHT
AAA056_4-25	25	4	6		48312.0	0.66%			1.02	0.24	5	1	1.27	TCHSHT
AAA066_4-25	25	4	6		38990.1	1.72%			0.81	0.88	15	3	1.69	TCHSHT
AAA076_4-25	25	4	6		43954.4	0.63%			3.01	0.92	10	2	3.93	TCHSHT
AAA086_4-25	25	4	6		40595.0	0.39%			2.42	3.53	10	2	5.95	TCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA096_4-25	25	4	6		46928.7	1.32%			1.25	0.89	10	2	2.14	TCHSHT
AAA0012_4-25	25	4	12		75670.2	0.62%			9.94	14.84	18	3	24.79	TCHSHT
AAA0112_4-25	25	4	12		84305.6	1.12%			12.45	39.17	24	4	51.63	TCHSHT
AAA0212_4-25	25	4	12		80481.3	1.76%			21.45	54.29	18	3	75.74	TCHSHT
AAA0312_4-25	25	4	12		84158.2	0.71%			4.57	20.83	24	4	25.40	TCHSHT
AAA0412_4-25	25	4	12		85082.1	1.17%			11.42	17.44	18	3	28.86	TCHSHT
AAA0512_4-25	25	4	12		87889.1	0.70%			13.94	32.44	18	3	46.38	TCHSHT
AAA0612_4-25	25	4	12		74749.9	0.74%			2.29	5.73	18	3	8.02	TCHSHT
AAA0712_4-25	25	4	12		84446.6	0.66%			8.39	10.08	12	2	18.47	TCHSHT
AAA0812_4-25	25	4	12		79276.9	0.69%			12.86	37.91	24	4	50.76	TCHSHT
AAA0912_4-25	25	4	12		85791.6	1.04%			6.19	9.32	12	2	15.52	TCHSHT
AAA0018_4-25	25	4	18		109936.6	0.70%			14.05	58.62	40	5	72.66	TCHSHT
AAA0118_4-25	25	4	18		122501.3	1.12%			32.83	53.24	24	3	86.07	TCHSHT
AAA0218_4-25	25	4	18		118634.7	1.26%			45.16	79.45	32	4	124.62	TCHSHT
AAA0318_4-25	25	4	18		122686.9	0.80%			21.03	44.36	32	4	65.39	TCHSHT
AAA0418_4-25	25	4	18		125460.8	1.10%			22.39	35.28	24	3	57.67	TCHSHT
AAA0518_4-25	25	4	18		126934.6	0.60%			14.47	36.25	24	3	50.71	TCHSHT
AAA0618_4-25	25	4	18		111278.8	0.43%			7.68	17.13	24	3	24.80	TCHSHT
AAA0718_4-25	25	4	18		123707.7	0.98%			17.84	39.48	24	3	57.32	TCHSHT
AAA0818_4-25	25	4	18		113335.5	0.62%			17.93	48.72	32	4	66.65	TCHSHT
AAA0918_4-25	25	4	18		125306.0	0.52%			9.93	45.43	40	5	55.37	TCHSHT
AAA006_4-50	50	4	6		81728.5	0.05%			3.07	1.21	10	2	4.27	TCHSHT
AAA016_4-50	50	4	6		85021.1	0.20%			4.95	5.76	15	3	10.71	TCHSHT
AAA026_4-50	50	4	6		87511.6	0.53%			7.41	1.74	5	1	9.15	TCHSHT
AAA036_4-50	50	4	6		88685.6	0.84%			7.40	18.20	15	3	25.60	TCHSHT
AAA046_4-50	50	4	6		94764.6	0.49%			9.40	23.98	15	3	33.39	TCHSHT
AAA056_4-50	50	4	6		90013.5	0.65%			6.03	5.74	10	2	11.77	TCHSHT
AAA066_4-50	50	4	6		80127.0	0.30%			5.21	4.54	20	4	9.75	TCHSHT
AAA076_4-50	50	4	6		84223.7	0.72%			5.30	10.46	20	4	15.76	TCHSHT
AAA086_4-50	50	4	6		84256.8	0.56%			6.67	3.98	15	3	10.66	TCHSHT
AAA096_4-50	50	4	6		94803.8	0.12%			7.17	0.57	5	1	7.74	TCHSHT
AAA0012_4-50	50	4	12		160515.5	0.49%			17.90	39.90	18	3	57.80	TCHSHT
AAA0112_4-50	50	4	12		158042.6	0.40%			12.75	30.91	12	2	43.66	TCHSHT
AAA0212_4-50	50	4	12		159561.7	0.52%			19.08	56.46	30	5	75.54	TCHSHT
AAA0312_4-50	50	4	12		167049.2	0.44%			20.26	27.14	24	4	47.40	TCHSHT
AAA0412_4-50	50	4	12		172246.0	0.74%			28.93	96.25	36	6	125.18	TCHSHT
AAA0512_4-50	50	4	12		166075.9	0.67%			23.05	61.63	30	5	84.68	TCHSHT
AAA0612_4-50	50	4	12		150704.0	0.20%			6.91	9.02	18	3	15.93	TCHSHT
AAA0712_4-50	50	4	12		162810.0	0.48%			24.83	45.26	18	3	70.09	TCHSHT
AAA0812_4-50	50	4	12		158254.6	0.68%			21.60	22.00	12	2	43.60	TCHSHT
AAA0912_4-50	50	4	12		173230.2	0.39%			21.71	25.13	30	5	46.84	TCHSHT
AAA0018_4-50	50	4	18		229156.6	0.41%			27.20	82.49	48	6	109.70	TCHSHT
AAA0118_4-50	50	4	18		233090.9	0.33%			29.22	92.34	40	5	121.56	TCHSHT
AAA0218_4-50	50	4	18		238947.7	0.40%			46.08	128.80	32	4	174.87	TCHSHT
AAA0318_4-50	50	4	18		243878.3	0.29%			25.81	87.94	40	5	113.75	TCHSHT
AAA0418_4-50	50	4	18		254152.1	0.42%			30.63	89.06	32	4	119.69	TCHSHT
AAA0518_4-50	50	4	18		245176.3	0.46%			45.06	142.82	48	6	187.88	TCHSHT
AAA0618_4-50	50	4	18		224744.0	0.30%			20.61	25.92	16	2	46.53	TCHSHT
AAA0718_4-50	50	4	18		241690.4	0.41%			41.18	245.27	64	8	286.45	TCHSHT
AAA0818_4-50	50	4	18		228534.0	0.33%			30.51	70.55	32	4	101.06	TCHSHT
AAA0918_4-50	50	4	18		252721.3	0.44%			21.53	104.54	40	5	126.07	TCHSHT
AAA006_6-6	6	6	6		9775.2	1.76%			0.27	0.14	5	1	0.40	TCHSHT
AAA016_6-6	6	6	6		13439.4	2.35%			0.22	0.25	10	2	0.47	TCHSHT
AAA026_6-6	6	6	6		12213.0	0.00%			0.18	0.05	5	1	0.23	TCHSHT
AAA036_6-6	6	6	6		13913.0	0.00%			0.10	0.10	10	2	0.21	TCHSHT
AAA046_6-6	6	6	6		14312.3	1.80%			0.18	0.08	5	1	0.26	TCHSHT
AAA056_6-6	6	6	6		16936.8	3.30%			0.15	0.15	10	2	0.31	TCHSHT
AAA066_6-6	6	6	6		11768.6	1.60%			0.23	0.12	10	2	0.35	TCHSHT
AAA076_6-6	6	6	6		15493.1	0.93%			0.13	0.14	10	2	0.27	TCHSHT
AAA086_6-6	6	6	6		14788.0	1.37%			0.18	0.14	10	2	0.32	TCHSHT
AAA096_6-6	6	6	6		15921.1	0.00%			0.15	0.15	10	2	0.30	TCHSHT
AAA0012_6-6	6	6	12		20203.4	1.70%			0.92	1.26	18	3	2.18	TCHSHT
AAA0112_6-6	6	6	12		24462.1	0.95%			0.50	0.57	12	2	1.07	TCHSHT
AAA0212_6-6	6	6	12		24099.4	0.08%			0.39	0.62	18	3	1.00	TCHSHT
AAA0312_6-6	6	6	12		27456.7	0.82%			0.32	0.40	18	3	0.72	TCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0412_6-6	6	6	12		27019.8	0.52%			0.82	0.80	18	3	1.63	TCHSHT
AAA0512_6-6	6	6	12		29361.3	2.69%			0.94	0.32	12	2	1.26	TCHSHT
AAA0612_6-6	6	6	12		22968.7	0.54%			0.49	0.45	12	2	0.94	TCHSHT
AAA0712_6-6	6	6	12		29374.8	2.26%			0.48	0.62	12	2	1.10	TCHSHT
AAA0812_6-6	6	6	12		27391.7	2.94%			0.80	0.64	12	2	1.44	TCHSHT
AAA0912_6-6	6	6	12		30342.4	0.98%			0.42	0.30	12	2	0.72	TCHSHT
AAA0018_6-6	6	6	18		29222.0	0.52%			1.34	1.45	16	2	2.80	TCHSHT
AAA0218_6-6	6	6	18		32674.0	0.06%			0.85	0.78	16	2	1.63	TCHSHT
AAA0318_6-6	6	6	18		38451.6	0.96%			1.12	1.26	24	3	2.38	TCHSHT
AAA0418_6-6	6	6	18		39324.7	0.52%			1.79	2.34	32	4	4.13	TCHSHT
AAA0518_6-6	6	6	18		44635.7	2.06%			2.92	11.72	48	6	14.64	TCHSHT
AAA0618_6-6	6	6	18		33657.5	0.18%			0.72	1.06	24	3	1.78	TCHSHT
AAA0718_6-6	6	6	18		42359.9	1.01%			1.96	1.18	16	2	3.14	TCHSHT
AAA0818_6-6	6	6	18		43194.5	1.81%			1.50	1.19	16	2	2.69	TCHSHT
AAA0918_6-6	6	6	18		46408.8	1.11%			5.00	4.08	32	4	9.08	TCHSHT
AAA006_6-12	12	6	6		20776.8	0.97%			0.44	0.15	5	1	0.59	TCHSHT
AAA016_6-12	12	6	6		20892.8	0.21%			1.71	0.30	5	1	2.01	TCHSHT
AAA026_6-12	12	6	6		19600.4	0.23%			0.41	0.16	5	1	0.57	TCHSHT
AAA036_6-12	12	6	6		20856.3	1.52%			0.47	0.14	5	1	0.61	TCHSHT
AAA046_6-12	12	6	6		18843.9	0.12%			0.25	0.21	10	2	0.46	TCHSHT
AAA056_6-12	12	6	6		20474.6	1.28%			0.31	0.44	10	2	0.75	TCHSHT
AAA066_6-12	12	6	6		18539.9	1.13%			0.36	0.13	5	1	0.50	TCHSHT
AAA076_6-12	12	6	6		24506.2	2.18%			1.26	0.27	5	1	1.54	TCHSHT
AAA086_6-12	12	6	6		21175.4	1.10%			0.47	0.32	10	2	0.79	TCHSHT
AAA096_6-12	12	6	6		24049.4	0.29%			0.32	0.36	15	3	0.68	TCHSHT
AAA0012_6-12	12	6	12		38214.5	0.80%			1.34	1.58	18	3	2.92	TCHSHT
AAA0112_6-12	12	6	12		40380.1	0.70%			1.04	0.93	12	2	1.97	TCHSHT
AAA0212_6-12	12	6	12		38260.1	0.83%			5.63	1.90	6	1	7.53	TCHSHT
AAA0312_6-12	12	6	12		40799.0	0.58%			4.08	1.58	18	3	5.67	TCHSHT
AAA0412_6-12	12	6	12		36486.3	0.45%			1.47	1.88	18	3	3.35	TCHSHT
AAA0512_6-12	12	6	12		42561.3	1.52%			2.32	0.99	12	2	3.31	TCHSHT
AAA0612_6-12	12	6	12		35440.2	1.79%			0.87	1.81	18	3	2.68	TCHSHT
AAA0712_6-12	12	6	12		47807.7	1.73%			9.13	20.55	18	3	29.68	TCHSHT
AAA0812_6-12	12	6	12		39534.2	1.23%			4.46	2.64	12	2	7.10	TCHSHT
AAA0912_6-12	12	6	12		44560.4	1.21%			1.15	2.04	12	2	3.20	TCHSHT
AAA0018_6-12	12	6	18		57206.8	1.05%			4.22	5.59	16	2	9.81	TCHSHT
AAA0118_6-12	12	6	18		62581.0	1.27%			11.69	4.55	16	2	16.25	TCHSHT
AAA0218_6-12	12	6	18		56177.1	1.10%			7.28	4.67	24	3	11.95	TCHSHT
AAA0318_6-12	12	6	18		58213.4	0.85%			5.05	10.91	32	4	15.96	TCHSHT
AAA0418_6-12	12	6	18		53102.3	0.48%			2.47	2.23	16	2	4.70	TCHSHT
AAA0518_6-12	12	6	18		63464.5	1.35%			5.36	6.12	24	3	11.48	TCHSHT
AAA0618_6-12	12	6	18		54650.9	0.33%			4.40	3.91	24	3	8.31	TCHSHT
AAA0718_6-12	12	6	18		69484.8	1.94%			13.91	27.22	16	2	41.13	TCHSHT
AAA0818_6-12	12	6	18		58845.1	2.14%			8.76	7.43	16	2	16.19	TCHSHT
AAA0918_6-12	12	6	18		66095.7	0.98%			5.84	3.14	16	2	8.98	TCHSHT
AAA006_6-25	25	6	6		39911.6	0.38%			2.81	0.80	5	1	3.62	TCHSHT
AAA016_6-25	25	6	6		40504.3	1.20%			4.57	1.06	10	2	5.64	TCHSHT
AAA026_6-25	25	6	6		42263.1	0.99%			1.25	1.30	10	2	2.55	TCHSHT
AAA036_6-25	25	6	6		41153.5	0.33%			1.63	3.07	20	4	4.70	TCHSHT
AAA046_6-25	25	6	6		43506.3	0.91%			13.43	15.54	10	2	28.96	TCHSHT
AAA056_6-25	25	6	6		41034.1	1.36%			3.00	0.67	10	2	3.68	TCHSHT
AAA066_6-25	25	6	6		39606.1	0.93%			4.87	5.48	10	2	10.35	TCHSHT
AAA076_6-25	25	6	6		43200.4	0.63%			1.32	1.12	15	3	2.45	TCHSHT
AAA086_6-25	25	6	6		41231.3	0.77%			3.58	0.67	5	1	4.25	TCHSHT
AAA096_6-25	25	6	6		43051.9	1.21%			1.61	0.50	5	1	2.11	TCHSHT
AAA0012_6-25	25	6	12		77990.8	1.62%			13.96	44.90	24	4	58.87	TCHSHT
AAA0112_6-25	25	6	12		80920.3	2.10%			21.60	62.50	24	4	84.11	TCHSHT
AAA0212_6-25	25	6	12		80915.3	1.21%			14.83	17.49	18	3	32.32	TCHSHT
AAA0312_6-25	25	6	12		78847.5	1.60%			18.36	26.51	12	2	44.87	TCHSHT
AAA0412_6-25	25	6	12		82154.5	1.60%			15.09	26.20	12	2	41.28	TCHSHT
AAA0512_6-25	25	6	12		77344.0	0.88%			12.19	28.06	18	3	40.25	TCHSHT
AAA0612_6-25	25	6	12		75512.7	1.66%			9.30	28.90	18	3	38.20	TCHSHT
AAA0712_6-25	25	6	12		78468.3	0.56%			9.89	5.62	18	3	15.51	TCHSHT
AAA0812_6-25	25	6	12		76327.4	1.30%			13.72	32.42	18	3	46.14	TCHSHT
AAA0912_6-25	25	6	12		83543.8	1.48%			13.77	32.28	18	3	46.05	TCHSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0018_6-25	25	6	18		112498.5	1.04%			38.54	46.81	24	3	85.35	TCHSHT
AAA0118_6-25	25	6	18		118576.5	1.13%			32.63	55.66	24	3	88.29	TCHSHT
AAA0218_6-25	25	6	18		121216.0	0.95%			30.91	34.25	16	2	65.16	TCHSHT
AAA0318_6-25	25	6	18		117916.9	1.18%			46.58	107.79	32	4	154.38	TCHSHT
AAA0418_6-25	25	6	18		121581.0	0.96%			28.32	82.70	32	4	111.02	TCHSHT
AAA0518_6-25	25	6	18		118586.0	0.92%			22.97	57.50	32	4	80.47	TCHSHT
AAA0618_6-25	25	6	18		109830.2	0.95%			28.64	56.44	32	4	85.08	TCHSHT
AAA0718_6-25	25	6	18		115780.9	0.76%			19.62	20.83	24	3	40.45	TCHSHT
AAA0818_6-25	25	6	18		110096.3	1.34%			25.56	45.56	24	3	71.12	TCHSHT
AAA0918_6-25	25	6	18		123921.4	1.47%			36.15	57.92	24	3	94.07	TCHSHT
AAA006_6-50	50	6	6		75175.3	0.60%			3.87	5.53	10	2	9.41	TCHSHT
AAA016_6-50	50	6	6		77840.0	0.84%			9.12	5.24	15	3	14.37	TCHSHT
AAA026_6-50	50	6	6		80530.5	0.74%			22.53	26.95	10	2	49.47	TCHSHT
AAA036_6-50	50	6	6		78766.0	0.56%			11.86	7.94	10	2	19.80	TCHSHT
AAA046_6-50	50	6	6		81665.6	1.37%			28.95	33.97	15	3	62.93	TCHSHT
AAA056_6-50	50	6	6		81724.1	0.57%			18.45	6.04	10	2	24.49	TCHSHT
AAA066_6-50	50	6	6		78396.0	0.62%			17.58	16.56	15	3	34.14	TCHSHT
AAA076_6-50	50	6	6		82094.3	0.52%			7.77	46.64	35	7	54.41	TCHSHT
AAA086_6-50	50	6	6		77006.6	0.30%			4.39	3.40	10	2	7.79	TCHSHT
AAA096_6-50	50	6	6		78280.8	0.72%			11.86	4.48	15	3	16.34	TCHSHT
AAA0012_6-50	50	6	12		146194.4	0.55%			16.18	46.78	24	4	62.95	TCHSHT
AAA0112_6-50	50	6	12		149624.2	0.91%			18.67	36.33	18	3	55.00	TCHSHT
AAA0212_6-50	50	6	12		153889.7	0.78%			30.16	56.15	18	3	86.31	TCHSHT
AAA0312_6-50	50	6	12		152059.2	0.47%			18.69	54.96	24	4	73.66	TCHSHT
AAA0412_6-50	50	6	12		159164.8	0.66%			31.21	59.95	24	4	91.16	TCHSHT
AAA0512_6-50	50	6	12		156532.4	0.80%			23.44	83.82	24	4	107.26	TCHSHT
AAA0612_6-50	50	6	12		147730.4	0.73%			32.66	94.51	24	4	127.18	TCHSHT
AAA0712_6-50	50	6	12		156806.1	0.29%			17.09	19.48	18	3	36.57	TCHSHT
AAA0812_6-50	50	6	12		144029.1	0.65%			17.38	36.68	18	3	54.06	TCHSHT
AAA0912_6-50	50	6	12		151578.5	0.80%			17.16	60.83	24	4	77.99	TCHSHT
AAA0018_6-50	50	6	18		216017.4	0.38%			32.67	68.13	32	4	100.80	TCHSHT
AAA0118_6-50	50	6	18		218576.9	0.51%			35.70	74.15	32	4	109.85	TCHSHT
AAA0218_6-50	50	6	18		224301.5	0.65%			53.27	119.58	32	4	172.85	TCHSHT
AAA0318_6-50	50	6	18		226001.5	0.49%			39.97	92.11	32	4	132.07	TCHSHT
AAA0418_6-50	50	6	18		236207.9	0.49%			47.49	110.95	32	4	158.44	TCHSHT
AAA0518_6-50	50	6	18		225766.8	0.63%			45.49	185.29	56	7	230.78	TCHSHT
AAA0618_6-50	50	6	18		219349.2	0.62%			62.59	323.06	56	7	385.65	TCHSHT
AAA0718_6-50	50	6	18		230518.5	0.50%			50.14	170.91	56	7	221.05	TCHSHT
AAA0818_6-50	50	6	18		214663.1	0.32%			25.13	40.72	24	3	65.84	TCHSHT
AAA0918_6-50	50	6	18		224292.9	0.46%			33.62	159.50	56	7	193.11	TCHSHT
AAB006_2-6	6	2	6		14637.3	0.40%			0.14	0.11	5	1	0.25	TCHSLT
AAB016_2-6	6	2	6		12107.4	1.81%			0.16	0.11	5	1	0.27	TCHSLT
AAB026_2-6	6	2	6		15474.8	0.00%			0.09	0.08	10	2	0.17	TCHSLT
AAB046_2-6	6	2	6		19633.1	3.59%			0.24	0.21	5	1	0.45	TCHSLT
AAB056_2-6	6	2	6		17310.9	0.00%			0.17	0.05	5	1	0.23	TCHSLT
AAB066_2-6	6	2	6		17751.3	1.05%			0.18	0.10	10	2	0.28	TCHSLT
AAB076_2-6	6	2	6		18158.4	0.97%			0.15	0.05	5	1	0.20	TCHSLT
AAB086_2-6	6	2	6		13517.5	0.00%			0.13	0.07	10	2	0.20	TCHSLT
AAB096_2-6	6	2	6		14231.2	0.28%			0.19	0.05	5	1	0.24	TCHSLT
AAB0012_2-6	6	2	12		25856.6	1.07%			0.37	0.90	24	4	1.27	TCHSLT
AAB0112_2-6	6	2	12		25261.7	1.52%			0.47	0.66	12	2	1.13	TCHSLT
AAB0212_2-6	6	2	12		28982.4	2.55%			0.24	0.35	12	2	0.59	TCHSLT
AAB0412_2-6	6	2	12		32842.4	0.97%			0.51	0.61	12	2	1.12	TCHSLT
AAB0512_2-6	6	2	12		33921.8	2.10%			0.32	0.63	12	2	0.95	TCHSLT
AAB0612_2-6	6	2	12		31666.2	3.45%			0.31	0.55	12	2	0.86	TCHSLT
AAB0712_2-6	6	2	12		28747.2	2.75%			0.35	0.50	12	2	0.85	TCHSLT
AAB0812_2-6	6	2	12		23398.1	2.41%			0.25	0.11	6	1	0.36	TCHSLT
AAB0912_2-6	6	2	12		29347.2	1.12%			0.40	0.56	12	2	0.96	TCHSLT
AAB0018_2-6	6	2	18		34944.4	1.08%			0.68	1.98	24	3	2.66	TCHSLT
AAB0118_2-6	6	2	18		35516.1	1.01%			0.86	1.26	24	3	2.12	TCHSLT
AAB0218_2-6	6	2	18		41016.5	0.68%			0.52	0.79	16	2	1.31	TCHSLT
AAB0418_2-6	6	2	18		39836.7	3.10%			0.75	0.64	16	2	1.38	TCHSLT
AAB0518_2-6	6	2	18		44580.9	1.43%			0.72	1.04	24	3	1.76	TCHSLT
AAB0618_2-6	6	2	18		41817.8	1.47%			0.67	1.06	24	3	1.73	TCHSLT
AAB0718_2-6	6	2	18		40602.8	0.06%			0.63	0.78	16	2	1.41	TCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0818_2-6	6	2	18		33269.5	1.70%			0.57	0.72	24	3	1.30	TCHSLT
AAB0918_2-6	6	2	18		37690.5	0.90%			0.72	0.60	16	2	1.32	TCHSLT
AAB006_2-12	12	2	6		23252.0	0.69%			0.42	0.69	15	3	1.11	TCHSLT
AAB016_2-12	12	2	6		27042.3	0.74%			0.22	0.16	5	1	0.38	TCHSLT
AAB026_2-12	12	2	6		28146.4	0.00%			0.23	0.08	5	1	0.31	TCHSLT
AAB036_2-12	12	2	6		30480.5	0.24%			0.24	0.69	20	4	0.93	TCHSLT
AAB046_2-12	12	2	6		27055.9	1.64%			0.23	0.09	5	1	0.32	TCHSLT
AAB056_2-12	12	2	6		30766.1	0.93%			0.25	0.13	5	1	0.38	TCHSLT
AAB066_2-12	12	2	6		28179.0	2.96%			0.30	0.47	10	2	0.77	TCHSLT
AAB076_2-12	12	2	6		27368.4	0.57%			0.26	0.24	10	2	0.49	TCHSLT
AAB086_2-12	12	2	6		26340.6	2.46%			0.27	0.46	10	2	0.74	TCHSLT
AAB096_2-12	12	2	6		29042.6	0.71%			0.40	0.51	10	2	0.92	TCHSLT
AAB0012_2-12	12	2	12		43767.2	0.60%			0.76	0.62	12	2	1.38	TCHSLT
AAB0112_2-12	12	2	12		42979.1	0.45%			0.96	1.81	30	5	2.78	TCHSLT
AAB0212_2-12	12	2	12		46284.0	1.34%			1.08	2.90	30	5	3.98	TCHSLT
AAB0312_2-12	12	2	12		56189.6	3.43%			1.07	0.86	12	2	1.94	TCHSLT
AAB0412_2-12	12	2	12		46355.6	0.77%			0.58	0.39	12	2	0.97	TCHSLT
AAB0512_2-12	12	2	12		55263.3	2.28%			1.28	0.47	6	1	1.75	TCHSLT
AAB0612_2-12	12	2	12		47901.1	0.47%			1.00	1.04	18	3	2.04	TCHSLT
AAB0712_2-12	12	2	12		53089.0	0.33%			0.82	0.43	6	1	1.25	TCHSLT
AAB0812_2-12	12	2	12		42842.0	0.44%			0.48	1.09	18	3	1.57	TCHSLT
AAB0912_2-12	12	2	12		55064.6	3.08%			1.48	2.13	18	3	3.62	TCHSLT
AAB0118_2-12	12	2	18		65192.1	1.65%			1.67	2.71	16	2	4.38	TCHSLT
AAB0218_2-12	12	2	18		68689.3	2.34%			4.48	4.38	24	3	8.85	TCHSLT
AAB0318_2-12	12	2	18		78412.1	1.95%			2.97	3.12	16	2	6.09	TCHSLT
AAB0418_2-12	12	2	18		69235.0	0.93%			3.18	4.09	32	4	7.26	TCHSLT
AAB0518_2-12	12	2	18		76727.5	1.96%			3.95	5.96	24	3	9.91	TCHSLT
AAB0618_2-12	12	2	18		69735.1	1.61%			1.54	1.47	16	2	3.01	TCHSLT
AAB0718_2-12	12	2	18		69519.2	0.15%			1.23	4.89	24	3	6.12	TCHSLT
AAB0818_2-12	12	2	18		67436.9	0.99%			3.37	6.48	24	3	9.85	TCHSLT
AAB0918_2-12	12	2	18		76525.5	2.12%			4.84	6.66	24	3	11.50	TCHSLT
AAB006_2-25	25	2	6		50661.6	0.39%			0.79	0.83	10	2	1.62	TCHSLT
AAB016_2-25	25	2	6		51430.3	1.21%			0.49	0.14	5	1	0.63	TCHSLT
AAB026_2-25	25	2	6		56323.5	0.94%			1.23	0.43	5	1	1.67	TCHSLT
AAB036_2-25	25	2	6		56387.1	0.61%			0.53	1.17	15	3	1.70	TCHSLT
AAB046_2-25	25	2	6		58787.2	0.80%			0.86	2.76	15	3	3.62	TCHSLT
AAB056_2-25	25	2	6		60450.1	0.44%			0.89	0.34	5	1	1.23	TCHSLT
AAB066_2-25	25	2	6		48415.2	0.47%			0.63	0.53	10	2	1.16	TCHSLT
AAB076_2-25	25	2	6		54638.1	0.24%			0.53	0.27	5	1	0.80	TCHSLT
AAB086_2-25	25	2	6		58621.7	0.43%			0.88	1.42	15	3	2.30	TCHSLT
AAB096_2-25	25	2	6		65166.2	0.62%			0.89	0.91	10	2	1.80	TCHSLT
AAB0012_2-25	25	2	12		92675.8	0.97%			7.82	9.71	18	3	17.53	TCHSLT
AAB0112_2-25	25	2	12		97735.1	0.65%			3.85	4.50	24	4	8.35	TCHSLT
AAB0212_2-25	25	2	12		96554.5	1.98%			5.34	2.45	12	2	7.79	TCHSLT
AAB0312_2-25	25	2	12		99295.7	1.13%			5.84	8.11	18	3	13.95	TCHSLT
AAB0412_2-25	25	2	12		100362.8	2.44%			6.95	5.44	12	2	12.39	TCHSLT
AAB0512_2-25	25	2	12		112187.7	1.72%			11.97	23.52	18	3	35.49	TCHSLT
AAB0612_2-25	25	2	12		94293.9	0.76%			2.04	3.47	24	4	5.52	TCHSLT
AAB0712_2-25	25	2	12		98539.2	0.86%			7.41	8.80	36	6	16.21	TCHSLT
AAB0812_2-25	25	2	12		103470.2	1.14%			8.60	8.77	24	4	17.38	TCHSLT
AAB0912_2-25	25	2	12		109340.8	1.61%			9.39	7.89	24	4	17.28	TCHSLT
AAB0018_2-25	25	2	18		132643.2	0.81%			13.84	22.73	32	4	36.57	TCHSLT
AAB0118_2-25	25	2	18		136464.1	0.89%			18.11	51.60	40	5	69.71	TCHSLT
AAB0218_2-25	25	2	18		134773.1	0.96%			25.13	43.11	24	3	68.24	TCHSLT
AAB0318_2-25	25	2	18		148212.1	1.10%			28.27	26.01	24	3	54.28	TCHSLT
AAB0418_2-25	25	2	18		142472.3	1.49%			19.96	36.54	24	3	56.51	TCHSLT
AAB0518_2-25	25	2	18		156286.1	1.89%			32.53	80.99	24	3	113.52	TCHSLT
AAB0618_2-25	25	2	18		131454.2	0.84%			14.39	24.90	32	4	39.29	TCHSLT
AAB0718_2-25	25	2	18		146200.1	0.71%			19.23	52.29	24	3	71.53	TCHSLT
AAB0818_2-25	25	2	18		143507.4	0.83%			29.48	79.78	48	6	109.26	TCHSLT
AAB0918_2-25	25	2	18		156234.9	1.15%			17.66	48.50	16	2	66.16	TCHSLT
AAB006_2-50	50	2	6		99936.4	0.72%			1.07	1.01	10	2	2.08	TCHSLT
AAB016_2-50	50	2	6		102488.7	0.42%			1.65	0.79	10	2	2.43	TCHSLT
AAB026_2-50	50	2	6		102351.2	0.84%			2.09	1.86	15	3	3.96	TCHSLT
AAB036_2-50	50	2	6		109272.8	0.57%			2.57	1.04	10	2	3.60	TCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB046_2-50	50	2	6		116667.7	0.55%			7.22	5.44	10	2	12.66	TCHSLT
AAB056_2-50	50	2	6		114446.5	0.43%			1.98	1.78	10	2	3.76	TCHSLT
AAB066_2-50	50	2	6		102296.2	0.34%			2.15	2.23	10	2	4.38	TCHSLT
AAB076_2-50	50	2	6		110690.0	0.63%			3.30	2.62	10	2	5.91	TCHSLT
AAB086_2-50	50	2	6		104918.6	0.20%			1.65	1.48	10	2	3.13	TCHSLT
AAB096_2-50	50	2	6		111524.5	0.41%			3.40	3.55	20	4	6.94	TCHSLT
AAB0012_2-50	50	2	12		183329.6	0.50%			15.45	24.26	18	3	39.72	TCHSLT
AAB0112_2-50	50	2	12		188959.9	0.28%			10.15	13.57	36	6	23.72	TCHSLT
AAB0212_2-50	50	2	12		185204.7	0.34%			20.10	46.02	30	5	66.11	TCHSLT
AAB0312_2-50	50	2	12		196151.1	0.78%			16.16	18.51	18	3	34.67	TCHSLT
AAB0412_2-50	50	2	12		208186.4	1.23%			29.17	89.49	18	3	118.65	TCHSLT
AAB0512_2-50	50	2	12		203080.5	0.73%			14.19	50.34	24	4	64.52	TCHSLT
AAB0612_2-50	50	2	12		181072.1	0.94%			10.87	16.53	18	3	27.40	TCHSLT
AAB0712_2-50	50	2	12		198484.5	1.26%			28.01	85.16	24	4	113.16	TCHSLT
AAB0812_2-50	50	2	12		186694.4	0.55%			16.61	42.31	36	6	58.92	TCHSLT
AAB0912_2-50	50	2	12		200244.1	0.52%			21.32	29.71	18	3	51.03	TCHSLT
AAB0018_2-50	50	2	18		264870.1	0.37%			26.47	92.01	56	7	118.48	TCHSLT
AAB0118_2-50	50	2	18		273349.7	0.47%			36.94	114.31	40	5	151.25	TCHSLT
AAB0218_2-50	50	2	18		265502.3	0.40%			32.79	91.36	48	6	124.14	TCHSLT
AAB0318_2-50	50	2	18		286580.1	0.63%			29.51	121.19	40	5	150.71	TCHSLT
AAB0418_2-50	50	2	18		301141.1	0.65%			65.83	287.39	40	5	353.23	TCHSLT
AAB0518_2-50	50	2	18		292851.1	0.51%			33.77	82.97	24	3	116.73	TCHSLT
AAB0618_2-50	50	2	18		262762.2	0.42%			27.54	40.27	16	2	67.80	TCHSLT
AAB0718_2-50	50	2	18		279830.2	0.51%			48.46	93.07	24	3	141.52	TCHSLT
AAB0818_2-50	50	2	18		268206.9	0.23%			28.32	83.83	32	4	112.15	TCHSLT
AAB0918_2-50	50	2	18		290483.0	0.41%			47.88	214.17	48	6	262.05	TCHSLT
AAB006_4-6	6	4	6		10214.0	2.68%			0.13	0.07	5	1	0.20	TCHSLT
AAB016_4-6	6	4	6		13630.1	0.00%			0.41	0.36	10	2	0.77	TCHSLT
AAB026_4-6	6	4	6		12900.2	0.00%			0.13	0.05	5	1	0.18	TCHSLT
AAB036_4-6	6	4	6		13857.1	0.05%			0.15	0.18	10	2	0.32	TCHSLT
AAB046_4-6	6	4	6		11571.9	0.89%			0.23	0.06	5	1	0.29	TCHSLT
AAB056_4-6	6	4	6		16689.7	1.89%			0.17	0.08	5	1	0.26	TCHSLT
AAB066_4-6	6	4	6		13062.4	2.03%			0.17	0.27	10	2	0.44	TCHSLT
AAB076_4-6	6	4	6		14628.8	0.00%			0.13	0.05	5	1	0.18	TCHSLT
AAB086_4-6	6	4	6		10809.7	2.12%			0.13	0.11	10	2	0.24	TCHSLT
AAB096_4-6	6	4	6		15154.2	0.00%			0.11	0.08	10	2	0.20	TCHSLT
AAB0012_4-6	6	4	12		18435.7	0.00%			0.26	0.26	12	2	0.52	TCHSLT
AAB0112_4-6	6	4	12		27039.5	0.83%			0.89	0.46	6	1	1.35	TCHSLT
AAB0212_4-6	6	4	12		25188.5	1.97%			0.47	0.42	12	2	0.89	TCHSLT
AAB0312_4-6	6	4	12		27441.5	0.16%			0.33	0.31	12	2	0.64	TCHSLT
AAB0412_4-6	6	4	12		25932.4	0.31%			0.73	1.65	24	4	2.38	TCHSLT
AAB0512_4-6	6	4	12		32724.8	2.84%			0.34	0.26	12	2	0.59	TCHSLT
AAB0612_4-6	6	4	12		22811.0	0.30%			0.63	0.26	12	2	0.89	TCHSLT
AAB0712_4-6	6	4	12		25929.4	1.54%			0.27	0.26	12	2	0.54	TCHSLT
AAB0812_4-6	6	4	12		23519.5	1.39%			0.32	0.16	6	1	0.49	TCHSLT
AAB0912_4-6	6	4	12		27478.7	0.47%			0.17	0.18	12	2	0.36	TCHSLT
AAB0018_4-6	6	4	18		28550.0	0.60%			1.00	0.90	16	2	1.90	TCHSLT
AAB0118_4-6	6	4	18		36037.7	1.23%			2.03	1.84	16	2	3.86	TCHSLT
AAB0218_4-6	6	4	18		35678.7	0.67%			1.76	1.45	16	2	3.22	TCHSLT
AAB0318_4-6	6	4	18		41503.3	0.29%			1.28	1.37	24	3	2.66	TCHSLT
AAB0418_4-6	6	4	18		37329.7	1.02%			1.16	0.87	16	2	2.03	TCHSLT
AAB0518_4-6	6	4	18		45103.2	0.45%			0.73	0.66	24	3	1.39	TCHSLT
AAB0618_4-6	6	4	18		36227.1	0.05%			0.97	1.49	16	2	2.46	TCHSLT
AAB0718_4-6	6	4	18		39234.8	1.31%			1.34	3.42	40	5	4.77	TCHSLT
AAB0818_4-6	6	4	18		29138.3	0.02%			0.59	0.33	16	2	0.93	TCHSLT
AAB0918_4-6	6	4	18		39594.9	0.46%			0.55	0.56	16	2	1.12	TCHSLT
AAB006_4-12	12	4	6		21270.0	0.72%			0.32	0.19	5	1	0.51	TCHSLT
AAB016_4-12	12	4	6		25186.9	1.07%			1.19	0.81	10	2	2.00	TCHSLT
AAB026_4-12	12	4	6		19451.1	0.76%			0.36	0.16	5	1	0.53	TCHSLT
AAB036_4-12	12	4	6		21910.7	0.83%			0.52	0.62	10	2	1.14	TCHSLT
AAB046_4-12	12	4	6		24246.6	1.09%			0.49	0.30	5	1	0.79	TCHSLT
AAB056_4-12	12	4	6		25645.7	0.88%			2.67	0.97	10	2	3.64	TCHSLT
AAB066_4-12	12	4	6		22230.0	0.53%			0.33	0.26	10	2	0.59	TCHSLT
AAB076_4-12	12	4	6		22647.6	0.00%			1.52	0.32	5	1	1.83	TCHSLT
AAB086_4-12	12	4	6		23386.8	0.16%			0.23	0.12	5	1	0.35	TCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB096_4-12	12	4	6		24478.2	4.01%			2.01	1.04	10	2	3.05	TCHSLT
AAB0012_4-12	12	4	12		38021.9	1.55%			1.40	1.45	12	2	2.85	TCHSLT
AAB0112_4-12	12	4	12		44180.3	2.21%			6.29	21.78	24	4	28.07	TCHSLT
AAB0212_4-12	12	4	12		38140.7	0.19%			0.87	0.74	12	2	1.62	TCHSLT
AAB0312_4-12	12	4	12		43397.7	3.37%			2.82	1.94	12	2	4.77	TCHSLT
AAB0412_4-12	12	4	12		44432.4	2.30%			4.04	0.63	6	1	4.66	TCHSLT
AAB0512_4-12	12	4	12		48758.5	2.50%			4.83	1.97	18	3	6.79	TCHSLT
AAB0612_4-12	12	4	12		41916.9	1.44%			2.11	2.78	18	3	4.89	TCHSLT
AAB0712_4-12	12	4	12		45913.9	2.09%			8.17	7.21	12	2	15.37	TCHSLT
AAB0812_4-12	12	4	12		43421.7	1.47%			0.88	0.89	12	2	1.77	TCHSLT
AAB0912_4-12	12	4	12		47363.4	2.58%			10.52	1.53	12	2	12.05	TCHSLT
AAB0018_4-12	12	4	18		56136.1	1.30%			6.23	17.44	24	3	23.66	TCHSLT
AAB0118_4-12	12	4	18		63095.0	1.21%			11.46	19.50	24	3	30.96	TCHSLT
AAB0218_4-12	12	4	18		54769.5	0.31%			1.20	1.57	16	2	2.77	TCHSLT
AAB0318_4-12	12	4	18		65102.0	2.13%			9.80	9.48	24	3	19.28	TCHSLT
AAB0418_4-12	12	4	18		65536.4	1.73%			13.69	45.60	32	4	59.29	TCHSLT
AAB0518_4-12	12	4	18		70077.8	2.64%			11.36	12.05	16	2	23.41	TCHSLT
AAB0618_4-12	12	4	18		61623.9	1.33%			2.65	5.52	40	5	8.17	TCHSLT
AAB0718_4-12	12	4	18		69963.6	1.78%			25.58	38.37	24	3	63.95	TCHSLT
AAB0818_4-12	12	4	18		64786.0	0.22%			3.38	4.36	32	4	7.74	TCHSLT
AAB0918_4-12	12	4	18		66316.5	1.69%			13.97	37.01	32	4	50.98	TCHSLT
AAB006_4-25	25	4	6		39120.5	0.44%			2.34	1.25	10	2	3.59	TCHSLT
AAB016_4-25	25	4	6		47956.1	0.68%			2.96	1.96	15	3	4.93	TCHSLT
AAB026_4-25	25	4	6		45852.6	1.22%			5.55	1.32	5	1	6.87	TCHSLT
AAB036_4-25	25	4	6		45622.8	1.02%			3.15	2.60	15	3	5.75	TCHSLT
AAB046_4-25	25	4	6		46411.4	1.26%			6.05	0.68	5	1	6.74	TCHSLT
AAB056_4-25	25	4	6		50499.8	1.65%			5.05	1.83	10	2	6.88	TCHSLT
AAB066_4-25	25	4	6		39811.5	1.17%			0.82	0.79	15	3	1.62	TCHSLT
AAB076_4-25	25	4	6		45744.4	1.16%			6.58	2.93	10	2	9.51	TCHSLT
AAB086_4-25	25	4	6		42384.0	1.76%			2.08	1.26	10	2	3.34	TCHSLT
AAB096_4-25	25	4	6		47851.0	1.02%			1.83	0.71	5	1	2.53	TCHSLT
AAB0012_4-25	25	4	12		77647.8	1.54%			17.06	16.28	30	5	33.33	TCHSLT
AAB0112_4-25	25	4	12		86729.6	1.67%			23.00	36.87	18	3	59.87	TCHSLT
AAB0212_4-25	25	4	12		83762.0	2.63%			33.32	74.80	18	3	108.12	TCHSLT
AAB0312_4-25	25	4	12		86032.5	1.40%			14.98	5.57	6	1	20.55	TCHSLT
AAB0412_4-25	25	4	12		86990.8	1.46%			16.67	53.56	30	5	70.23	TCHSLT
AAB0512_4-25	25	4	12		89808.1	0.87%			15.06	32.28	18	3	47.35	TCHSLT
AAB0612_4-25	25	4	12		76415.5	1.35%			8.66	31.20	18	3	39.86	TCHSLT
AAB0712_4-25	25	4	12		86674.1	1.52%			15.97	30.91	18	3	46.87	TCHSLT
AAB0812_4-25	25	4	12		81046.7	1.02%			15.67	24.81	18	3	40.48	TCHSLT
AAB0912_4-25	25	4	12		86591.4	0.74%			9.41	2.52	18	3	11.93	TCHSLT
AAB0018_4-25	25	4	18		111564.6	0.94%			32.79	46.21	24	3	79.00	TCHSLT
AAB0118_4-25	25	4	18		125264.0	1.60%			40.09	198.17	48	6	238.26	TCHSLT
AAB0218_4-25	25	4	18		121485.3	1.88%			56.27	148.20	24	3	204.47	TCHSLT
AAB0318_4-25	25	4	18		124873.4	1.17%			30.76	69.65	32	4	100.40	TCHSLT
AAB0418_4-25	25	4	18		127226.0	1.18%			24.49	60.03	24	3	84.53	TCHSLT
AAB0518_4-25	25	4	18		129763.9	1.12%			26.73	46.83	24	3	73.56	TCHSLT
AAB0618_4-25	25	4	18		112673.1	0.92%			16.14	61.42	32	4	77.56	TCHSLT
AAB0718_4-25	25	4	18		125661.3	1.44%			33.25	80.11	32	4	113.37	TCHSLT
AAB0818_4-25	25	4	18		114954.7	0.92%			31.84	121.32	40	5	153.17	TCHSLT
AAB0918_4-25	25	4	18		127073.7	0.95%			20.81	49.85	32	4	70.67	TCHSLT
AAB006_4-50	50	4	6		83961.7	0.54%			2.76	12.36	20	4	15.13	TCHSLT
AAB016_4-50	50	4	6		88206.5	1.20%			4.88	32.08	15	3	36.96	TCHSLT
AAB026_4-50	50	4	6		89691.4	0.83%			13.37	27.34	15	3	40.71	TCHSLT
AAB036_4-50	50	4	6		90599.5	0.78%			14.97	4.55	10	2	19.52	TCHSLT
AAB046_4-50	50	4	6		98664.4	1.27%			14.63	28.51	15	3	43.14	TCHSLT
AAB056_4-50	50	4	6		92824.1	0.86%			13.42	3.36	10	2	16.77	TCHSLT
AAB066_4-50	50	4	6		81611.2	0.30%			3.23	1.92	10	2	5.15	TCHSLT
AAB076_4-50	50	4	6		86267.9	0.84%			6.89	12.16	10	2	19.05	TCHSLT
AAB086_4-50	50	4	6		86512.7	0.83%			11.39	1.57	5	1	12.96	TCHSLT
AAB096_4-50	50	4	6		97179.7	0.92%			13.28	8.63	15	3	21.91	TCHSLT
AAB0012_4-50	50	4	12		163832.6	0.81%			35.02	107.37	30	5	142.38	TCHSLT
AAB0112_4-50	50	4	12		159984.2	0.50%			23.82	52.94	24	4	76.77	TCHSLT
AAB0212_4-50	50	4	12		162252.4	0.84%			36.71	98.93	30	5	135.64	TCHSLT
AAB0312_4-50	50	4	12		170618.4	1.24%			33.28	88.04	24	4	121.32	TCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0412_4-50	50	4	12		176279.9	1.10%			36.55	64.49	18	3	101.04	TCHSLT
AAB0512_4-50	50	4	12		169517.6	1.08%			31.84	82.49	30	5	114.33	TCHSLT
AAB0612_4-50	50	4	12		152452.4	0.51%			24.05	55.43	24	4	79.47	TCHSLT
AAB0712_4-50	50	4	12		166377.0	0.97%			40.56	68.28	18	3	108.83	TCHSLT
AAB0812_4-50	50	4	12		160591.8	0.70%			32.40	67.23	24	4	99.63	TCHSLT
AAB0912_4-50	50	4	12		174903.3	0.57%			25.64	43.52	24	4	69.16	TCHSLT
AAB0018_4-50	50	4	18		232219.9	0.56%			59.67	164.28	40	5	223.94	TCHSLT
AAB0118_4-50	50	4	18		236018.8	0.71%			53.61	193.91	40	5	247.52	TCHSLT
AAB0218_4-50	50	4	18		243946.4	1.04%			65.30	218.27	32	4	283.58	TCHSLT
AAB0318_4-50	50	4	18		247069.5	0.63%			52.92	161.20	32	4	214.12	TCHSLT
AAB0418_4-50	50	4	18		257958.2	0.71%			58.13	133.88	24	3	192.01	TCHSLT
AAB0518_4-50	50	4	18		248792.4	0.72%			45.19	215.99	48	6	261.18	TCHSLT
AAB0618_4-50	50	4	18		226132.3	0.36%			27.89	69.58	32	4	97.47	TCHSLT
AAB0718_4-50	50	4	18		245896.6	0.86%			63.34	222.84	40	5	286.18	TCHSLT
AAB0818_4-50	50	4	18		231197.6	0.64%			55.57	149.45	40	5	205.02	TCHSLT
AAB0918_4-50	50	4	18		254587.8	0.42%			41.90	134.37	40	5	176.26	TCHSLT
AAB006_6-6	6	6	6		10341.9	0.50%			0.25	0.20	10	2	0.45	TCHSLT
AAB026_6-6	6	6	6		13458.5	0.31%			0.22	0.09	5	1	0.31	TCHSLT
AAB036_6-6	6	6	6		15365.4	3.22%			0.19	0.24	20	4	0.43	TCHSLT
AAB046_6-6	6	6	6		15138.2	2.51%			0.12	0.20	10	2	0.32	TCHSLT
AAB056_6-6	6	6	6		18138.6	0.31%			0.12	0.10	5	1	0.22	TCHSLT
AAB066_6-6	6	6	6		12580.6	1.63%			0.27	0.54	15	3	0.81	TCHSLT
AAB076_6-6	6	6	6		16759.8	0.82%			0.32	0.34	10	2	0.66	TCHSLT
AAB086_6-6	6	6	6		16673.0	2.12%			0.28	0.30	10	2	0.58	TCHSLT
AAB096_6-6	6	6	6		18291.3	1.92%			0.47	0.41	5	1	0.88	TCHSLT
AAB0012_6-6	6	6	12		21499.9	1.29%			0.72	1.11	12	2	1.84	TCHSLT
AAB0212_6-6	6	6	12		26269.1	0.63%			0.68	0.25	6	1	0.92	TCHSLT
AAB0312_6-6	6	6	12		29381.6	1.24%			0.91	0.63	12	2	1.53	TCHSLT
AAB0412_6-6	6	6	12		29313.6	0.42%			0.70	0.60	12	2	1.31	TCHSLT
AAB0512_6-6	6	6	12		31973.0	1.22%			0.60	0.68	18	3	1.28	TCHSLT
AAB0612_6-6	6	6	12		25841.6	1.01%			1.89	1.16	18	3	3.05	TCHSLT
AAB0712_6-6	6	6	12		31259.4	1.99%			0.85	1.00	18	3	1.85	TCHSLT
AAB0812_6-6	6	6	12		30549.7	2.40%			1.18	0.99	12	2	2.17	TCHSLT
AAB0912_6-6	6	6	12		34363.2	1.44%			0.69	0.36	6	1	1.05	TCHSLT
AAB0018_6-6	6	6	18		31388.9	1.18%			1.88	1.90	16	2	3.78	TCHSLT
AAB0218_6-6	6	6	18		35164.5	0.10%			1.46	0.83	16	2	2.29	TCHSLT
AAB0318_6-6	6	6	18		41154.2	0.22%			1.28	1.31	24	3	2.59	TCHSLT
AAB0418_6-6	6	6	18		43111.4	0.60%			4.14	4.09	16	2	8.23	TCHSLT
AAB0518_6-6	6	6	18		48772.5	1.72%			2.50	1.45	16	2	3.94	TCHSLT
AAB0618_6-6	6	6	18		36320.8	0.92%			2.13	1.71	24	3	3.83	TCHSLT
AAB0718_6-6	6	6	18		45953.3	1.65%			1.76	1.26	16	2	3.02	TCHSLT
AAB0818_6-6	6	6	18		47578.4	1.39%			3.13	2.31	24	3	5.44	TCHSLT
AAB0918_6-6	6	6	18		51496.6	0.77%			12.02	7.10	24	3	19.12	TCHSLT
AAB006_6-12	12	6	6		21595.8	1.69%			0.68	0.54	10	2	1.22	TCHSLT
AAB016_6-12	12	6	6		22098.9	0.04%			0.57	0.24	5	1	0.82	TCHSLT
AAB026_6-12	12	6	6		21227.1	0.79%			2.38	0.63	5	1	3.01	TCHSLT
AAB036_6-12	12	6	6		21854.1	0.97%			0.73	0.66	10	2	1.39	TCHSLT
AAB046_6-12	12	6	6		20077.5	1.99%			0.35	0.34	10	2	0.69	TCHSLT
AAB056_6-12	12	6	6		21674.5	1.59%			0.39	0.57	10	2	0.96	TCHSLT
AAB066_6-12	12	6	6		18910.7	0.27%			0.34	0.21	10	2	0.56	TCHSLT
AAB076_6-12	12	6	6		25956.0	2.66%			0.90	0.40	5	1	1.30	TCHSLT
AAB086_6-12	12	6	6		22483.6	1.82%			2.24	0.35	5	1	2.59	TCHSLT
AAB096_6-12	12	6	6		25623.1	1.21%			0.81	0.40	10	2	1.20	TCHSLT
AAB0012_6-12	12	6	12		39571.0	1.37%			2.64	5.73	24	4	8.37	TCHSLT
AAB0112_6-12	12	6	12		42074.5	0.86%			2.83	1.42	12	2	4.25	TCHSLT
AAB0212_6-12	12	6	12		41266.4	3.27%			10.97	16.99	12	2	27.96	TCHSLT
AAB0312_6-12	12	6	12		43261.2	1.11%			7.65	4.48	12	2	12.14	TCHSLT
AAB0412_6-12	12	6	12		38766.6	2.68%			8.86	2.86	6	1	11.72	TCHSLT
AAB0512_6-12	12	6	12		44820.7	2.19%			3.98	7.90	18	3	11.88	TCHSLT
AAB0612_6-12	12	6	12		36851.0	2.53%			1.10	1.19	12	2	2.30	TCHSLT
AAB0712_6-12	12	6	12		51410.9	2.12%			11.16	12.88	18	3	24.05	TCHSLT
AAB0812_6-12	12	6	12		43618.9	4.19%			8.67	21.63	18	3	30.30	TCHSLT
AAB0912_6-12	12	6	12		46343.9	1.77%			7.35	20.22	18	3	27.56	TCHSLT
AAB0018_6-12	12	6	18		59279.4	1.48%			7.12	14.84	32	4	21.95	TCHSLT
AAB0118_6-12	12	6	18		64456.3	0.86%			3.89	4.65	24	3	8.54	TCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0218_6-12	12	6	18		59206.6	1.67%			24.35	24.64	24	3	48.99	TCHSLT
AAB0318_6-12	12	6	18		61090.2	1.92%			13.36	12.13	24	3	25.49	TCHSLT
AAB0418_6-12	12	6	18		54840.5	1.14%			4.98	8.55	16	2	13.52	TCHSLT
AAB0518_6-12	12	6	18		66427.1	1.66%			13.09	13.35	24	3	26.44	TCHSLT
AAB0618_6-12	12	6	18		56857.5	1.57%			7.06	9.43	24	3	16.48	TCHSLT
AAB0718_6-12	12	6	18		73734.1	2.15%			20.03	45.17	24	3	65.20	TCHSLT
AAB0818_6-12	12	6	18		62692.6	3.06%			16.36	36.21	24	3	52.57	TCHSLT
AAB0918_6-12	12	6	18		68415.2	1.71%			11.93	10.06	24	3	21.99	TCHSLT
AAB006_6-25	25	6	6		42063.2	1.66%			12.14	4.59	10	2	16.73	TCHSLT
AAB016_6-25	25	6	6		41910.8	1.85%			5.76	21.35	25	5	27.11	TCHSLT
AAB026_6-25	25	6	6		43804.8	1.19%			8.78	1.31	5	1	10.09	TCHSLT
AAB036_6-25	25	6	6		42657.8	0.88%			4.70	0.76	5	1	5.46	TCHSLT
AAB046_6-25	25	6	6		45825.3	1.96%			15.91	17.05	15	3	32.96	TCHSLT
AAB056_6-25	25	6	6		42528.3	1.82%			6.13	3.00	10	2	9.13	TCHSLT
AAB066_6-25	25	6	6		40837.0	0.87%			3.34	1.52	10	2	4.86	TCHSLT
AAB076_6-25	25	6	6		44652.7	1.43%			2.52	0.73	5	1	3.25	TCHSLT
AAB086_6-25	25	6	6		43543.6	1.82%			8.66	15.99	10	2	24.65	TCHSLT
AAB096_6-25	25	6	6		44378.9	1.45%			4.71	3.06	15	3	7.77	TCHSLT
AAB0012_6-25	25	6	12		79759.2	1.63%			24.05	67.19	30	5	91.24	TCHSLT
AAB0112_6-25	25	6	12		83404.2	2.58%			26.46	60.22	18	3	86.68	TCHSLT
AAB0212_6-25	25	6	12		83674.2	2.67%			31.61	36.27	12	2	67.87	TCHSLT
AAB0312_6-25	25	6	12		81325.0	2.32%			38.29	47.20	18	3	85.49	TCHSLT
AAB0412_6-25	25	6	12		85039.5	2.65%			37.12	58.78	18	3	95.90	TCHSLT
AAB0512_6-25	25	6	12		79504.7	1.40%			18.17	44.13	24	4	62.30	TCHSLT
AAB0612_6-25	25	6	12		77325.9	1.56%			18.65	21.98	12	2	40.63	TCHSLT
AAB0712_6-25	25	6	12		80129.4	1.25%			13.53	18.51	18	3	32.05	TCHSLT
AAB0812_6-25	25	6	12		79353.4	2.00%			20.47	47.77	18	3	68.23	TCHSLT
AAB0912_6-25	25	6	12		86063.2	1.94%			21.00	57.79	30	5	78.79	TCHSLT
AAB0018_6-25	25	6	18		116022.3	1.70%			59.43	90.87	24	3	150.30	TCHSLT
AAB0118_6-25	25	6	18		121646.0	1.87%			41.20	82.10	24	3	123.30	TCHSLT
AAB0218_6-25	25	6	18		124664.2	1.94%			54.20	165.10	40	5	219.30	TCHSLT
AAB0318_6-25	25	6	18		120660.0	1.66%			69.21	265.17	40	5	334.38	TCHSLT
AAB0418_6-25	25	6	18		125838.8	2.22%			68.88	177.10	24	3	245.98	TCHSLT
AAB0518_6-25	25	6	18		120927.4	1.29%			34.52	91.82	40	5	126.34	TCHSLT
AAB0618_6-25	25	6	18		112959.1	1.60%			55.51	176.70	48	6	232.22	TCHSLT
AAB0718_6-25	25	6	18		118157.5	1.31%			29.99	36.01	24	3	66.00	TCHSLT
AAB0818_6-25	25	6	18		113753.3	1.78%			39.26	113.35	32	4	152.61	TCHSLT
AAB0918_6-25	25	6	18		126767.9	1.71%			48.73	154.53	40	5	203.27	TCHSLT
AAB006_6-50	50	6	6		77240.1	1.00%			16.71	7.97	10	2	24.68	TCHSLT
AAB016_6-50	50	6	6		81106.2	1.58%			22.83	25.74	10	2	48.57	TCHSLT
AAB026_6-50	50	6	6		83504.8	1.12%			21.01	29.45	10	2	50.46	TCHSLT
AAB036_6-50	50	6	6		80844.6	0.82%			17.72	5.87	10	2	23.59	TCHSLT
AAB046_6-50	50	6	6		84437.9	1.15%			25.67	21.03	5	1	46.71	TCHSLT
AAB056_6-50	50	6	6		84731.2	0.79%			21.51	34.14	10	2	55.65	TCHSLT
AAB066_6-50	50	6	6		81605.2	1.36%			33.61	46.58	10	2	80.19	TCHSLT
AAB076_6-50	50	6	6		83764.0	0.77%			21.29	23.43	20	4	44.72	TCHSLT
AAB086_6-50	50	6	6		80243.3	1.11%			12.07	3.54	10	2	15.61	TCHSLT
AAB096_6-50	50	6	6		80882.3	0.96%			30.47	7.32	5	1	37.79	TCHSLT
AAB0012_6-50	50	6	12		149204.1	0.98%			40.32	95.73	24	4	136.05	TCHSLT
AAB0112_6-50	50	6	12		151959.3	0.97%			27.54	56.77	18	3	84.31	TCHSLT
AAB0212_6-50	50	6	12		156987.9	1.01%			41.32	158.44	30	5	199.76	TCHSLT
AAB0312_6-50	50	6	12		155569.5	1.23%			40.97	101.41	18	3	142.38	TCHSLT
AAB0412_6-50	50	6	12		163399.8	1.38%			42.46	124.65	24	4	167.11	TCHSLT
AAB0512_6-50	50	6	12		161764.0	1.63%			45.69	78.97	18	3	124.66	TCHSLT
AAB0612_6-50	50	6	12		151909.2	1.23%			41.86	281.96	42	7	323.82	TCHSLT
AAB0712_6-50	50	6	12		159118.5	0.82%			31.30	93.08	30	5	124.38	TCHSLT
AAB0812_6-50	50	6	12		146611.3	0.97%			28.37	65.30	18	3	93.67	TCHSLT
AAB0912_6-50	50	6	12		154629.5	0.93%			37.15	135.19	36	6	172.34	TCHSLT
AAB0018_6-50	50	6	18		219554.2	0.88%			58.88	259.39	48	6	318.27	TCHSLT
AAB0118_6-50	50	6	18		222815.1	0.97%			58.26	160.30	32	4	218.56	TCHSLT
AAB0218_6-50	50	6	18		228044.7	0.78%			66.60	266.22	40	5	332.82	TCHSLT
AAB0318_6-50	50	6	18		229577.6	0.95%			72.81	273.98	40	5	346.79	TCHSLT
AAB0418_6-50	50	6	18		241301.9	1.07%			72.09	207.60	24	3	279.69	TCHSLT
AAB0518_6-50	50	6	18		231131.8	1.25%			72.47	410.16	56	7	482.63	TCHSLT
AAB0618_6-50	50	6	18		225345.2	1.43%			74.40	424.37	48	6	498.77	TCHSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_6-50	50	6	18		232543.9	0.62%			65.41	314.61	56	7	380.02	TCHSLT
AAB0818_6-50	50	6	18		219068.6	0.97%			70.60	199.15	32	4	269.75	TCHSLT
AAB0918_6-50	50	6	18		227480.0	0.83%			71.56	367.50	64	8	439.05	TCHSLT
ABA006_2-6	6	2	6		8175.8	0.02%			0.17	0.23	10	2	0.40	TCLSHT
ABA016_2-6	6	2	6		5995.8	0.35%			0.06	0.12	10	2	0.18	TCLSHT
ABA026_2-6	6	2	6		7073.9	0.00%			0.11	0.07	5	1	0.18	TCLSHT
ABA036_2-6	6	2	6		7799.3	0.00%			0.07	0.06	5	1	0.13	TCLSHT
ABA046_2-6	6	2	6		7927.2	0.12%			0.17	0.24	10	2	0.40	TCLSHT
ABA056_2-6	6	2	6		9392.7	0.16%			0.08	0.05	5	1	0.13	TCLSHT
ABA066_2-6	6	2	6		8054.2	0.00%			0.13	0.10	10	2	0.22	TCLSHT
ABA076_2-6	6	2	6		9129.3	0.00%			0.10	0.09	5	1	0.18	TCLSHT
ABA086_2-6	6	2	6		8192.9	0.00%			0.08	0.15	10	2	0.24	TCLSHT
ABA096_2-6	6	2	6		7120.6	0.23%			0.06	0.03	5	1	0.09	TCLSHT
ABA0012_2-6	6	2	12		15609.4	0.07%			0.43	0.31	6	1	0.74	TCLSHT
ABA0112_2-6	6	2	12		13419.7	0.00%			0.23	0.32	12	2	0.54	TCLSHT
ABA0212_2-6	6	2	12		14773.4	0.33%			0.24	0.23	6	1	0.47	TCLSHT
ABA0412_2-6	6	2	12		13857.2	0.18%			0.47	0.86	12	2	1.33	TCLSHT
ABA0512_2-6	6	2	12		17403.2	0.02%			0.20	0.28	12	2	0.48	TCLSHT
ABA0612_2-6	6	2	12		14997.2	0.35%			0.17	0.36	12	2	0.54	TCLSHT
ABA0712_2-6	6	2	12		16647.3	0.18%			0.27	0.34	12	2	0.60	TCLSHT
ABA0812_2-6	6	2	12		14158.1	0.00%			0.28	0.30	12	2	0.58	TCLSHT
ABA0912_2-6	6	2	12		16148.2	0.15%			0.23	0.44	18	3	0.67	TCLSHT
ABA0018_2-6	6	2	18		21811.3	0.28%			1.55	3.41	24	3	4.96	TCLSHT
ABA0118_2-6	6	2	18		20129.5	0.00%			0.38	0.33	16	2	0.71	TCLSHT
ABA0218_2-6	6	2	18		22498.7	0.13%			0.57	1.06	16	2	1.63	TCLSHT
ABA0418_2-6	6	2	18		20236.6	0.30%			0.99	1.85	24	3	2.84	TCLSHT
ABA0518_2-6	6	2	18		25054.5	0.00%			0.51	0.57	16	2	1.08	TCLSHT
ABA0618_2-6	6	2	18		22805.2	0.00%			0.56	1.55	32	4	2.11	TCLSHT
ABA0718_2-6	6	2	18		24375.4	0.00%			0.78	1.13	16	2	1.91	TCLSHT
ABA0818_2-6	6	2	18		20874.4	0.00%			0.55	2.04	32	4	2.59	TCLSHT
ABA0918_2-6	6	2	18		22479.1	0.02%			0.40	0.52	16	2	0.92	TCLSHT
ABA006_2-12	12	2	6		12675.6	0.00%			0.10	0.13	10	2	0.23	TCLSHT
ABA016_2-12	12	2	6		14162.4	0.00%			0.16	0.11	5	1	0.27	TCLSHT
ABA026_2-12	12	2	6		14163.9	0.00%			0.15	0.07	5	1	0.23	TCLSHT
ABA036_2-12	12	2	6		16340.9	0.00%			0.18	0.22	15	3	0.40	TCLSHT
ABA046_2-12	12	2	6		14225.0	0.17%			0.20	0.24	15	3	0.44	TCLSHT
ABA056_2-12	12	2	6		16557.5	0.11%			0.12	0.15	10	2	0.28	TCLSHT
ABA066_2-12	12	2	6		13792.6	0.00%			0.21	0.21	10	2	0.42	TCLSHT
ABA076_2-12	12	2	6		15403.4	0.00%			0.09	0.06	5	1	0.15	TCLSHT
ABA086_2-12	12	2	6		12858.6	0.00%			0.19	0.30	15	3	0.49	TCLSHT
ABA096_2-12	12	2	6		15954.8	0.14%			0.29	0.44	10	2	0.73	TCLSHT
ABA0012_2-12	12	2	12		26206.0	0.02%			0.27	0.69	18	3	0.97	TCLSHT
ABA0112_2-12	12	2	12		27441.3	0.00%			0.35	0.78	24	4	1.13	TCLSHT
ABA0212_2-12	12	2	12		27190.1	0.00%			0.56	0.75	12	2	1.31	TCLSHT
ABA0312_2-12	12	2	12		31751.6	0.05%			0.34	0.60	18	3	0.94	TCLSHT
ABA0412_2-12	12	2	12		28311.1	0.00%			0.41	0.68	18	3	1.10	TCLSHT
ABA0512_2-12	12	2	12		32081.3	0.00%			0.38	0.28	6	1	0.66	TCLSHT
ABA0612_2-12	12	2	12		27252.9	0.06%			0.30	0.34	12	2	0.64	TCLSHT
ABA0712_2-12	12	2	12		30393.7	0.02%			0.46	0.70	12	2	1.17	TCLSHT
ABA0812_2-12	12	2	12		26711.1	0.14%			0.56	0.64	12	2	1.20	TCLSHT
ABA0912_2-12	12	2	12		31083.5	0.09%			1.13	2.15	24	4	3.28	TCLSHT
ABA0118_2-12	12	2	18		40467.2	0.05%			1.01	1.57	16	2	2.58	TCLSHT
ABA0218_2-12	12	2	18		41754.3	0.15%			2.29	4.40	24	3	6.69	TCLSHT
ABA0318_2-12	12	2	18		46256.9	0.00%			1.25	1.52	16	2	2.78	TCLSHT
ABA0418_2-12	12	2	18		44169.6	0.00%			1.15	0.97	16	2	2.12	TCLSHT
ABA0518_2-12	12	2	18		47321.1	0.00%			1.22	1.54	16	2	2.76	TCLSHT
ABA0618_2-12	12	2	18		40625.0	0.00%			0.87	0.88	16	2	1.75	TCLSHT
ABA0718_2-12	12	2	18		45452.0	0.01%			0.90	0.89	16	2	1.80	TCLSHT
ABA0818_2-12	12	2	18		41332.2	0.04%			1.22	1.63	16	2	2.85	TCLSHT
ABA0918_2-12	12	2	18		47384.2	0.30%			6.46	10.09	16	2	16.55	TCLSHT
ABA006_2-25	25	2	6		29204.1	0.04%			0.21	0.14	5	1	0.34	TCLSHT
ABA016_2-25	25	2	6		29917.3	0.09%			0.32	0.46	10	2	0.78	TCLSHT
ABA026_2-25	25	2	6		28591.9	0.05%			0.63	0.91	15	3	1.54	TCLSHT
ABA036_2-25	25	2	6		30198.2	0.09%			0.35	0.55	10	2	0.89	TCLSHT
ABA046_2-25	25	2	6		31448.9	0.12%			0.60	0.64	10	2	1.24	TCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA056_2-25	25	2	6		31530.0	0.06%			1.23	0.89	10	2	2.12	TCLSHT
ABA066_2-25	25	2	6		27884.3	0.00%			0.17	0.19	10	2	0.36	TCLSHT
ABA076_2-25	25	2	6		31325.5	0.03%			0.39	0.40	10	2	0.79	TCLSHT
ABA086_2-25	25	2	6		32154.1	0.01%			0.66	0.67	10	2	1.33	TCLSHT
ABA096_2-25	25	2	6		33219.8	0.00%			0.39	0.23	5	1	0.62	TCLSHT
ABA0012_2-25	25	2	12		58215.0	0.01%			0.64	1.22	18	3	1.86	TCLSHT
ABA0112_2-25	25	2	12		60937.3	0.02%			0.92	4.10	18	3	5.02	TCLSHT
ABA0212_2-25	25	2	12		56280.4	0.09%			1.23	1.84	18	3	3.07	TCLSHT
ABA0312_2-25	25	2	12		59213.8	0.04%			1.21	2.70	18	3	3.91	TCLSHT
ABA0412_2-25	25	2	12		59686.8	0.02%			1.04	1.90	18	3	2.94	TCLSHT
ABA0512_2-25	25	2	12		65070.6	0.15%			1.55	3.85	18	3	5.40	TCLSHT
ABA0612_2-25	25	2	12		57223.0	0.00%			0.38	0.51	12	2	0.89	TCLSHT
ABA0712_2-25	25	2	12		62797.2	0.07%			1.04	1.40	12	2	2.44	TCLSHT
ABA0812_2-25	25	2	12		62917.7	0.08%			3.90	3.51	12	2	7.41	TCLSHT
ABA0912_2-25	25	2	12		64030.7	0.08%			1.17	4.79	12	2	5.96	TCLSHT
ABA0018_2-25	25	2	18		87020.2	0.00%			1.16	1.10	16	2	2.27	TCLSHT
ABA0118_2-25	25	2	18		88593.6	0.01%			2.92	2.66	16	2	5.58	TCLSHT
ABA0218_2-25	25	2	18		83302.8	0.09%			3.83	5.42	24	3	9.25	TCLSHT
ABA0318_2-25	25	2	18		91408.2	0.08%			5.89	10.43	24	3	16.31	TCLSHT
ABA0418_2-25	25	2	18		90592.4	0.00%			3.19	2.59	16	2	5.78	TCLSHT
ABA0518_2-25	25	2	18		95159.9	0.15%			17.97	15.01	24	3	32.98	TCLSHT
ABA0618_2-25	25	2	18		83544.6	0.00%			1.06	1.18	16	2	2.24	TCLSHT
ABA0718_2-25	25	2	18		92172.9	0.03%			5.78	4.17	16	2	9.94	TCLSHT
ABA0818_2-25	25	2	18		91536.7	0.08%			5.50	16.23	32	4	21.74	TCLSHT
ABA0918_2-25	25	2	18		93169.4	0.03%			4.65	4.78	24	3	9.43	TCLSHT
ABA006_2-50	50	2	6		58818.5	0.05%			0.48	0.63	10	2	1.11	TCLSHT
ABA016_2-50	50	2	6		60313.6	0.02%			0.53	0.74	15	3	1.27	TCLSHT
ABA026_2-50	50	2	6		56192.0	0.09%			1.12	1.00	10	2	2.12	TCLSHT
ABA036_2-50	50	2	6		59310.7	0.03%			0.50	0.89	10	2	1.39	TCLSHT
ABA046_2-50	50	2	6		60928.8	0.08%			1.04	0.95	10	2	2.00	TCLSHT
ABA056_2-50	50	2	6		59401.5	0.09%			0.55	0.70	10	2	1.25	TCLSHT
ABA066_2-50	50	2	6		56051.2	0.08%			0.91	0.68	10	2	1.58	TCLSHT
ABA076_2-50	50	2	6		58979.1	0.04%			0.79	2.37	15	3	3.16	TCLSHT
ABA086_2-50	50	2	6		60052.9	0.01%			1.01	0.70	10	2	1.71	TCLSHT
ABA096_2-50	50	2	6		60675.3	0.02%			0.86	1.26	15	3	2.13	TCLSHT
ABA0012_2-50	50	2	12		117325.0	0.01%			0.80	1.96	18	3	2.76	TCLSHT
ABA0112_2-50	50	2	12		119914.0	0.03%			1.34	3.50	30	5	4.84	TCLSHT
ABA0212_2-50	50	2	12		114108.8	0.05%			4.44	4.16	18	3	8.59	TCLSHT
ABA0312_2-50	50	2	12		120041.8	0.09%			2.96	3.32	12	2	6.28	TCLSHT
ABA0412_2-50	50	2	12		122270.5	0.05%			4.21	6.10	18	3	10.31	TCLSHT
ABA0512_2-50	50	2	12		119398.3	0.03%			1.90	3.68	12	2	5.58	TCLSHT
ABA0612_2-50	50	2	12		113665.0	0.02%			0.68	0.86	12	2	1.54	TCLSHT
ABA0712_2-50	50	2	12		114753.6	0.03%			3.59	11.68	24	4	15.27	TCLSHT
ABA0812_2-50	50	2	12		115457.1	0.04%			3.00	4.88	24	4	7.88	TCLSHT
ABA0912_2-50	50	2	12		122445.7	0.02%			1.73	1.80	12	2	3.52	TCLSHT
ABA0018_2-50	50	2	18		175791.4	0.01%			4.01	2.26	16	2	6.27	TCLSHT
ABA0118_2-50	50	2	18		178765.5	0.00%			2.46	3.77	24	3	6.23	TCLSHT
ABA0218_2-50	50	2	18		169782.4	0.03%			6.44	7.18	24	3	13.62	TCLSHT
ABA0318_2-50	50	2	18		181055.0	0.01%			3.07	5.35	24	3	8.42	TCLSHT
ABA0418_2-50	50	2	18		182032.7	0.06%			27.25	40.71	16	2	67.96	TCLSHT
ABA0518_2-50	50	2	18		181105.7	0.02%			11.77	4.48	16	2	16.26	TCLSHT
ABA0618_2-50	50	2	18		171807.6	0.03%			2.59	2.50	16	2	5.09	TCLSHT
ABA0718_2-50	50	2	18		172463.7	0.00%			6.60	7.92	24	3	14.51	TCLSHT
ABA0818_2-50	50	2	18		173633.9	0.03%			6.96	8.87	24	3	15.83	TCLSHT
ABA0918_2-50	50	2	18		183028.1	0.04%			6.96	6.08	16	2	13.04	TCLSHT
ABA006_4-6	6	4	6		6353.8	0.00%			0.13	0.21	10	2	0.34	TCLSHT
ABA016_4-6	6	4	6		7264.3	0.00%			0.25	0.42	10	2	0.67	TCLSHT
ABA026_4-6	6	4	6		7334.0	0.00%			0.15	0.11	5	1	0.26	TCLSHT
ABA036_4-6	6	4	6		6701.1	0.01%			0.11	0.07	5	1	0.19	TCLSHT
ABA046_4-6	6	4	6		5572.9	0.35%			0.10	0.07	5	1	0.17	TCLSHT
ABA056_4-6	6	4	6		7922.3	0.18%			0.41	0.53	10	2	0.94	TCLSHT
ABA066_4-6	6	4	6		6385.4	0.29%			0.21	0.08	5	1	0.28	TCLSHT
ABA076_4-6	6	4	6		7671.5	0.00%			0.10	0.10	10	2	0.20	TCLSHT
ABA086_4-6	6	4	6		5884.5	0.44%			0.13	0.14	10	2	0.27	TCLSHT
ABA096_4-6	6	4	6		8581.9	0.35%			0.16	0.12	5	1	0.28	TCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0012_4-6	6	4	12		11705.7	0.00%			0.16	0.24	12	2	0.40	TCLSHT
ABA0112_4-6	6	4	12		15287.8	0.13%			0.88	1.80	18	3	2.68	TCLSHT
ABA0212_4-6	6	4	12		14582.8	0.00%			0.36	0.42	12	2	0.78	TCLSHT
ABA0312_4-6	6	4	12		14422.5	0.00%			0.28	0.36	12	2	0.64	TCLSHT
ABA0412_4-6	6	4	12		12864.5	0.00%			0.74	0.35	6	1	1.09	TCLSHT
ABA0512_4-6	6	4	12		15861.5	0.29%			1.01	0.63	6	1	1.65	TCLSHT
ABA0612_4-6	6	4	12		12747.8	0.02%			0.29	0.12	6	1	0.41	TCLSHT
ABA0712_4-6	6	4	12		14690.0	0.03%			0.30	0.33	12	2	0.63	TCLSHT
ABA0812_4-6	6	4	12		12366.3	0.04%			0.44	0.23	6	1	0.67	TCLSHT
ABA0912_4-6	6	4	12		14845.8	0.00%			0.26	0.24	12	2	0.50	TCLSHT
ABA0018_4-6	6	4	18		18616.5	0.00%			0.84	1.10	16	2	1.93	TCLSHT
ABA0118_4-6	6	4	18		21748.6	0.07%			1.52	2.13	16	2	3.66	TCLSHT
ABA0218_4-6	6	4	18		21432.5	0.00%			0.80	1.32	16	2	2.12	TCLSHT
ABA0318_4-6	6	4	18		22047.9	0.00%			0.79	1.03	16	2	1.83	TCLSHT
ABA0418_4-6	6	4	18		19977.0	0.22%			0.86	1.55	16	2	2.41	TCLSHT
ABA0518_4-6	6	4	18		23482.7	0.10%			3.16	2.66	16	2	5.82	TCLSHT
ABA0618_4-6	6	4	18		19782.0	0.08%			1.21	1.46	16	2	2.67	TCLSHT
ABA0718_4-6	6	4	18		22367.2	0.00%			0.73	0.35	8	1	1.08	TCLSHT
ABA0818_4-6	6	4	18		18179.3	0.02%			0.98	0.96	16	2	1.93	TCLSHT
ABA0918_4-6	6	4	18		22157.9	0.00%			0.59	0.80	16	2	1.39	TCLSHT
ABA006_4-12	12	4	6		13271.6	0.00%			0.36	0.25	5	1	0.61	TCLSHT
ABA016_4-12	12	4	6		15440.0	0.00%			0.57	0.54	10	2	1.10	TCLSHT
ABA026_4-12	12	4	6		13157.6	0.00%			0.17	0.33	10	2	0.51	TCLSHT
ABA036_4-12	12	4	6		12360.9	0.17%			0.52	0.53	10	2	1.05	TCLSHT
ABA046_4-12	12	4	6		14396.1	0.14%			0.38	0.32	10	2	0.70	TCLSHT
ABA056_4-12	12	4	6		14184.0	0.01%			0.42	0.26	5	1	0.68	TCLSHT
ABA066_4-12	12	4	6		12690.9	0.19%			0.22	0.11	5	1	0.34	TCLSHT
ABA076_4-12	12	4	6		12480.8	0.00%			0.33	0.29	10	2	0.62	TCLSHT
ABA086_4-12	12	4	6		14699.8	0.00%			0.28	0.29	10	2	0.57	TCLSHT
ABA096_4-12	12	4	6		13280.9	0.08%			0.48	0.31	5	1	0.79	TCLSHT
ABA0012_4-12	12	4	12		24760.7	0.02%			1.09	2.38	18	3	3.47	TCLSHT
ABA0112_4-12	12	4	12		28648.3	0.14%			2.16	2.12	12	2	4.28	TCLSHT
ABA0212_4-12	12	4	12		26528.6	0.01%			0.74	1.25	12	2	2.00	TCLSHT
ABA0312_4-12	12	4	12		25466.3	0.01%			0.74	1.03	12	2	1.77	TCLSHT
ABA0412_4-12	12	4	12		27376.2	0.03%			0.78	1.61	18	3	2.38	TCLSHT
ABA0512_4-12	12	4	12		27926.4	0.01%			0.86	1.91	12	2	2.78	TCLSHT
ABA0612_4-12	12	4	12		24615.2	0.00%			0.39	0.52	12	2	0.90	TCLSHT
ABA0712_4-12	12	4	12		26367.9	0.05%			1.15	2.04	18	3	3.19	TCLSHT
ABA0812_4-12	12	4	12		28142.5	0.01%			0.68	1.04	12	2	1.72	TCLSHT
ABA0912_4-12	12	4	12		28635.0	0.15%			3.97	2.49	12	2	6.47	TCLSHT
ABA0018_4-12	12	4	18		38458.0	0.25%			7.53	17.38	24	3	24.91	TCLSHT
ABA0118_4-12	12	4	18		42099.8	0.25%			8.04	9.28	16	2	17.32	TCLSHT
ABA0218_4-12	12	4	18		39462.7	0.02%			1.78	1.68	8	1	3.46	TCLSHT
ABA0318_4-12	12	4	18		39731.8	0.01%			3.09	4.25	24	3	7.34	TCLSHT
ABA0418_4-12	12	4	18		40766.3	0.00%			1.98	2.76	16	2	4.74	TCLSHT
ABA0518_4-12	12	4	18		41124.1	0.00%			1.78	1.12	8	1	2.90	TCLSHT
ABA0618_4-12	12	4	18		37160.0	0.00%			1.07	1.23	16	2	2.30	TCLSHT
ABA0718_4-12	12	4	18		41283.8	0.12%			6.49	8.80	16	2	15.29	TCLSHT
ABA0818_4-12	12	4	18		42914.5	0.02%			1.79	3.05	16	2	4.84	TCLSHT
ABA0918_4-12	12	4	18		41704.1	0.24%			7.44	7.95	16	2	15.39	TCLSHT
ABA006_4-25	25	4	6		25597.6	0.00%			0.58	0.85	10	2	1.43	TCLSHT
ABA016_4-25	25	4	6		29499.8	0.01%			0.88	1.11	15	3	1.99	TCLSHT
ABA026_4-25	25	4	6		27679.7	0.08%			1.61	4.73	15	3	6.34	TCLSHT
ABA036_4-25	25	4	6		26069.8	0.14%			0.89	1.44	10	2	2.33	TCLSHT
ABA046_4-25	25	4	6		26666.4	0.01%			0.40	0.48	10	2	0.89	TCLSHT
ABA056_4-25	25	4	6		30213.5	0.16%			0.48	0.20	5	1	0.68	TCLSHT
ABA066_4-25	25	4	6		25388.2	0.04%			0.32	0.21	5	1	0.53	TCLSHT
ABA076_4-25	25	4	6		27068.9	0.00%			2.51	0.97	10	2	3.48	TCLSHT
ABA086_4-25	25	4	6		26264.8	0.01%			0.73	0.42	10	2	1.15	TCLSHT
ABA096_4-25	25	4	6		27962.4	0.01%			0.80	1.03	10	2	1.83	TCLSHT
ABA0012_4-25	25	4	12		53806.5	0.13%			3.76	7.48	18	3	11.24	TCLSHT
ABA0112_4-25	25	4	12		56388.5	0.04%			1.60	2.04	12	2	3.64	TCLSHT
ABA0212_4-25	25	4	12		53356.9	0.10%			5.09	6.90	18	3	11.99	TCLSHT
ABA0312_4-25	25	4	12		54124.8	0.02%			4.80	2.73	12	2	7.53	TCLSHT
ABA0412_4-25	25	4	12		54967.3	0.00%			0.87	0.98	12	2	1.85	TCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0512_4-25	25	4	12		57172.0	0.08%			1.26	1.57	12	2	2.84	TCLSHT
ABA0612_4-25	25	4	12		50728.0	0.03%			0.73	1.58	12	2	2.31	TCLSHT
ABA0712_4-25	25	4	12		55627.3	0.14%			6.42	5.52	12	2	11.94	TCLSHT
ABA0812_4-25	25	4	12		54132.7	0.03%			1.55	1.97	12	2	3.53	TCLSHT
ABA0912_4-25	25	4	12		54981.4	0.13%			8.06	24.89	24	4	32.95	TCLSHT
ABA0018_4-25	25	4	18		78120.9	0.05%			7.71	6.39	8	1	14.10	TCLSHT
ABA0118_4-25	25	4	18		83925.7	0.00%			3.42	3.49	16	2	6.91	TCLSHT
ABA0218_4-25	25	4	18		80983.6	0.07%			15.16	30.98	32	4	46.14	TCLSHT
ABA0318_4-25	25	4	18		80509.6	0.05%			7.40	3.09	8	1	10.50	TCLSHT
ABA0418_4-25	25	4	18		83338.3	0.00%			1.75	1.98	16	2	3.72	TCLSHT
ABA0518_4-25	25	4	18		84442.8	0.06%			4.94	9.25	16	2	14.19	TCLSHT
ABA0618_4-25	25	4	18		77409.4	0.00%			2.27	2.40	16	2	4.66	TCLSHT
ABA0718_4-25	25	4	18		82729.5	0.12%			17.34	20.40	16	2	37.75	TCLSHT
ABA0818_4-25	25	4	18		78523.0	0.00%			3.74	2.90	16	2	6.64	TCLSHT
ABA0918_4-25	25	4	18		82454.8	0.09%			19.26	12.11	16	2	31.37	TCLSHT
ABA006_4-50	50	4	6		54643.6	0.00%			1.02	0.74	10	2	1.76	TCLSHT
ABA016_4-50	50	4	6		55461.6	0.10%			1.78	0.86	10	2	2.64	TCLSHT
ABA026_4-50	50	4	6		56063.8	0.02%			0.82	0.82	10	2	1.64	TCLSHT
ABA036_4-50	50	4	6		55263.1	0.00%			3.73	1.66	10	2	5.39	TCLSHT
ABA046_4-50	50	4	6		56937.9	0.04%			3.38	9.39	15	3	12.76	TCLSHT
ABA056_4-50	50	4	6		57386.3	0.01%			1.17	1.49	15	3	2.65	TCLSHT
ABA066_4-50	50	4	6		52883.0	0.02%			1.31	1.26	10	2	2.57	TCLSHT
ABA076_4-50	50	4	6		51741.8	0.12%			1.71	3.31	10	2	5.01	TCLSHT
ABA086_4-50	50	4	6		52929.8	0.02%			1.27	2.21	15	3	3.47	TCLSHT
ABA096_4-50	50	4	6		60176.3	0.02%			1.14	1.52	15	3	2.65	TCLSHT
ABA0012_4-50	50	4	12		110490.5	0.04%			11.67	17.80	12	2	29.47	TCLSHT
ABA0112_4-50	50	4	12		108483.0	0.02%			2.67	2.46	12	2	5.13	TCLSHT
ABA0212_4-50	50	4	12		108035.7	0.02%			3.28	3.33	12	2	6.61	TCLSHT
ABA0312_4-50	50	4	12		110197.5	0.02%			5.56	5.74	18	3	11.30	TCLSHT
ABA0412_4-50	50	4	12		109710.2	0.05%			11.11	36.97	24	4	48.08	TCLSHT
ABA0512_4-50	50	4	12		112061.4	0.04%			2.38	2.89	18	3	5.27	TCLSHT
ABA0612_4-50	50	4	12		104065.5	0.05%			1.98	3.26	24	4	5.24	TCLSHT
ABA0712_4-50	50	4	12		106680.8	0.08%			14.62	10.40	18	3	25.02	TCLSHT
ABA0812_4-50	50	4	12		106536.3	0.02%			3.69	2.09	18	3	5.79	TCLSHT
ABA0912_4-50	50	4	12		114466.5	0.08%			8.50	8.55	24	4	17.05	TCLSHT
ABA0018_4-50	50	4	18		160120.5	0.02%			8.66	10.36	16	2	19.02	TCLSHT
ABA0118_4-50	50	4	18		161831.4	0.02%			6.74	6.64	16	2	13.38	TCLSHT
ABA0218_4-50	50	4	18		162910.4	0.01%			20.03	10.66	24	3	30.69	TCLSHT
ABA0318_4-50	50	4	18		163398.3	0.06%			20.92	15.31	16	2	36.23	TCLSHT
ABA0418_4-50	50	4	18		166589.3	0.06%			35.85	77.26	40	5	113.11	TCLSHT
ABA0518_4-50	50	4	18		168108.2	0.01%			8.15	5.99	16	2	14.14	TCLSHT
ABA0618_4-50	50	4	18		156380.6	0.02%			5.48	5.55	16	2	11.03	TCLSHT
ABA0718_4-50	50	4	18		161778.4	0.06%			32.27	47.73	24	3	80.00	TCLSHT
ABA0818_4-50	50	4	18		157363.2	0.01%			4.31	3.44	16	2	7.74	TCLSHT
ABA0918_4-50	50	4	18		168562.2	0.02%			12.83	11.47	16	2	24.30	TCLSHT
ABA006_6-6	6	6	6		5670.0	0.00%			0.09	0.06	5	1	0.14	TCLSHT
ABA016_6-6	6	6	6		7319.1	0.28%			0.45	0.65	10	2	1.10	TCLSHT
ABA026_6-6	6	6	6		6982.3	0.00%			0.09	0.14	10	2	0.23	TCLSHT
ABA036_6-6	6	6	6		7413.1	0.00%			0.11	0.06	5	1	0.17	TCLSHT
ABA046_6-6	6	6	6		8175.2	0.25%			0.32	0.24	5	1	0.56	TCLSHT
ABA056_6-6	6	6	6		8047.7	0.12%			0.28	0.32	10	2	0.59	TCLSHT
ABA066_6-6	6	6	6		6733.8	0.00%			0.14	0.17	10	2	0.31	TCLSHT
ABA076_6-6	6	6	6		7774.7	0.00%			0.16	0.17	10	2	0.34	TCLSHT
ABA086_6-6	6	6	6		6714.9	0.00%			0.11	0.07	5	1	0.18	TCLSHT
ABA096_6-6	6	6	6		7568.9	0.23%			0.44	0.37	10	2	0.80	TCLSHT
ABA0012_6-6	6	6	12		12144.3	0.07%			0.17	0.11	6	1	0.28	TCLSHT
ABA0112_6-6	6	6	12		14293.3	0.00%			0.60	0.89	12	2	1.49	TCLSHT
ABA0212_6-6	6	6	12		14347.4	0.12%			0.50	0.64	12	2	1.14	TCLSHT
ABA0312_6-6	6	6	12		14858.2	0.14%			0.55	0.34	6	1	0.89	TCLSHT
ABA0412_6-6	6	6	12		15070.1	0.16%			0.63	0.62	6	1	1.25	TCLSHT
ABA0512_6-6	6	6	12		14739.4	0.01%			0.51	0.65	12	2	1.16	TCLSHT
ABA0612_6-6	6	6	12		12767.0	0.00%			0.66	0.47	6	1	1.13	TCLSHT
ABA0712_6-6	6	6	12		15302.5	0.07%			0.49	0.90	24	4	1.40	TCLSHT
ABA0812_6-6	6	6	12		12617.6	0.00%			0.43	0.26	6	1	0.69	TCLSHT
ABA0912_6-6	6	6	12		14338.0	0.00%			0.70	1.58	18	3	2.28	TCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0018_6-6	6	6	18		17950.1	0.00%			0.33	0.19	8	1	0.51	TCLSHT
ABA0218_6-6	6	6	18		20080.0	0.03%			0.96	1.74	24	3	2.69	TCLSHT
ABA0318_6-6	6	6	18		20669.1	0.00%			0.91	1.46	16	2	2.37	TCLSHT
ABA0418_6-6	6	6	18		22435.7	0.00%			1.15	1.64	16	2	2.80	TCLSHT
ABA0518_6-6	6	6	18		22447.8	0.00%			1.18	1.61	16	2	2.79	TCLSHT
ABA0618_6-6	6	6	18		20119.8	0.00%			0.97	0.93	16	2	1.91	TCLSHT
ABA0718_6-6	6	6	18		22014.5	0.02%			0.84	1.15	16	2	2.00	TCLSHT
ABA0818_6-6	6	6	18		20277.5	0.09%			1.47	1.60	16	2	3.06	TCLSHT
ABA0918_6-6	6	6	18		21702.5	0.00%			1.23	1.45	16	2	2.69	TCLSHT
ABA006_6-12	12	6	6		12813.9	0.01%			0.43	0.52	10	2	0.95	TCLSHT
ABA016_6-12	12	6	6		13113.1	0.00%			1.08	0.44	5	1	1.52	TCLSHT
ABA026_6-12	12	6	6		12086.0	0.00%			0.34	0.34	10	2	0.68	TCLSHT
ABA036_6-12	12	6	6		12981.3	0.08%			0.18	0.12	5	1	0.30	TCLSHT
ABA046_6-12	12	6	6		12798.9	0.00%			0.34	0.40	10	2	0.74	TCLSHT
ABA056_6-12	12	6	6		12411.8	0.16%			0.31	0.17	5	1	0.48	TCLSHT
ABA066_6-12	12	6	6		11702.8	0.01%			0.50	0.24	5	1	0.74	TCLSHT
ABA076_6-12	12	6	6		13625.7	0.39%			0.67	0.91	10	2	1.58	TCLSHT
ABA086_6-12	12	6	6		13476.6	0.05%			0.65	0.44	10	2	1.09	TCLSHT
ABA096_6-12	12	6	6		14406.8	0.02%			0.48	0.86	10	2	1.34	TCLSHT
ABA0012_6-12	12	6	12		24234.3	0.02%			0.75	0.48	6	1	1.24	TCLSHT
ABA0112_6-12	12	6	12		25698.4	0.00%			1.18	1.91	18	3	3.09	TCLSHT
ABA0212_6-12	12	6	12		24225.2	0.03%			1.78	3.67	12	2	5.45	TCLSHT
ABA0312_6-12	12	6	12		26598.6	0.03%			1.12	1.30	12	2	2.42	TCLSHT
ABA0412_6-12	12	6	12		25073.5	0.00%			0.60	0.47	6	1	1.07	TCLSHT
ABA0512_6-12	12	6	12		26338.0	0.06%			0.99	1.08	12	2	2.07	TCLSHT
ABA0612_6-12	12	6	12		23665.5	0.12%			1.23	1.76	12	2	2.99	TCLSHT
ABA0712_6-12	12	6	12		28127.3	0.09%			6.76	10.48	12	2	17.24	TCLSHT
ABA0812_6-12	12	6	12		25966.2	0.16%			3.65	5.19	18	3	8.84	TCLSHT
ABA0912_6-12	12	6	12		27425.4	0.01%			1.71	2.28	12	2	3.99	TCLSHT
ABA0018_6-12	12	6	18		36553.7	0.00%			2.21	3.11	16	2	5.32	TCLSHT
ABA0118_6-12	12	6	18		41279.4	0.09%			5.56	9.24	24	3	14.80	TCLSHT
ABA0218_6-12	12	6	18		36881.5	0.00%			2.19	3.13	16	2	5.31	TCLSHT
ABA0318_6-12	12	6	18		38518.2	0.01%			1.79	2.89	16	2	4.68	TCLSHT
ABA0418_6-12	12	6	18		37127.4	0.00%			1.92	1.35	8	1	3.27	TCLSHT
ABA0518_6-12	12	6	18		40634.2	0.02%			3.24	4.74	16	2	7.98	TCLSHT
ABA0618_6-12	12	6	18		37436.0	0.04%			4.52	5.49	16	2	10.01	TCLSHT
ABA0718_6-12	12	6	18		41586.0	0.19%			12.85	13.41	24	3	26.26	TCLSHT
ABA0818_6-12	12	6	18		39545.3	0.30%			19.91	17.30	16	2	37.21	TCLSHT
ABA0918_6-12	12	6	18		41333.3	0.06%			5.26	10.93	32	4	16.19	TCLSHT
ABA006_6-25	25	6	6		25681.9	0.09%			3.11	0.89	5	1	4.00	TCLSHT
ABA016_6-25	25	6	6		25410.9	0.03%			1.23	3.20	15	3	4.43	TCLSHT
ABA026_6-25	25	6	6		26806.8	0.06%			0.99	0.86	10	2	1.86	TCLSHT
ABA036_6-25	25	6	6		26814.4	0.00%			6.33	14.23	15	3	20.56	TCLSHT
ABA046_6-25	25	6	6		28526.6	0.05%			3.95	9.57	15	3	13.53	TCLSHT
ABA056_6-25	25	6	6		26287.3	0.00%			0.92	1.81	15	3	2.73	TCLSHT
ABA066_6-25	25	6	6		25331.9	0.00%			0.47	0.83	10	2	1.30	TCLSHT
ABA076_6-25	25	6	6		27989.0	0.05%			1.56	1.74	15	3	3.31	TCLSHT
ABA086_6-25	25	6	6		26694.2	0.10%			1.49	0.72	5	1	2.22	TCLSHT
ABA096_6-25	25	6	6		26353.2	0.04%			0.85	0.46	5	1	1.31	TCLSHT
ABA0012_6-25	25	6	12		52447.1	0.07%			9.79	24.58	24	4	34.37	TCLSHT
ABA0112_6-25	25	6	12		52674.3	0.19%			15.74	24.65	12	2	40.39	TCLSHT
ABA0212_6-25	25	6	12		54047.7	0.10%			5.54	3.68	12	2	9.22	TCLSHT
ABA0312_6-25	25	6	12		52445.4	0.15%			14.00	10.83	12	2	24.84	TCLSHT
ABA0412_6-25	25	6	12		56010.2	0.14%			13.31	26.41	18	3	39.72	TCLSHT
ABA0512_6-25	25	6	12		51791.9	0.02%			7.75	18.60	18	3	26.36	TCLSHT
ABA0612_6-25	25	6	12		50984.3	0.00%			1.46	1.28	12	2	2.74	TCLSHT
ABA0712_6-25	25	6	12		52753.5	0.11%			9.77	8.47	18	3	18.24	TCLSHT
ABA0812_6-25	25	6	12		51199.6	0.03%			5.16	5.34	18	3	10.51	TCLSHT
ABA0912_6-25	25	6	12		53586.2	0.01%			4.77	4.93	18	3	9.70	TCLSHT
ABA0018_6-25	25	6	18		76458.0	0.21%			37.28	90.94	24	3	128.22	TCLSHT
ABA0118_6-25	25	6	18		79463.0	0.11%			24.80	18.37	16	2	43.17	TCLSHT
ABA0218_6-25	25	6	18		81688.1	0.04%			19.91	13.04	16	2	32.96	TCLSHT
ABA0318_6-25	25	6	18		79841.9	0.23%			61.77	102.55	24	3	164.32	TCLSHT
ABA0418_6-25	25	6	18		84953.6	0.16%			56.55	98.57	32	4	155.12	TCLSHT
ABA0518_6-25	25	6	18		80996.9	0.06%			18.85	29.92	24	3	48.76	TCLSHT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0618_6-25	25	6	18		76313.2	0.00%			4.60	4.47	16	2	9.07	TCLSHT
ABA0718_6-25	25	6	18		77695.9	0.05%			17.23	9.78	16	2	27.01	TCLSHT
ABA0818_6-25	25	6	18		75117.4	0.02%			13.45	8.34	16	2	21.79	TCLSHT
ABA0918_6-25	25	6	18		81311.5	0.01%			6.80	7.80	24	3	14.61	TCLSHT
ABA006_6-50	50	6	6		50612.1	0.01%			1.36	4.70	10	2	6.06	TCLSHT
ABA016_6-50	50	6	6		50642.8	0.01%			1.82	1.74	10	2	3.57	TCLSHT
ABA026_6-50	50	6	6		52179.2	0.00%			6.54	23.64	20	4	30.19	TCLSHT
ABA036_6-50	50	6	6		51706.9	0.04%			2.24	2.41	15	3	4.65	TCLSHT
ABA046_6-50	50	6	6		54047.8	0.09%			6.96	6.14	10	2	13.10	TCLSHT
ABA056_6-50	50	6	6		52772.4	0.03%			2.30	8.78	15	3	11.08	TCLSHT
ABA066_6-50	50	6	6		51976.3	0.04%			11.33	4.73	10	2	16.06	TCLSHT
ABA076_6-50	50	6	6		54003.7	0.00%			1.89	3.52	20	4	5.42	TCLSHT
ABA086_6-50	50	6	6		50897.6	0.06%			3.82	3.89	10	2	7.71	TCLSHT
ABA096_6-50	50	6	6		50689.7	0.03%			6.60	2.13	10	2	8.73	TCLSHT
ABA0012_6-50	50	6	12		102496.1	0.00%			7.83	4.67	12	2	12.50	TCLSHT
ABA0112_6-50	50	6	12		101537.3	0.02%			9.24	11.05	24	4	20.29	TCLSHT
ABA0212_6-50	50	6	12		105098.0	0.05%			24.76	38.59	18	3	63.36	TCLSHT
ABA0312_6-50	50	6	12		102580.7	0.03%			7.34	18.44	30	5	25.77	TCLSHT
ABA0412_6-50	50	6	12		109764.7	0.05%			16.02	23.95	12	2	39.97	TCLSHT
ABA0512_6-50	50	6	12		105435.1	0.10%			15.75	49.31	24	4	65.06	TCLSHT
ABA0612_6-50	50	6	12		102061.3	0.09%			27.19	46.13	18	3	73.32	TCLSHT
ABA0712_6-50	50	6	12		107579.2	0.04%			12.81	14.90	18	3	27.71	TCLSHT
ABA0812_6-50	50	6	12		99917.0	0.03%			7.25	6.29	12	2	13.54	TCLSHT
ABA0912_6-50	50	6	12		102314.2	0.00%			11.76	10.56	18	3	22.32	TCLSHT
ABA0018_6-50	50	6	18		152831.3	0.03%			30.98	56.59	24	3	87.57	TCLSHT
ABA0118_6-50	50	6	18		150964.2	0.01%			23.60	37.71	24	3	61.31	TCLSHT
ABA0218_6-50	50	6	18		154515.7	0.07%			41.25	28.49	8	1	69.73	TCLSHT
ABA0318_6-50	50	6	18		154200.6	0.00%			23.63	10.54	16	2	34.17	TCLSHT
ABA0418_6-50	50	6	18		164889.3	0.07%			48.33	92.95	32	4	141.28	TCLSHT
ABA0518_6-50	50	6	18		155419.1	0.06%			34.69	95.99	32	4	130.67	TCLSHT
ABA0618_6-50	50	6	18		154294.5	0.08%			60.13	171.49	48	6	231.62	TCLSHT
ABA0718_6-50	50	6	18		159123.6	0.02%			20.46	22.58	16	2	43.04	TCLSHT
ABA0818_6-50	50	6	18		151038.1	0.00%			18.07	27.27	24	3	45.34	TCLSHT
ABA0918_6-50	50	6	18		154191.1	0.03%			26.43	36.20	24	3	62.63	TCLSHT
ABB006_2-6	6	2	6		8227.1	0.01%			0.15	0.08	5	1	0.23	TCLSLT
ABB016_2-6	6	2	6		6010.0	0.21%			0.07	0.11	10	2	0.19	TCLSLT
ABB026_2-6	6	2	6		7157.4	0.00%			0.08	0.08	5	1	0.17	TCLSLT
ABB046_2-6	6	2	6		8062.9	0.39%			0.25	0.34	10	2	0.59	TCLSLT
ABB056_2-6	6	2	6		9398.0	0.00%			0.09	0.18	15	3	0.26	TCLSLT
ABB066_2-6	6	2	6		8112.2	0.00%			0.12	0.16	10	2	0.27	TCLSLT
ABB076_2-6	6	2	6		9178.5	0.00%			0.10	0.07	5	1	0.18	TCLSLT
ABB086_2-6	6	2	6		8202.5	0.00%			0.08	0.13	10	2	0.21	TCLSLT
ABB096_2-6	6	2	6		7159.3	0.10%			0.06	0.04	5	1	0.11	TCLSLT
ABB0012_2-6	6	2	12		15730.8	0.10%			0.48	1.17	18	3	1.65	TCLSLT
ABB0112_2-6	6	2	12		13458.1	0.00%			0.23	0.17	6	1	0.40	TCLSLT
ABB0212_2-6	6	2	12		15049.7	0.66%			0.35	0.26	6	1	0.61	TCLSLT
ABB0412_2-6	6	2	12		14154.4	0.10%			0.47	0.75	12	2	1.22	TCLSLT
ABB0512_2-6	6	2	12		17484.8	0.05%			0.21	0.23	12	2	0.44	TCLSLT
ABB0612_2-6	6	2	12		15084.0	0.00%			0.22	0.38	12	2	0.60	TCLSLT
ABB0712_2-6	6	2	12		16747.6	0.21%			0.29	0.45	12	2	0.74	TCLSLT
ABB0812_2-6	6	2	12		14192.0	0.04%			0.25	0.27	12	2	0.51	TCLSLT
ABB0912_2-6	6	2	12		16186.7	0.17%			0.24	0.16	6	1	0.40	TCLSLT
ABB0018_2-6	6	2	18		22001.6	0.24%			1.47	2.15	16	2	3.61	TCLSLT
ABB0118_2-6	6	2	18		20184.6	0.00%			0.37	0.63	24	3	1.00	TCLSLT
ABB0218_2-6	6	2	18		22600.6	0.04%			0.62	1.55	24	3	2.17	TCLSLT
ABB0418_2-6	6	2	18		20420.0	0.16%			1.04	2.04	24	3	3.08	TCLSLT
ABB0518_2-6	6	2	18		25198.4	0.00%			0.54	1.38	24	3	1.93	TCLSLT
ABB0618_2-6	6	2	18		22943.8	0.00%			0.62	0.86	16	2	1.48	TCLSLT
ABB0718_2-6	6	2	18		24518.6	0.06%			0.84	1.42	16	2	2.26	TCLSLT
ABB0818_2-6	6	2	18		21004.8	0.16%			0.54	1.08	16	2	1.62	TCLSLT
ABB0918_2-6	6	2	18		22508.0	0.00%			0.40	0.52	16	2	0.92	TCLSLT
ABB006_2-12	12	2	6		12764.4	0.10%			0.16	0.20	10	2	0.36	TCLSLT
ABB016_2-12	12	2	6		14316.4	0.00%			0.15	0.18	10	2	0.34	TCLSLT
ABB026_2-12	12	2	6		14399.2	0.11%			0.21	0.27	10	2	0.49	TCLSLT
ABB036_2-12	12	2	6		16394.0	0.00%			0.18	0.18	10	2	0.35	TCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB046_2-12	12	2	6		14305.2	0.17%			0.25	0.56	15	3	0.81	TCLSLT
ABB056_2-12	12	2	6		16645.2	0.12%			0.19	0.16	5	1	0.35	TCLSLT
ABB066_2-12	12	2	6		13856.2	0.07%			0.23	0.15	10	2	0.38	TCLSLT
ABB076_2-12	12	2	6		15473.8	0.06%			0.20	0.22	10	2	0.42	TCLSLT
ABB086_2-12	12	2	6		12982.3	0.00%			0.21	0.28	10	2	0.50	TCLSLT
ABB096_2-12	12	2	6		16046.8	0.09%			0.38	0.26	5	1	0.64	TCLSLT
ABB0012_2-12	12	2	12		26301.0	0.07%			0.24	0.17	6	1	0.40	TCLSLT
ABB0112_2-12	12	2	12		27569.3	0.22%			0.31	0.69	12	2	1.00	TCLSLT
ABB0212_2-12	12	2	12		27436.1	0.16%			0.79	1.75	18	3	2.54	TCLSLT
ABB0312_2-12	12	2	12		31862.6	0.04%			0.47	0.72	12	2	1.19	TCLSLT
ABB0412_2-12	12	2	12		28364.6	0.02%			0.47	0.63	12	2	1.10	TCLSLT
ABB0512_2-12	12	2	12		32227.5	0.08%			0.53	1.02	18	3	1.55	TCLSLT
ABB0612_2-12	12	2	12		27347.3	0.00%			0.42	1.02	24	4	1.44	TCLSLT
ABB0712_2-12	12	2	12		30567.5	0.01%			0.41	0.67	12	2	1.09	TCLSLT
ABB0812_2-12	12	2	12		26794.7	0.18%			0.59	0.96	18	3	1.56	TCLSLT
ABB0912_2-12	12	2	12		31318.2	0.24%			1.98	2.11	18	3	4.09	TCLSLT
ABB0118_2-12	12	2	18		40651.0	0.08%			1.51	2.03	16	2	3.54	TCLSLT
ABB0218_2-12	12	2	18		42020.5	0.14%			1.80	3.80	16	2	5.60	TCLSLT
ABB0318_2-12	12	2	18		46479.3	0.16%			1.97	2.64	16	2	4.61	TCLSLT
ABB0418_2-12	12	2	18		44293.8	0.03%			1.21	3.33	32	4	4.53	TCLSLT
ABB0518_2-12	12	2	18		47456.9	0.10%			1.52	3.26	24	3	4.78	TCLSLT
ABB0618_2-12	12	2	18		40776.3	0.05%			0.87	1.44	16	2	2.31	TCLSLT
ABB0718_2-12	12	2	18		45510.8	0.00%			1.08	1.93	24	3	3.02	TCLSLT
ABB0818_2-12	12	2	18		41460.9	0.02%			1.87	3.01	24	3	4.88	TCLSLT
ABB0918_2-12	12	2	18		47593.3	0.30%			7.94	4.96	16	2	12.90	TCLSLT
ABB006_2-25	25	2	6		29219.5	0.00%			0.31	0.37	15	3	0.68	TCLSLT
ABB016_2-25	25	2	6		29996.3	0.14%			0.53	0.93	20	4	1.46	TCLSLT
ABB026_2-25	25	2	6		28785.3	0.04%			0.62	0.29	5	1	0.90	TCLSLT
ABB036_2-25	25	2	6		30291.7	0.05%			1.33	0.92	15	3	2.25	TCLSLT
ABB046_2-25	25	2	6		31559.0	0.05%			0.40	0.60	10	2	1.00	TCLSLT
ABB056_2-25	25	2	6		31752.9	0.02%			1.04	1.81	15	3	2.85	TCLSLT
ABB066_2-25	25	2	6		27896.2	0.00%			0.25	0.23	10	2	0.48	TCLSLT
ABB076_2-25	25	2	6		31449.9	0.04%			0.71	0.66	10	2	1.38	TCLSLT
ABB086_2-25	25	2	6		32385.9	0.11%			0.61	1.10	10	2	1.72	TCLSLT
ABB096_2-25	25	2	6		33506.0	0.11%			0.91	0.65	10	2	1.56	TCLSLT
ABB0012_2-25	25	2	12		58376.6	0.08%			1.26	3.36	18	3	4.62	TCLSLT
ABB0112_2-25	25	2	12		61141.1	0.09%			2.86	1.62	12	2	4.47	TCLSLT
ABB0212_2-25	25	2	12		56476.2	0.07%			1.04	3.33	24	4	4.37	TCLSLT
ABB0312_2-25	25	2	12		59413.4	0.17%			1.88	5.08	18	3	6.96	TCLSLT
ABB0412_2-25	25	2	12		59893.9	0.06%			1.29	1.78	18	3	3.07	TCLSLT
ABB0512_2-25	25	2	12		65460.1	0.28%			4.93	4.64	12	2	9.58	TCLSLT
ABB0612_2-25	25	2	12		57277.3	0.00%			0.47	0.81	18	3	1.28	TCLSLT
ABB0712_2-25	25	2	12		62967.6	0.11%			2.21	1.69	12	2	3.90	TCLSLT
ABB0812_2-25	25	2	12		63128.5	0.07%			5.52	10.27	18	3	15.78	TCLSLT
ABB0912_2-25	25	2	12		64213.9	0.16%			2.38	1.96	12	2	4.35	TCLSLT
ABB0018_2-25	25	2	18		87097.0	0.00%			1.34	2.59	24	3	3.93	TCLSLT
ABB0118_2-25	25	2	18		88756.4	0.07%			4.79	3.51	16	2	8.30	TCLSLT
ABB0218_2-25	25	2	18		83542.1	0.05%			3.64	4.90	24	3	8.54	TCLSLT
ABB0318_2-25	25	2	18		91615.2	0.10%			9.68	26.75	24	3	36.43	TCLSLT
ABB0418_2-25	25	2	18		90844.7	0.05%			2.92	5.93	24	3	8.84	TCLSLT
ABB0518_2-25	25	2	18		95605.8	0.17%			20.05	34.49	16	2	54.54	TCLSLT
ABB0618_2-25	25	2	18		83642.2	0.03%			1.74	1.70	16	2	3.44	TCLSLT
ABB0718_2-25	25	2	18		92466.3	0.09%			15.06	17.27	16	2	32.33	TCLSLT
ABB0818_2-25	25	2	18		91830.8	0.09%			11.81	26.86	24	3	38.67	TCLSLT
ABB0918_2-25	25	2	18		93412.4	0.07%			4.29	6.99	24	3	11.28	TCLSLT
ABB006_2-50	50	2	6		58887.6	0.07%			0.74	0.71	10	2	1.45	TCLSLT
ABB016_2-50	50	2	6		60398.7	0.04%			0.58	0.56	10	2	1.14	TCLSLT
ABB026_2-50	50	2	6		56488.6	0.10%			1.57	1.26	10	2	2.83	TCLSLT
ABB036_2-50	50	2	6		59494.3	0.06%			0.75	0.88	10	2	1.64	TCLSLT
ABB046_2-50	50	2	6		61258.7	0.07%			1.86	3.98	15	3	5.84	TCLSLT
ABB056_2-50	50	2	6		59591.0	0.06%			0.89	1.54	15	3	2.43	TCLSLT
ABB066_2-50	50	2	6		56231.2	0.10%			0.85	0.89	10	2	1.74	TCLSLT
ABB076_2-50	50	2	6		59168.6	0.08%			1.35	0.37	5	1	1.73	TCLSLT
ABB086_2-50	50	2	6		60201.8	0.02%			1.23	1.21	10	2	2.44	TCLSLT
ABB096_2-50	50	2	6		60846.4	0.07%			1.09	0.78	10	2	1.87	TCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0012_2-50	50	2	12		117418.4	0.02%			1.63	2.49	12	2	4.13	TCLSLT
ABB0112_2-50	50	2	12		119981.1	0.01%			1.59	1.88	18	3	3.47	TCLSLT
ABB0212_2-50	50	2	12		114364.7	0.04%			10.41	7.33	18	3	17.74	TCLSLT
ABB0312_2-50	50	2	12		120133.6	0.02%			2.09	2.73	18	3	4.82	TCLSLT
ABB0412_2-50	50	2	12		122647.9	0.08%			9.42	18.87	18	3	28.28	TCLSLT
ABB0512_2-50	50	2	12		119656.0	0.03%			2.50	12.66	18	3	15.17	TCLSLT
ABB0612_2-50	50	2	12		113775.2	0.04%			1.89	2.88	18	3	4.77	TCLSLT
ABB0712_2-50	50	2	12		115039.9	0.03%			5.63	8.78	18	3	14.42	TCLSLT
ABB0812_2-50	50	2	12		115756.2	0.07%			4.40	4.54	18	3	8.94	TCLSLT
ABB0912_2-50	50	2	12		122636.2	0.01%			3.16	4.30	18	3	7.46	TCLSLT
ABB0018_2-50	50	2	18		175833.3	0.01%			4.47	3.53	24	3	8.00	TCLSLT
ABB0118_2-50	50	2	18		178907.7	0.01%			5.56	6.44	24	3	12.01	TCLSLT
ABB0218_2-50	50	2	18		170101.0	0.04%			16.73	52.51	32	4	69.24	TCLSLT
ABB0318_2-50	50	2	18		181265.1	0.02%			14.52	18.03	24	3	32.54	TCLSLT
ABB0418_2-50	50	2	18		182940.7	0.06%			38.99	154.04	48	6	193.04	TCLSLT
ABB0518_2-50	50	2	18		181350.0	0.01%			11.47	20.45	24	3	31.92	TCLSLT
ABB0618_2-50	50	2	18		171904.2	0.00%			6.43	3.28	16	2	9.71	TCLSLT
ABB0718_2-50	50	2	18		172686.3	0.02%			9.93	26.86	48	6	36.79	TCLSLT
ABB0818_2-50	50	2	18		173957.4	0.03%			13.87	11.38	24	3	25.24	TCLSLT
ABB0918_2-50	50	2	18		183309.8	0.02%			19.12	96.43	48	6	115.55	TCLSLT
ABB006_4-6	6	4	6		6470.9	0.20%			0.18	0.14	5	1	0.32	TCLSLT
ABB016_4-6	6	4	6		7416.4	0.00%			0.28	0.48	10	2	0.76	TCLSLT
ABB026_4-6	6	4	6		7463.2	0.00%			0.15	0.38	15	3	0.52	TCLSLT
ABB036_4-6	6	4	6		6820.0	0.00%			0.14	0.08	5	1	0.22	TCLSLT
ABB046_4-6	6	4	6		5688.1	0.11%			0.15	0.12	5	1	0.27	TCLSLT
ABB056_4-6	6	4	6		8022.7	0.04%			0.25	0.35	10	2	0.60	TCLSLT
ABB066_4-6	6	4	6		6528.9	0.38%			0.24	0.09	5	1	0.33	TCLSLT
ABB076_4-6	6	4	6		7824.3	0.00%			0.17	0.09	5	1	0.26	TCLSLT
ABB086_4-6	6	4	6		5917.1	0.00%			0.14	0.10	10	2	0.24	TCLSLT
ABB096_4-6	6	4	6		8624.6	0.15%			0.14	0.24	10	2	0.38	TCLSLT
ABB0012_4-6	6	4	12		11951.3	0.00%			0.20	0.31	12	2	0.51	TCLSLT
ABB0112_4-6	6	4	12		15540.1	0.06%			0.72	2.15	18	3	2.88	TCLSLT
ABB0212_4-6	6	4	12		14806.5	0.09%			0.47	1.26	18	3	1.73	TCLSLT
ABB0312_4-6	6	4	12		14718.6	0.00%			0.34	0.17	6	1	0.50	TCLSLT
ABB0412_4-6	6	4	12		13197.0	0.00%			1.02	0.64	6	1	1.66	TCLSLT
ABB0512_4-6	6	4	12		16257.7	0.00%			2.05	2.60	18	3	4.64	TCLSLT
ABB0612_4-6	6	4	12		12954.4	0.00%			0.36	0.32	12	2	0.68	TCLSLT
ABB0712_4-6	6	4	12		14888.4	0.03%			0.27	0.42	12	2	0.69	TCLSLT
ABB0812_4-6	6	4	12		12642.1	0.35%			0.42	0.41	12	2	0.83	TCLSLT
ABB0912_4-6	6	4	12		15123.1	0.04%			0.36	0.51	12	2	0.87	TCLSLT
ABB0018_4-6	6	4	18		18918.2	0.00%			0.99	0.65	8	1	1.64	TCLSLT
ABB0118_4-6	6	4	18		22172.5	0.06%			1.81	2.35	16	2	4.15	TCLSLT
ABB0218_4-6	6	4	18		21741.8	0.03%			1.01	3.05	24	3	4.06	TCLSLT
ABB0318_4-6	6	4	18		22543.4	0.01%			1.08	2.20	24	3	3.28	TCLSLT
ABB0418_4-6	6	4	18		20284.7	0.00%			1.13	1.43	16	2	2.56	TCLSLT
ABB0518_4-6	6	4	18		24088.7	0.32%			4.26	5.39	16	2	9.65	TCLSLT
ABB0618_4-6	6	4	18		20158.6	0.01%			1.31	2.03	24	3	3.34	TCLSLT
ABB0718_4-6	6	4	18		22690.3	0.00%			0.69	1.21	16	2	1.90	TCLSLT
ABB0818_4-6	6	4	18		18410.0	0.02%			0.91	1.04	16	2	1.95	TCLSLT
ABB0918_4-6	6	4	18		22391.8	0.00%			0.82	0.84	16	2	1.66	TCLSLT
ABB006_4-12	12	4	6		13452.7	0.05%			0.64	0.69	10	2	1.33	TCLSLT
ABB016_4-12	12	4	6		15659.3	0.06%			0.75	1.52	15	3	2.27	TCLSLT
ABB026_4-12	12	4	6		13235.9	0.00%			0.26	0.54	10	2	0.79	TCLSLT
ABB036_4-12	12	4	6		12477.0	0.08%			0.39	0.62	10	2	1.01	TCLSLT
ABB046_4-12	12	4	6		14507.0	0.16%			0.39	0.28	5	1	0.67	TCLSLT
ABB056_4-12	12	4	6		14340.8	0.00%			1.12	1.04	10	2	2.16	TCLSLT
ABB066_4-12	12	4	6		12711.2	0.11%			0.25	0.35	15	3	0.60	TCLSLT
ABB076_4-12	12	4	6		12612.6	0.05%			0.45	0.26	5	1	0.71	TCLSLT
ABB086_4-12	12	4	6		14773.6	0.02%			0.28	0.47	10	2	0.75	TCLSLT
ABB096_4-12	12	4	6		13408.5	0.19%			0.71	0.40	5	1	1.11	TCLSLT
ABB0012_4-12	12	4	12		25179.4	0.13%			1.83	2.98	12	2	4.81	TCLSLT
ABB0112_4-12	12	4	12		29087.0	0.58%			11.15	9.33	18	3	20.48	TCLSLT
ABB0212_4-12	12	4	12		26756.0	0.02%			1.29	2.29	12	2	3.58	TCLSLT
ABB0312_4-12	12	4	12		25865.1	0.23%			1.33	2.14	12	2	3.47	TCLSLT
ABB0412_4-12	12	4	12		27606.6	0.03%			1.03	1.56	12	2	2.59	TCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0512_4-12	12	4	12		28254.7	0.22%			2.76	4.07	12	2	6.83	TCLSLT
ABB0612_4-12	12	4	12		24754.1	0.00%			0.41	0.65	12	2	1.06	TCLSLT
ABB0712_4-12	12	4	12		26669.2	0.08%			1.52	2.76	18	3	4.28	TCLSLT
ABB0812_4-12	12	4	12		28388.9	0.06%			0.91	1.11	12	2	2.03	TCLSLT
ABB0912_4-12	12	4	12		29012.9	0.39%			9.50	10.72	12	2	20.22	TCLSLT
ABB0018_4-12	12	4	18		38888.6	0.21%			12.29	11.46	16	2	23.75	TCLSLT
ABB0118_4-12	12	4	18		42631.1	0.30%			17.92	23.46	16	2	41.38	TCLSLT
ABB0218_4-12	12	4	18		39696.5	0.02%			2.86	5.27	16	2	8.13	TCLSLT
ABB0318_4-12	12	4	18		40317.2	0.44%			17.48	41.35	24	3	58.83	TCLSLT
ABB0418_4-12	12	4	18		41080.7	0.14%			5.07	3.61	16	2	8.68	TCLSLT
ABB0518_4-12	12	4	18		41414.6	0.15%			7.68	11.04	16	2	18.73	TCLSLT
ABB0618_4-12	12	4	18		37402.2	0.02%			1.62	2.69	16	2	4.31	TCLSLT
ABB0718_4-12	12	4	18		41689.4	0.17%			12.78	9.98	16	2	22.76	TCLSLT
ABB0818_4-12	12	4	18		43228.4	0.23%			3.84	5.41	16	2	9.25	TCLSLT
ABB0918_4-12	12	4	18		42097.8	0.34%			8.74	19.69	16	2	28.43	TCLSLT
ABB006_4-25	25	4	6		25707.3	0.00%			0.63	0.50	10	2	1.13	TCLSLT
ABB016_4-25	25	4	6		29631.1	0.02%			0.64	0.80	10	2	1.45	TCLSLT
ABB026_4-25	25	4	6		27853.7	0.00%			2.75	3.79	10	2	6.54	TCLSLT
ABB036_4-25	25	4	6		26339.5	0.18%			4.36	3.09	10	2	7.45	TCLSLT
ABB046_4-25	25	4	6		26822.8	0.24%			0.35	0.64	10	2	0.99	TCLSLT
ABB056_4-25	25	4	6		30269.9	0.00%			1.25	0.71	10	2	1.96	TCLSLT
ABB066_4-25	25	4	6		25489.2	0.06%			0.68	0.55	10	2	1.24	TCLSLT
ABB076_4-25	25	4	6		27342.9	0.08%			5.39	0.94	5	1	6.33	TCLSLT
ABB086_4-25	25	4	6		26356.5	0.02%			0.62	0.72	10	2	1.34	TCLSLT
ABB096_4-25	25	4	6		28077.8	0.00%			1.45	1.31	15	3	2.76	TCLSLT
ABB0012_4-25	25	4	12		54090.4	0.15%			13.08	35.36	18	3	48.44	TCLSLT
ABB0112_4-25	25	4	12		56539.5	0.00%			3.91	4.12	18	3	8.02	TCLSLT
ABB0212_4-25	25	4	12		53635.9	0.20%			10.15	18.15	12	2	28.30	TCLSLT
ABB0312_4-25	25	4	12		54457.9	0.16%			8.08	9.89	12	2	17.97	TCLSLT
ABB0412_4-25	25	4	12		55101.9	0.01%			3.18	1.71	12	2	4.90	TCLSLT
ABB0512_4-25	25	4	12		57313.5	0.04%			8.13	12.45	18	3	20.58	TCLSLT
ABB0612_4-25	25	4	12		50882.9	0.05%			1.86	2.09	12	2	3.95	TCLSLT
ABB0712_4-25	25	4	12		55986.1	0.23%			15.46	34.08	18	3	49.54	TCLSLT
ABB0812_4-25	25	4	12		54349.0	0.03%			11.73	13.59	12	2	25.32	TCLSLT
ABB0912_4-25	25	4	12		55290.0	0.23%			15.60	41.01	18	3	56.62	TCLSLT
ABB0018_4-25	25	4	18		78531.7	0.13%			20.73	44.99	24	3	65.73	TCLSLT
ABB0118_4-25	25	4	18		84171.9	0.06%			12.24	7.58	16	2	19.82	TCLSLT
ABB0218_4-25	25	4	18		81407.5	0.23%			36.27	104.47	24	3	140.74	TCLSLT
ABB0318_4-25	25	4	18		80991.2	0.17%			23.19	29.12	16	2	52.32	TCLSLT
ABB0418_4-25	25	4	18		83484.4	0.01%			7.10	5.57	16	2	12.67	TCLSLT
ABB0518_4-25	25	4	18		84676.3	0.08%			17.40	36.60	24	3	54.00	TCLSLT
ABB0618_4-25	25	4	18		77591.5	0.02%			5.16	6.77	24	3	11.94	TCLSLT
ABB0718_4-25	25	4	18		83271.5	0.22%			48.12	118.71	24	3	166.83	TCLSLT
ABB0818_4-25	25	4	18		78766.7	0.08%			10.09	18.08	24	3	28.17	TCLSLT
ABB0918_4-25	25	4	18		82797.9	0.13%			28.58	23.41	16	2	51.99	TCLSLT
ABB006_4-50	50	4	6		54808.5	0.05%			1.56	4.83	10	2	6.39	TCLSLT
ABB016_4-50	50	4	6		55550.9	0.02%			2.40	1.58	10	2	3.99	TCLSLT
ABB026_4-50	50	4	6		56255.2	0.04%			3.32	4.67	20	4	7.98	TCLSLT
ABB036_4-50	50	4	6		55554.5	0.06%			3.36	11.70	15	3	15.06	TCLSLT
ABB046_4-50	50	4	6		57303.4	0.13%			17.54	60.67	30	6	78.21	TCLSLT
ABB056_4-50	50	4	6		57520.5	0.03%			5.75	9.28	20	4	15.03	TCLSLT
ABB066_4-50	50	4	6		53000.1	0.03%			1.79	3.59	20	4	5.37	TCLSLT
ABB076_4-50	50	4	6		51899.5	0.08%			4.13	5.47	15	3	9.60	TCLSLT
ABB086_4-50	50	4	6		53126.3	0.06%			3.93	1.57	10	2	5.50	TCLSLT
ABB096_4-50	50	4	6		60323.2	0.08%			2.69	3.06	15	3	5.75	TCLSLT
ABB0012_4-50	50	4	12		110825.6	0.07%			18.41	26.80	12	2	45.22	TCLSLT
ABB0112_4-50	50	4	12		108708.0	0.10%			4.64	8.49	18	3	13.13	TCLSLT
ABB0212_4-50	50	4	12		108319.8	0.08%			16.04	37.21	24	4	53.25	TCLSLT
ABB0312_4-50	50	4	12		110662.5	0.10%			20.98	49.36	24	4	70.34	TCLSLT
ABB0412_4-50	50	4	12		110181.4	0.10%			23.50	39.24	18	3	62.73	TCLSLT
ABB0512_4-50	50	4	12		112191.2	0.05%			8.23	3.59	12	2	11.82	TCLSLT
ABB0612_4-50	50	4	12		104197.7	0.05%			1.92	2.15	12	2	4.06	TCLSLT
ABB0712_4-50	50	4	12		107100.6	0.14%			25.76	44.23	18	3	69.99	TCLSLT
ABB0812_4-50	50	4	12		106697.7	0.04%			5.01	7.27	18	3	12.27	TCLSLT
ABB0912_4-50	50	4	12		114629.6	0.08%			11.81	5.95	12	2	17.76	TCLSLT

Continua na Próxima Página

Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0018_4-50	50	4	18		160437.2	0.05%			22.91	31.84	16	2	54.76	TCLSLT
ABB0118_4-50	50	4	18		162058.8	0.04%			26.66	22.47	24	3	49.14	TCLSLT
ABB0218_4-50	50	4	18		163370.1	0.03%			29.97	50.74	24	3	80.71	TCLSLT
ABB0318_4-50	50	4	18		163923.7	0.08%			51.03	71.05	24	3	122.08	TCLSLT
ABB0418_4-50	50	4	18		167291.3	0.12%			57.10	157.50	32	4	214.60	TCLSLT
ABB0518_4-50	50	4	18		168404.1	0.05%			25.42	45.59	24	3	71.01	TCLSLT
ABB0618_4-50	50	4	18		156616.9	0.06%			24.70	29.49	24	3	54.19	TCLSLT
ABB0718_4-50	50	4	18		162345.8	0.08%			49.99	94.39	24	3	144.38	TCLSLT
ABB0818_4-50	50	4	18		157567.4	0.03%			16.83	14.57	24	3	31.40	TCLSLT
ABB0918_4-50	50	4	18		168771.1	0.05%			26.69	42.21	24	3	68.90	TCLSLT
ABB006_6-6	6	6	6		5808.9	0.00%			0.12	0.16	10	2	0.29	TCLSLT
ABB026_6-6	6	6	6		7102.0	0.00%			0.18	0.19	10	2	0.37	TCLSLT
ABB036_6-6	6	6	6		7664.4	0.34%			0.16	0.11	5	1	0.27	TCLSLT
ABB046_6-6	6	6	6		8264.1	0.00%			0.18	0.11	5	1	0.28	TCLSLT
ABB056_6-6	6	6	6		8225.7	0.27%			0.32	0.16	5	1	0.48	TCLSLT
ABB066_6-6	6	6	6		6872.6	0.06%			0.23	0.31	10	2	0.54	TCLSLT
ABB076_6-6	6	6	6		7942.5	0.00%			0.26	0.20	10	2	0.46	TCLSLT
ABB086_6-6	6	6	6		6933.5	0.00%			0.28	0.46	20	4	0.74	TCLSLT
ABB096_6-6	6	6	6		7803.0	0.20%			0.52	0.44	10	2	0.97	TCLSLT
ABB0012_6-6	6	6	12		12403.1	0.08%			0.27	0.14	6	1	0.41	TCLSLT
ABB0212_6-6	6	6	12		14581.9	0.00%			0.58	0.95	18	3	1.53	TCLSLT
ABB0312_6-6	6	6	12		15080.3	0.01%			0.36	0.42	12	2	0.78	TCLSLT
ABB0412_6-6	6	6	12		15453.4	0.02%			1.11	1.38	12	2	2.49	TCLSLT
ABB0512_6-6	6	6	12		15019.5	0.00%			0.52	1.40	30	5	1.92	TCLSLT
ABB0612_6-6	6	6	12		13133.9	0.00%			0.93	1.57	12	2	2.50	TCLSLT
ABB0712_6-6	6	6	12		15510.8	0.00%			0.36	0.45	12	2	0.81	TCLSLT
ABB0812_6-6	6	6	12		13059.8	0.34%			0.68	1.00	12	2	1.68	TCLSLT
ABB0912_6-6	6	6	12		14791.0	0.12%			0.62	1.11	12	2	1.73	TCLSLT
ABB0018_6-6	6	6	18		18384.6	0.00%			0.55	0.60	16	2	1.15	TCLSLT
ABB0218_6-6	6	6	18		20319.5	0.01%			0.80	0.82	16	2	1.62	TCLSLT
ABB0318_6-6	6	6	18		21090.5	0.00%			0.89	1.25	16	2	2.15	TCLSLT
ABB0418_6-6	6	6	18		23163.1	0.07%			2.73	4.77	24	3	7.50	TCLSLT
ABB0518_6-6	6	6	18		22881.4	0.01%			1.54	2.01	16	2	3.55	TCLSLT
ABB0618_6-6	6	6	18		20668.4	0.06%			2.92	3.70	16	2	6.62	TCLSLT
ABB0718_6-6	6	6	18		22420.6	0.00%			1.13	1.04	16	2	2.17	TCLSLT
ABB0818_6-6	6	6	18		20798.2	0.05%			2.22	3.79	40	5	6.01	TCLSLT
ABB0918_6-6	6	6	18		22359.3	0.06%			4.47	4.45	16	2	8.92	TCLSLT
ABB006_6-12	12	6	6		12926.7	0.00%			0.69	1.03	15	3	1.73	TCLSLT
ABB016_6-12	12	6	6		13336.3	0.05%			0.54	1.50	15	3	2.04	TCLSLT
ABB026_6-12	12	6	6		12238.9	0.00%			0.44	0.37	5	1	0.80	TCLSLT
ABB036_6-12	12	6	6		13147.8	0.00%			0.27	0.63	15	3	0.91	TCLSLT
ABB046_6-12	12	6	6		12862.7	0.00%			0.49	0.25	5	1	0.74	TCLSLT
ABB056_6-12	12	6	6		12460.3	0.00%			0.36	0.42	10	2	0.79	TCLSLT
ABB066_6-12	12	6	6		11846.3	0.00%			0.56	0.22	5	1	0.78	TCLSLT
ABB076_6-12	12	6	6		13867.3	0.06%			1.56	0.70	5	1	2.26	TCLSLT
ABB086_6-12	12	6	6		13748.7	0.30%			1.07	1.68	15	3	2.75	TCLSLT
ABB096_6-12	12	6	6		14622.6	0.10%			0.94	2.00	20	4	2.94	TCLSLT
ABB0012_6-12	12	6	12		24484.2	0.00%			1.30	1.87	12	2	3.18	TCLSLT
ABB0112_6-12	12	6	12		26026.5	0.05%			3.78	4.73	12	2	8.50	TCLSLT
ABB0212_6-12	12	6	12		24573.0	0.18%			8.05	17.75	18	3	25.80	TCLSLT
ABB0312_6-12	12	6	12		26919.9	0.00%			1.30	2.48	12	2	3.79	TCLSLT
ABB0412_6-12	12	6	12		25240.2	0.00%			1.04	0.97	6	1	2.01	TCLSLT
ABB0512_6-12	12	6	12		26668.5	0.08%			2.58	6.67	12	2	9.25	TCLSLT
ABB0612_6-12	12	6	12		23900.8	0.00%			1.66	3.69	18	3	5.35	TCLSLT
ABB0712_6-12	12	6	12		28630.5	0.42%			15.07	11.17	12	2	26.23	TCLSLT
ABB0812_6-12	12	6	12		26509.0	0.39%			3.60	7.22	18	3	10.82	TCLSLT
ABB0912_6-12	12	6	12		27765.5	0.15%			2.58	2.88	12	2	5.46	TCLSLT
ABB0018_6-12	12	6	18		36870.9	0.00%			3.98	4.63	24	3	8.61	TCLSLT
ABB0118_6-12	12	6	18		41709.8	0.09%			5.53	5.50	16	2	11.03	TCLSLT
ABB0218_6-12	12	6	18		37564.3	0.27%			25.68	21.23	16	2	46.91	TCLSLT
ABB0318_6-12	12	6	18		38932.8	0.02%			3.91	6.81	24	3	10.72	TCLSLT
ABB0418_6-12	12	6	18		37300.9	0.00%			2.89	2.02	8	1	4.91	TCLSLT
ABB0518_6-12	12	6	18		41016.8	0.08%			6.75	12.28	24	3	19.03	TCLSLT
ABB0618_6-12	12	6	18		37896.8	0.15%			13.50	15.09	16	2	28.59	TCLSLT
ABB0718_6-12	12	6	18		42284.2	0.39%			22.42	38.28	16	2	60.71	TCLSLT

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Tabela V - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0818_6-12	12	6	18		40336.2	0.59%			44.27	63.06	16	2	107.34	TCLSLT
ABB0918_6-12	12	6	18		41854.0	0.27%			19.34	26.72	16	2	46.06	TCLSLT
ABB006_6-25	25	6	6		25931.1	0.07%			3.33	12.83	10	2	16.16	TCLSLT
ABB016_6-25	25	6	6		25679.0	0.31%			12.32	11.08	15	3	23.40	TCLSLT
ABB026_6-25	25	6	6		26967.3	0.09%			1.28	0.91	5	1	2.19	TCLSLT
ABB036_6-25	25	6	6		27197.5	0.20%			6.65	9.18	10	2	15.83	TCLSLT
ABB046_6-25	25	6	6		28834.9	0.26%			17.43	23.85	15	3	41.28	TCLSLT
ABB056_6-25	25	6	6		26531.5	0.08%			6.41	7.00	10	2	13.41	TCLSLT
ABB066_6-25	25	6	6		25479.1	0.00%			0.76	1.19	10	2	1.95	TCLSLT
ABB076_6-25	25	6	6		28134.5	0.00%			3.66	1.52	10	2	5.18	TCLSLT
ABB086_6-25	25	6	6		26905.0	0.12%			11.02	3.98	5	1	15.00	TCLSLT
ABB096_6-25	25	6	6		26571.9	0.00%			5.49	0.91	5	1	6.40	TCLSLT
ABB0012_6-25	25	6	12		52887.8	0.33%			17.45	29.90	12	2	47.35	TCLSLT
ABB0112_6-25	25	6	12		53114.3	0.33%			34.28	89.18	24	4	123.46	TCLSLT
ABB0212_6-25	25	6	12		54343.4	0.21%			14.30	12.81	12	2	27.11	TCLSLT
ABB0312_6-25	25	6	12		53202.6	0.56%			44.23	123.05	18	3	167.28	TCLSLT
ABB0412_6-25	25	6	12		56467.8	0.28%			45.32	145.58	24	4	190.90	TCLSLT
ABB0512_6-25	25	6	12		52134.3	0.16%			18.54	38.31	18	3	56.85	TCLSLT
ABB0612_6-25	25	6	12		51221.9	0.00%			5.08	4.13	12	2	9.22	TCLSLT
ABB0712_6-25	25	6	12		53139.1	0.20%			26.34	23.21	18	3	49.55	TCLSLT
ABB0812_6-25	25	6	12		51575.8	0.16%			20.65	31.10	18	3	51.75	TCLSLT
ABB0912_6-25	25	6	12		54001.0	0.12%			15.15	22.26	18	3	37.41	TCLSLT
ABB0018_6-25	25	6	18		77135.2	0.33%			63.75	158.84	24	3	222.59	TCLSLT
ABB0118_6-25	25	6	18		79992.3	0.24%			72.92	253.27	32	4	326.20	TCLSLT
ABB0218_6-25	25	6	18		82237.8	0.22%			57.17	58.06	16	2	115.23	TCLSLT
ABB0318_6-25	25	6	18		80898.8	0.55%			80.33	399.40	40	5	479.73	TCLSLT
ABB0418_6-25	25	6	18		85571.9	0.25%			80.26	236.55	24	3	316.82	TCLSLT
ABB0518_6-25	25	6	18		81530.8	0.25%			62.91	226.17	40	5	289.08	TCLSLT
ABB0618_6-25	25	6	18		76578.9	0.04%			17.42	20.87	16	2	38.29	TCLSLT
ABB0718_6-25	25	6	18		78310.5	0.23%			59.62	133.87	24	3	193.50	TCLSLT
ABB0818_6-25	25	6	18		75617.0	0.15%			41.68	54.67	16	2	96.35	TCLSLT
ABB0918_6-25	25	6	18		81836.9	0.15%			54.64	74.70	24	3	129.34	TCLSLT
ABB006_6-50	50	6	6		50846.1	0.09%			13.91	5.60	10	2	19.51	TCLSLT
ABB016_6-50	50	6	6		50952.8	0.06%			17.22	43.78	20	4	61.00	TCLSLT
ABB026_6-50	50	6	6		52534.9	0.12%			17.88	28.62	10	2	46.50	TCLSLT
ABB036_6-50	50	6	6		51950.2	0.11%			8.29	5.60	10	2	13.89	TCLSLT
ABB046_6-50	50	6	6		54439.2	0.23%			28.97	14.63	10	2	43.60	TCLSLT
ABB056_6-50	50	6	6		53109.2	0.12%			16.12	22.77	10	2	38.89	TCLSLT
ABB066_6-50	50	6	6		52430.6	0.15%			22.16	24.55	10	2	46.72	TCLSLT
ABB076_6-50	50	6	6		54130.4	0.00%			2.64	3.53	15	3	6.16	TCLSLT
ABB086_6-50	50	6	6		51243.8	0.09%			20.11	21.97	10	2	42.08	TCLSLT
ABB096_6-50	50	6	6		50901.7	0.05%			11.32	22.94	15	3	34.26	TCLSLT
ABB0012_6-50	50	6	12		102813.0	0.07%			28.78	53.07	18	3	81.85	TCLSLT
ABB0112_6-50	50	6	12		101951.5	0.12%			36.09	84.21	30	5	120.30	TCLSLT
ABB0212_6-50	50	6	12		105766.7	0.19%			48.02	133.99	18	3	182.01	TCLSLT
ABB0312_6-50	50	6	12		103026.7	0.12%			34.56	55.06	18	3	89.62	TCLSLT
ABB0412_6-50	50	6	12		110390.7	0.19%			43.27	123.95	18	3	167.22	TCLSLT
ABB0512_6-50	50	6	12		105951.7	0.14%			28.18	66.81	30	5	94.99	TCLSLT
ABB0612_6-50	50	6	12		102936.0	0.22%			46.42	165.94	24	4	212.36	TCLSLT
ABB0712_6-50	50	6	12		107898.9	0.11%			22.36	32.69	12	2	55.04	TCLSLT
ABB0812_6-50	50	6	12		100302.2	0.11%			23.24	33.42	18	3	56.66	TCLSLT
ABB0912_6-50	50	6	12		102848.7	0.17%			28.06	58.40	24	4	86.47	TCLSLT
ABB0018_6-50	50	6	18		153483.3	0.11%			79.68	271.69	32	4	351.37	TCLSLT
ABB0118_6-50	50	6	18		151594.2	0.10%			57.20	150.53	32	4	207.73	TCLSLT
ABB0218_6-50	50	6	18		155223.7	0.12%			80.35	419.12	48	6	499.48	TCLSLT
ABB0318_6-50	50	6	18		154838.7	0.12%			66.00	246.16	32	4	312.15	TCLSLT
ABB0418_6-50	50	6	18		165804.7	0.18%			80.42	481.16	48	6	561.57	TCLSLT
ABB0518_6-50	50	6	18		156170.4	0.20%			80.55	282.04	32	4	362.59	TCLSLT
ABB0618_6-50	50	6	18		155520.7	0.24%			80.47	400.92	40	5	481.39	TCLSLT
ABB0718_6-50	50	6	18		159485.7	0.08%			64.18	91.22	24	3	155.40	TCLSLT
ABB0818_6-50	50	6	18		151713.0	0.13%			68.94	224.36	32	4	293.30	TCLSLT
ABB0918_6-50	50	6	18		154682.3	0.11%			74.84	187.63	24	3	262.47	TCLSLT

Tabela VI: Resultados por instância ($m/r/n$) - RF&FO dinâmico

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6		13492.3	0.00%			0.17	0.04	5	1	0.21	NCHSHT
NAA016_2-6	6	2	6		10970.8	1.17%			0.13	0.05	5	1	0.18	NCHSHT
NAA026_2-6	6	2	6		14513.2	1.63%			0.12	0.05	5	1	0.17	NCHSHT
NAA036_2-6	6	2	6		15158.0	3.73%			0.09	0.05	5	1	0.14	NCHSHT
NAA046_2-6	6	2	6		15408.5	0.14%			0.14	0.19	10	2	0.33	NCHSHT
NAA056_2-6	6	2	6		16805.7	3.94%			0.19	0.08	5	1	0.28	NCHSHT
NAA066_2-6	6	2	6		15770.2	2.81%			0.19	0.07	5	1	0.26	NCHSHT
NAA076_2-6	6	2	6		16133.3	0.10%			0.14	0.08	5	1	0.21	NCHSHT
NAA086_2-6	6	2	6		12947.8	2.39%			0.09	0.07	10	2	0.17	NCHSHT
NAA096_2-6	6	2	6		12725.7	0.24%			0.15	0.08	10	2	0.23	NCHSHT
NAA0012_2-6	6	2	12		23807.1	0.13%			0.23	1.33	28	5	1.56	NCHSHT
NAA0112_2-6	6	2	12		23401.8	2.10%			0.35	1.50	28	5	1.85	NCHSHT
NAA0212_2-6	6	2	12		26232.2	0.00%			0.23	0.63	22	4	0.87	NCHSHT
NAA0312_2-6	6	2	12		26030.1	0.92%			0.21	0.46	23	4	0.67	NCHSHT
NAA0412_2-6	6	2	12		25687.6	0.87%			0.27	0.44	11	2	0.72	NCHSHT
NAA0512_2-6	6	2	12		30161.7	1.23%			0.31	1.87	39	7	2.19	NCHSHT
NAA0612_2-6	6	2	12		27274.1	1.06%			0.28	0.69	23	4	0.97	NCHSHT
NAA0712_2-6	6	2	12		26541.9	0.36%			0.22	0.40	11	2	0.62	NCHSHT
NAA0812_2-6	6	2	12		21716.8	0.38%			0.18	0.79	35	6	0.98	NCHSHT
NAA0912_2-6	6	2	12		26636.2	1.58%			0.29	0.66	17	3	0.96	NCHSHT
NAA0018_2-6	6	2	18		32367.3	0.25%			0.68	1.86	38	5	2.53	NCHSHT
NAA0118_2-6	6	2	18		33188.0	0.72%			0.85	3.35	38	5	4.20	NCHSHT
NAA0218_2-6	6	2	18		38682.9	0.29%			0.44	2.21	54	7	2.65	NCHSHT
NAA0318_2-6	6	2	18		39144.6	0.26%			0.65	1.20	30	4	1.85	NCHSHT
NAA0418_2-6	6	2	18		36318.5	1.75%			0.62	2.36	38	5	2.98	NCHSHT
NAA0518_2-6	6	2	18		41792.1	0.99%			0.62	1.77	30	4	2.39	NCHSHT
NAA0618_2-6	6	2	18		38129.1	0.38%			0.42	1.07	30	4	1.49	NCHSHT
NAA0718_2-6	6	2	18		38243.9	0.32%			0.46	0.77	22	3	1.24	NCHSHT
NAA0818_2-6	6	2	18		31575.2	1.02%			0.39	1.45	44	6	1.85	NCHSHT
NAA0918_2-6	6	2	18		35563.9	1.15%			0.44	0.79	30	4	1.23	NCHSHT
NAA006_2-12	12	2	6		20950.5	0.25%			0.17	0.12	10	2	0.29	NCHSHT
NAA016_2-12	12	2	6		23669.7	0.01%			0.21	0.05	5	1	0.26	NCHSHT
NAA026_2-12	12	2	6		24727.2	0.00%			0.24	0.23	10	2	0.47	NCHSHT
NAA036_2-12	12	2	6		29108.8	0.51%			0.16	0.06	5	1	0.22	NCHSHT
NAA046_2-12	12	2	6		24836.4	0.16%			0.23	0.05	5	1	0.29	NCHSHT
NAA056_2-12	12	2	6		28616.4	0.35%			0.29	0.08	5	1	0.37	NCHSHT
NAA066_2-12	12	2	6		24960.3	0.38%			0.22	0.15	5	1	0.37	NCHSHT
NAA076_2-12	12	2	6		25224.9	0.89%			0.12	0.09	5	1	0.21	NCHSHT
NAA086_2-12	12	2	6		22960.3	0.32%			0.19	0.17	10	2	0.35	NCHSHT
NAA096_2-12	12	2	6		26830.0	1.22%			0.21	0.10	5	1	0.32	NCHSHT
NAA0012_2-12	12	2	12		40881.1	1.19%			0.43	1.47	28	5	1.91	NCHSHT
NAA0112_2-12	12	2	12		41427.0	0.35%			0.35	0.66	17	3	1.02	NCHSHT
NAA0212_2-12	12	2	12		43305.8	0.68%			0.47	1.84	28	5	2.31	NCHSHT
NAA0312_2-12	12	2	12		52789.5	0.68%			0.42	3.44	45	8	3.87	NCHSHT
NAA0412_2-12	12	2	12		45356.5	1.06%			0.53	2.37	34	6	2.90	NCHSHT
NAA0512_2-12	12	2	12		51579.7	0.35%			0.87	2.81	34	6	3.68	NCHSHT
NAA0612_2-12	12	2	12		45250.5	0.81%			0.44	3.33	39	7	3.78	NCHSHT
NAA0712_2-12	12	2	12		46680.4	0.03%			0.62	2.20	39	7	2.82	NCHSHT
NAA0812_2-12	12	2	12		41588.5	0.15%			0.37	1.33	28	5	1.70	NCHSHT
NAA0912_2-12	12	2	12		49817.0	0.42%			1.36	5.20	34	6	6.56	NCHSHT
NAA0018_2-12	12	2	18		59830.2	0.19%			0.80	2.39	30	4	3.19	NCHSHT
NAA0118_2-12	12	2	18		61478.9	0.23%			1.30	4.37	46	6	5.67	NCHSHT
NAA0218_2-12	12	2	18		64744.6	0.35%			1.18	2.31	22	3	3.49	NCHSHT
NAA0318_2-12	12	2	18		74813.4	0.24%			1.10	12.85	66	9	13.95	NCHSHT
NAA0418_2-12	12	2	18		67486.7	0.72%			2.20	8.46	54	7	10.66	NCHSHT
NAA0518_2-12	12	2	18		73579.7	0.18%			1.82	33.56	60	8	35.38	NCHSHT
NAA0618_2-12	12	2	18		65032.9	0.24%			1.82	4.27	30	4	6.09	NCHSHT
NAA0718_2-12	12	2	18		67496.1	0.27%			0.76	1.98	30	4	2.74	NCHSHT
NAA0818_2-12	12	2	18		64382.1	0.65%			1.25	4.44	38	5	5.69	NCHSHT
NAA0918_2-12	12	2	18		72354.8	0.46%			1.95	8.03	44	6	9.98	NCHSHT
NAA006_2-25	25	2	6		47811.0	0.34%			0.62	0.11	5	1	0.73	NCHSHT
NAA016_2-25	25	2	6		48793.3	0.25%			0.53	0.38	10	2	0.92	NCHSHT
NAA026_2-25	25	2	6		50916.9	0.28%			0.40	0.93	20	4	1.33	NCHSHT
NAA036_2-25	25	2	6		52969.7	0.59%			0.44	0.21	5	1	0.65	NCHSHT

Continua na Próxima Página

Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_2-25	25	2	6		53946.7	0.76%			0.84	1.37	15	3	2.20	NCHSHT
NAA056_2-25	25	2	6		56702.8	0.55%			0.79	0.52	10	2	1.31	NCHSHT
NAA066_2-25	25	2	6		46381.4	0.93%			0.28	0.24	5	1	0.52	NCHSHT
NAA076_2-25	25	2	6		51401.4	0.14%			0.43	1.19	20	4	1.63	NCHSHT
NAA086_2-25	25	2	6		54132.4	0.52%			0.54	0.54	10	2	1.08	NCHSHT
NAA096_2-25	25	2	6		59317.1	0.64%			0.50	0.28	10	2	0.79	NCHSHT
NAA0012_2-25	25	2	12		89049.5	0.67%			2.26	4.86	23	4	7.12	NCHSHT
NAA0112_2-25	25	2	12		94121.6	0.39%			2.22	7.59	23	4	9.82	NCHSHT
NAA0212_2-25	25	2	12		91039.5	0.86%			4.08	15.12	28	5	19.21	NCHSHT
NAA0312_2-25	25	2	12		94514.6	0.32%			2.86	9.63	34	6	12.50	NCHSHT
NAA0412_2-25	25	2	12		93376.2	0.56%			4.13	10.08	28	5	14.21	NCHSHT
NAA0512_2-25	25	2	12		106174.5	0.75%			7.43	37.58	46	8	45.01	NCHSHT
NAA0612_2-25	25	2	12		90071.1	0.34%			1.16	3.83	28	5	5.00	NCHSHT
NAA0712_2-25	25	2	12		96142.7	0.31%			3.39	13.01	34	6	16.40	NCHSHT
NAA0812_2-25	25	2	12		98424.8	0.57%			3.91	17.57	40	7	21.49	NCHSHT
NAA0912_2-25	25	2	12		103511.3	0.45%			3.23	17.74	40	7	20.97	NCHSHT
NAA0018_2-25	25	2	18		129074.6	0.26%			5.38	37.85	60	8	43.23	NCHSHT
NAA0118_2-25	25	2	18		133053.2	0.44%			3.16	9.73	30	4	12.89	NCHSHT
NAA0218_2-25	25	2	18		130656.1	0.69%			11.51	65.03	66	9	76.54	NCHSHT
NAA0318_2-25	25	2	18		142206.8	0.16%			3.42	15.07	44	6	18.49	NCHSHT
NAA0418_2-25	25	2	18		137469.4	0.87%			4.25	26.00	60	8	30.26	NCHSHT
NAA0518_2-25	25	2	18		148721.3	0.35%			17.12	30.38	46	6	47.50	NCHSHT
NAA0618_2-25	25	2	18		126917.6	0.14%			3.41	29.20	82	11	32.61	NCHSHT
NAA0718_2-25	25	2	18		141049.9	0.54%			16.95	87.06	74	10	104.01	NCHSHT
NAA0818_2-25	25	2	18		139444.0	0.33%			6.32	43.48	44	6	49.81	NCHSHT
NAA0918_2-25	25	2	18		148600.8	0.60%			9.09	58.34	52	7	67.43	NCHSHT
NAA006_2-50	50	2	6		94266.9	0.28%			0.65	0.85	10	2	1.49	NCHSHT
NAA016_2-50	50	2	6		98103.0	0.21%			0.49	0.78	15	3	1.27	NCHSHT
NAA026_2-50	50	2	6		94569.5	0.15%			0.74	0.32	5	1	1.06	NCHSHT
NAA036_2-50	50	2	6		102753.1	0.26%			0.68	1.33	15	3	2.01	NCHSHT
NAA046_2-50	50	2	6		106854.9	0.31%			2.52	1.17	10	2	3.69	NCHSHT
NAA056_2-50	50	2	6		104523.3	0.12%			1.32	1.17	15	3	2.49	NCHSHT
NAA066_2-50	50	2	6		94559.0	0.14%			0.73	0.47	10	2	1.20	NCHSHT
NAA076_2-50	50	2	6		101674.7	0.28%			2.40	1.12	10	2	3.52	NCHSHT
NAA086_2-50	50	2	6		99649.8	0.07%			1.52	0.92	15	3	2.44	NCHSHT
NAA096_2-50	50	2	6		103138.8	0.30%			0.79	0.77	10	2	1.55	NCHSHT
NAA0012_2-50	50	2	12		176758.1	0.25%			6.75	21.28	45	8	28.03	NCHSHT
NAA0112_2-50	50	2	12		184490.6	0.20%			2.51	33.57	45	8	36.08	NCHSHT
NAA0212_2-50	50	2	12		176612.9	0.24%			6.59	13.61	29	5	20.20	NCHSHT
NAA0312_2-50	50	2	12		190239.7	0.36%			3.44	37.77	45	8	41.21	NCHSHT
NAA0412_2-50	50	2	12		194880.7	0.45%			12.26	77.33	40	7	89.59	NCHSHT
NAA0512_2-50	50	2	12		192978.1	0.22%			5.46	53.36	51	9	58.82	NCHSHT
NAA0612_2-50	50	2	12		174313.3	0.14%			4.33	41.02	62	11	45.35	NCHSHT
NAA0712_2-50	50	2	12		184488.2	0.33%			7.82	34.91	23	4	42.73	NCHSHT
NAA0812_2-50	50	2	12		179531.7	0.21%			6.78	31.00	34	6	37.78	NCHSHT
NAA0912_2-50	50	2	12		189985.2	0.17%			9.10	61.97	90	16	71.07	NCHSHT
NAA0018_2-50	50	2	18		259255.1	0.10%			7.80	57.03	60	8	64.82	NCHSHT
NAA0118_2-50	50	2	18		268138.0	0.19%			8.59	17.23	44	6	25.82	NCHSHT
NAA0218_2-50	50	2	18		255993.4	0.19%			23.32	84.42	66	9	107.74	NCHSHT
NAA0318_2-50	50	2	18		279157.8	0.15%			15.75	77.25	60	8	93.00	NCHSHT
NAA0418_2-50	50	2	18		283790.3	0.42%			34.01	208.80	60	8	242.81	NCHSHT
NAA0518_2-50	50	2	18		283074.8	0.25%			17.73	47.94	38	5	65.67	NCHSHT
NAA0618_2-50	50	2	18		256155.4	0.16%			13.54	67.27	44	6	80.81	NCHSHT
NAA0718_2-50	50	2	18		268877.9	0.13%			26.50	98.86	52	7	125.36	NCHSHT
NAA0818_2-50	50	2	18		263374.8	0.24%			9.29	72.16	52	7	81.45	NCHSHT
NAA0918_2-50	50	2	18		277550.9	0.24%			19.31	91.41	44	6	110.72	NCHSHT
NAA006_4-6	6	4	6		9647.2	3.85%			0.12	0.09	5	1	0.21	NCHSHT
NAA016_4-6	6	4	6		11294.6	1.73%			0.19	0.11	5	1	0.30	NCHSHT
NAA026_4-6	6	4	6		11626.9	0.00%			0.15	0.05	5	1	0.21	NCHSHT
NAA036_4-6	6	4	6		12353.1	1.66%			0.08	0.08	10	2	0.17	NCHSHT
NAA046_4-6	6	4	6		10204.3	4.52%			0.10	0.05	5	1	0.15	NCHSHT
NAA056_4-6	6	4	6		14835.8	0.00%			0.06	0.04	5	1	0.11	NCHSHT
NAA066_4-6	6	4	6		11845.5	1.74%			0.14	0.08	5	1	0.22	NCHSHT
NAA076_4-6	6	4	6		12938.4	0.00%			0.06	0.03	5	1	0.09	NCHSHT
NAA086_4-6	6	4	6		9737.2	0.61%			0.11	0.10	10	2	0.21	NCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_4-6	6	4	6		14272.2	0.00%			0.12	0.03	5	1	0.15	NCHSHT
NAA0012_4-6	6	4	12		17220.4	0.00%			0.34	1.32	34	6	1.65	NCHSHT
NAA0112_4-6	6	4	12		23616.7	0.58%			0.58	1.19	11	2	1.77	NCHSHT
NAA0212_4-6	6	4	12		21983.1	0.23%			0.31	0.38	11	2	0.69	NCHSHT
NAA0312_4-6	6	4	12		24518.4	0.93%			0.22	0.71	28	5	0.93	NCHSHT
NAA0412_4-6	6	4	12		21812.1	0.20%			0.40	2.53	34	6	2.92	NCHSHT
NAA0512_4-6	6	4	12		29259.6	1.19%			0.19	0.67	23	4	0.86	NCHSHT
NAA0612_4-6	6	4	12		20720.9	0.73%			0.20	0.30	11	2	0.50	NCHSHT
NAA0712_4-6	6	4	12		23657.4	0.67%			0.38	1.13	40	7	1.50	NCHSHT
NAA0812_4-6	6	4	12		18941.1	0.04%			0.22	1.25	34	6	1.47	NCHSHT
NAA0912_4-6	6	4	12		25488.8	0.59%			0.27	0.85	35	6	1.13	NCHSHT
NAA0018_4-6	6	4	18		26597.2	0.05%			0.92	3.87	36	5	4.79	NCHSHT
NAA0118_4-6	6	4	18		31919.7	0.06%			1.09	2.64	36	5	3.73	NCHSHT
NAA0218_4-6	6	4	18		31761.7	0.47%			0.76	3.74	36	5	4.50	NCHSHT
NAA0318_4-6	6	4	18		36778.2	0.14%			0.45	0.88	22	3	1.33	NCHSHT
NAA0418_4-6	6	4	18		33447.5	1.14%			1.50	4.17	52	7	5.66	NCHSHT
NAA0518_4-6	6	4	18		41448.9	0.82%			0.59	0.83	22	3	1.42	NCHSHT
NAA0618_4-6	6	4	18		32149.3	0.00%			0.63	1.16	30	4	1.79	NCHSHT
NAA0718_4-6	6	4	18		35366.2	0.45%			0.63	0.77	22	3	1.40	NCHSHT
NAA0818_4-6	6	4	18		27295.2	0.39%			0.54	0.82	22	3	1.37	NCHSHT
NAA0918_4-6	6	4	18		37417.6	0.36%			0.72	1.68	44	6	2.40	NCHSHT
NAA006_4-12	12	4	6		20004.6	1.35%			0.60	0.25	5	1	0.85	NCHSHT
NAA016_4-12	12	4	6		23313.2	1.93%			0.43	0.16	5	1	0.59	NCHSHT
NAA026_4-12	12	4	6		18460.2	0.06%			0.16	0.12	10	2	0.28	NCHSHT
NAA036_4-12	12	4	6		20397.7	1.08%			0.29	0.27	10	2	0.56	NCHSHT
NAA046_4-12	12	4	6		22944.8	1.58%			0.30	0.28	10	2	0.58	NCHSHT
NAA056_4-12	12	4	6		23920.0	1.36%			0.45	0.11	5	1	0.56	NCHSHT
NAA066_4-12	12	4	6		21024.7	2.17%			0.16	0.15	10	2	0.31	NCHSHT
NAA076_4-12	12	4	6		20969.6	1.04%			0.24	0.11	5	1	0.35	NCHSHT
NAA086_4-12	12	4	6		22331.0	0.00%			0.19	0.20	10	2	0.39	NCHSHT
NAA096_4-12	12	4	6		22032.4	3.09%			0.24	0.10	5	1	0.34	NCHSHT
NAA0012_4-12	12	4	12		35701.2	0.03%			0.59	5.42	56	10	6.01	NCHSHT
NAA0112_4-12	12	4	12		40694.3	0.64%			3.12	5.41	29	5	8.54	NCHSHT
NAA0212_4-12	12	4	12		36906.6	0.19%			0.92	1.76	28	5	2.68	NCHSHT
NAA0312_4-12	12	4	12		39888.8	0.44%			0.69	7.45	39	7	8.13	NCHSHT
NAA0412_4-12	12	4	12		41872.0	0.43%			2.81	3.53	17	3	6.34	NCHSHT
NAA0512_4-12	12	4	12		45480.5	1.43%			0.79	2.30	23	4	3.09	NCHSHT
NAA0612_4-12	12	4	12		38936.6	0.53%			0.51	4.39	63	11	4.90	NCHSHT
NAA0712_4-12	12	4	12		41524.9	0.25%			2.55	2.69	34	6	5.24	NCHSHT
NAA0812_4-12	12	4	12		41392.3	0.48%			0.54	0.82	23	4	1.36	NCHSHT
NAA0912_4-12	12	4	12		43869.2	0.79%			0.67	11.42	39	7	12.09	NCHSHT
NAA0018_4-12	12	4	18		53984.2	0.24%			1.42	12.47	44	6	13.88	NCHSHT
NAA0118_4-12	12	4	18		59319.8	0.47%			6.56	12.19	38	5	18.75	NCHSHT
NAA0218_4-12	12	4	18		53506.2	0.20%			1.53	3.79	36	5	5.32	NCHSHT
NAA0318_4-12	12	4	18		61052.1	0.85%			1.80	13.40	44	6	15.20	NCHSHT
NAA0418_4-12	12	4	18		61995.4	1.21%			7.25	24.16	30	4	31.41	NCHSHT
NAA0518_4-12	12	4	18		65765.2	1.09%			4.14	12.21	38	5	16.35	NCHSHT
NAA0618_4-12	12	4	18		58522.7	0.45%			1.58	4.44	52	7	6.02	NCHSHT
NAA0718_4-12	12	4	18		63783.9	0.59%			9.65	27.49	38	5	37.15	NCHSHT
NAA0818_4-12	12	4	18		62858.5	0.51%			1.41	6.18	58	8	7.60	NCHSHT
NAA0918_4-12	12	4	18		62914.5	0.96%			3.00	5.89	22	3	8.88	NCHSHT
NAA006_4-25	25	4	6		37052.0	0.12%			0.63	0.47	10	2	1.10	NCHSHT
NAA016_4-25	25	4	6		45142.1	0.30%			1.04	0.76	10	2	1.80	NCHSHT
NAA026_4-25	25	4	6		42834.7	1.10%			3.27	2.10	10	2	5.37	NCHSHT
NAA036_4-25	25	4	6		42387.6	0.90%			0.79	0.34	5	1	1.13	NCHSHT
NAA046_4-25	25	4	6		42999.4	0.40%			0.66	0.20	5	1	0.86	NCHSHT
NAA056_4-25	25	4	6		46972.1	0.10%			0.84	0.67	15	3	1.51	NCHSHT
NAA066_4-25	25	4	6		38182.1	1.30%			0.79	1.11	20	4	1.90	NCHSHT
NAA076_4-25	25	4	6		42982.8	0.60%			1.61	0.42	10	2	2.03	NCHSHT
NAA086_4-25	25	4	6		39754.1	0.58%			0.65	0.68	15	3	1.33	NCHSHT
NAA096_4-25	25	4	6		45992.2	1.56%			0.50	0.46	5	1	0.96	NCHSHT
NAA0012_4-25	25	4	12		74702.6	0.28%			3.43	21.84	52	9	25.27	NCHSHT
NAA0112_4-25	25	4	12		82627.8	0.58%			5.61	44.82	52	9	50.43	NCHSHT
NAA0212_4-25	25	4	12		78426.5	0.93%			7.84	60.71	34	6	68.55	NCHSHT
NAA0312_4-25	25	4	12		82917.6	0.30%			3.27	9.86	28	5	13.13	NCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_4-25	25	4	12		83544.5	0.54%			2.23	6.70	34	6	8.93	NCHSHT
NAA0512_4-25	25	4	12		86316.2	0.38%			4.66	53.82	45	8	58.49	NCHSHT
NAA0612_4-25	25	4	12		73495.0	0.19%			2.91	24.50	57	10	27.41	NCHSHT
NAA0712_4-25	25	4	12		83569.1	0.61%			5.75	25.70	23	4	31.45	NCHSHT
NAA0812_4-25	25	4	12		77888.9	0.21%			5.05	43.59	39	7	48.64	NCHSHT
NAA0912_4-25	25	4	12		84401.6	0.35%			4.94	33.63	51	9	38.56	NCHSHT
NAA0018_4-25	25	4	18		108898.1	0.57%			6.81	37.12	30	4	43.93	NCHSHT
NAA0118_4-25	25	4	18		120717.8	0.62%			18.63	86.37	52	7	105.00	NCHSHT
NAA0218_4-25	25	4	18		116942.0	0.79%			22.68	95.89	46	6	118.57	NCHSHT
NAA0318_4-25	25	4	18		121389.5	0.57%			11.32	68.73	66	9	80.05	NCHSHT
NAA0418_4-25	25	4	18		123603.6	0.34%			10.62	58.34	68	9	68.96	NCHSHT
NAA0518_4-25	25	4	18		125353.3	0.50%			13.01	19.28	30	4	32.30	NCHSHT
NAA0618_4-25	25	4	18		110481.7	0.20%			5.97	25.16	52	7	31.12	NCHSHT
NAA0718_4-25	25	4	18		122113.8	0.46%			12.75	49.72	60	8	62.46	NCHSHT
NAA0818_4-25	25	4	18		112387.1	0.41%			15.94	46.86	36	5	62.81	NCHSHT
NAA0918_4-25	25	4	18		124244.2	0.31%			8.43	54.18	66	9	62.61	NCHSHT
NAA006_4-50	50	4	6		81090.8	0.71%			4.02	1.65	10	2	5.66	NCHSHT
NAA016_4-50	50	4	6		84137.2	0.75%			2.24	1.83	15	3	4.07	NCHSHT
NAA026_4-50	50	4	6		85867.8	0.30%			2.45	8.07	15	3	10.52	NCHSHT
NAA036_4-50	50	4	6		86626.9	0.34%			1.54	3.00	10	2	4.54	NCHSHT
NAA046_4-50	50	4	6		92859.2	0.49%			2.10	2.70	15	3	4.80	NCHSHT
NAA056_4-50	50	4	6		87613.6	0.38%			5.15	0.65	5	1	5.80	NCHSHT
NAA066_4-50	50	4	6		79004.9	0.19%			1.41	0.70	10	2	2.11	NCHSHT
NAA076_4-50	50	4	6		82519.4	0.19%			0.99	1.49	5	1	2.48	NCHSHT
NAA086_4-50	50	4	6		82682.5	0.58%			1.39	0.56	5	1	1.94	NCHSHT
NAA096_4-50	50	4	6		93802.4	0.27%			3.10	1.46	10	2	4.56	NCHSHT
NAA0012_4-50	50	4	12		158582.9	0.24%			15.69	63.51	34	6	79.20	NCHSHT
NAA0112_4-50	50	4	12		156461.5	0.10%			18.09	39.78	34	6	57.87	NCHSHT
NAA0212_4-50	50	4	12		157940.3	0.40%			11.44	184.45	97	17	195.89	NCHSHT
NAA0312_4-50	50	4	12		165264.9	0.22%			9.61	44.05	34	6	53.66	NCHSHT
NAA0412_4-50	50	4	12		169688.0	0.37%			22.28	121.97	62	11	144.25	NCHSHT
NAA0512_4-50	50	4	12		163911.0	0.26%			14.53	82.91	51	9	97.44	NCHSHT
NAA0612_4-50	50	4	12		149723.2	0.09%			7.74	16.00	34	6	23.74	NCHSHT
NAA0712_4-50	50	4	12		160898.8	0.41%			17.78	76.60	40	7	94.38	NCHSHT
NAA0812_4-50	50	4	12		156114.7	0.14%			13.36	33.66	51	9	47.02	NCHSHT
NAA0912_4-50	50	4	12		171970.5	0.22%			12.96	62.78	62	11	75.74	NCHSHT
NAA0018_4-50	50	4	18		227339.7	0.24%			18.52	124.53	76	10	143.05	NCHSHT
NAA0118_4-50	50	4	18		231975.5	0.37%			19.64	81.86	46	6	101.50	NCHSHT
NAA0218_4-50	50	4	18		236660.5	0.38%			30.20	102.39	52	7	132.59	NCHSHT
NAA0318_4-50	50	4	18		242330.2	0.25%			19.10	154.36	112	15	173.47	NCHSHT
NAA0418_4-50	50	4	18		251945.1	0.35%			30.81	202.05	74	10	232.86	NCHSHT
NAA0518_4-50	50	4	18		242707.4	0.17%			21.01	94.97	60	8	115.98	NCHSHT
NAA0618_4-50	50	4	18		223504.0	0.20%			14.39	91.10	96	13	105.49	NCHSHT
NAA0718_4-50	50	4	18		239602.6	0.28%			26.99	133.09	52	7	160.08	NCHSHT
NAA0818_4-50	50	4	18		226965.4	0.10%			16.86	45.51	44	6	62.37	NCHSHT
NAA0918_4-50	50	4	18		251080.8	0.30%			10.84	67.01	38	5	77.85	NCHSHT
NAA006_6-6	6	6	6		9324.7	2.78%			0.25	0.12	5	1	0.37	NCHSHT
NAA016_6-6	6	6	6		12121.1	0.00%			0.13	0.05	5	1	0.18	NCHSHT
NAA026_6-6	6	6	6		11161.7	0.00%			0.09	0.05	5	1	0.14	NCHSHT
NAA036_6-6	6	6	6		13620.8	0.00%			0.10	0.05	5	1	0.15	NCHSHT
NAA046_6-6	6	6	6		13390.7	0.29%			0.10	0.13	10	2	0.23	NCHSHT
NAA056_6-6	6	6	6		15889.6	1.60%			0.24	0.17	10	2	0.41	NCHSHT
NAA066_6-6	6	6	6		10962.7	0.00%			0.09	0.06	5	1	0.15	NCHSHT
NAA076_6-6	6	6	6		14371.7	1.98%			0.11	0.06	5	1	0.17	NCHSHT
NAA086_6-6	6	6	6		13977.1	3.76%			0.19	0.10	5	1	0.28	NCHSHT
NAA096_6-6	6	6	6		15763.6	3.89%			0.14	0.17	10	2	0.32	NCHSHT
NAA0012_6-6	6	6	12		19035.1	0.69%			0.59	1.58	28	5	2.17	NCHSHT
NAA0112_6-6	6	6	12		22719.8	0.03%			0.25	1.16	34	6	1.41	NCHSHT
NAA0212_6-6	6	6	12		22994.8	0.21%			0.51	0.89	22	4	1.40	NCHSHT
NAA0312_6-6	6	6	12		26303.6	0.92%			0.23	1.63	28	5	1.86	NCHSHT
NAA0412_6-6	6	6	12		25721.7	0.94%			0.79	2.14	28	5	2.94	NCHSHT
NAA0512_6-6	6	6	12		26942.5	0.98%			0.63	0.62	23	4	1.25	NCHSHT
NAA0612_6-6	6	6	12		22005.3	0.92%			0.74	2.70	17	3	3.44	NCHSHT
NAA0712_6-6	6	6	12		27455.0	0.89%			0.43	2.64	45	8	3.07	NCHSHT
NAA0812_6-6	6	6	12		24994.3	1.24%			0.49	2.38	51	9	2.86	NCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0912_6-6	6	6	12		28060.3	0.84%			0.21	0.60	28	5	0.82	NCHSHT
NAA0018_6-6	6	6	18		28024.6	0.29%			1.23	3.62	44	6	4.85	NCHSHT
NAA0118_6-6	6	6	18		34917.9	0.72%			1.19	1.96	30	4	3.15	NCHSHT
NAA0218_6-6	6	6	18		31419.5	0.14%			0.80	1.16	22	3	1.97	NCHSHT
NAA0318_6-6	6	6	18		36617.1	1.06%			0.71	2.00	30	4	2.71	NCHSHT
NAA0418_6-6	6	6	18		37280.7	0.75%			1.40	3.87	36	5	5.27	NCHSHT
NAA0518_6-6	6	6	18		41595.9	1.13%			1.31	3.45	44	6	4.76	NCHSHT
NAA0618_6-6	6	6	18		32416.2	0.53%			1.14	4.19	52	7	5.32	NCHSHT
NAA0718_6-6	6	6	18		39834.2	0.05%			0.87	3.64	60	8	4.51	NCHSHT
NAA0818_6-6	6	6	18		39594.3	0.51%			1.18	2.48	36	5	3.66	NCHSHT
NAA0918_6-6	6	6	18		42585.2	0.31%			1.34	1.07	22	3	2.41	NCHSHT
NAA006_6-12	12	6	6		20088.7	0.37%			0.45	0.20	5	1	0.65	NCHSHT
NAA016_6-12	12	6	6		20369.3	0.75%			0.37	0.32	5	1	0.70	NCHSHT
NAA026_6-12	12	6	6		18976.6	0.09%			0.41	0.32	10	2	0.73	NCHSHT
NAA036_6-12	12	6	6		20175.8	0.91%			0.39	0.69	20	4	1.08	NCHSHT
NAA046_6-12	12	6	6		18585.3	0.50%			0.32	0.11	5	1	0.42	NCHSHT
NAA056_6-12	12	6	6		20017.2	0.66%			0.39	0.13	5	1	0.52	NCHSHT
NAA066_6-12	12	6	6		18009.5	0.47%			0.31	0.51	10	2	0.82	NCHSHT
NAA076_6-12	12	6	6		23353.7	1.18%			0.66	1.02	15	3	1.68	NCHSHT
NAA086_6-12	12	6	6		20466.2	0.94%			0.44	0.17	5	1	0.61	NCHSHT
NAA096_6-12	12	6	6		23581.1	0.10%			0.33	0.29	10	2	0.62	NCHSHT
NAA0012_6-12	12	6	12		37251.6	0.00%			1.08	3.69	34	6	4.77	NCHSHT
NAA0112_6-12	12	6	12		39478.3	0.47%			1.96	5.14	39	7	7.11	NCHSHT
NAA0212_6-12	12	6	12		36881.2	0.16%			3.36	9.29	51	9	12.65	NCHSHT
NAA0312_6-12	12	6	12		40009.9	0.81%			3.09	14.27	34	6	17.37	NCHSHT
NAA0412_6-12	12	6	12		35563.7	0.34%			1.98	5.44	56	10	7.42	NCHSHT
NAA0512_6-12	12	6	12		41058.1	0.42%			3.48	4.85	23	4	8.33	NCHSHT
NAA0612_6-12	12	6	12		34515.4	0.68%			0.72	3.01	45	8	3.73	NCHSHT
NAA0712_6-12	12	6	12		45602.2	0.66%			5.55	10.79	34	6	16.35	NCHSHT
NAA0812_6-12	12	6	12		38120.8	0.21%			1.60	6.15	34	6	7.75	NCHSHT
NAA0912_6-12	12	6	12		43543.6	0.92%			2.35	5.67	34	6	8.02	NCHSHT
NAA0018_6-12	12	6	18		56173.6	0.83%			3.39	10.32	36	5	13.71	NCHSHT
NAA0118_6-12	12	6	18		60837.6	0.55%			3.82	8.82	52	7	12.64	NCHSHT
NAA0218_6-12	12	6	18		54650.9	0.38%			2.56	17.63	52	7	20.19	NCHSHT
NAA0318_6-12	12	6	18		56918.1	0.31%			2.00	14.65	74	10	16.65	NCHSHT
NAA0418_6-12	12	6	18		52114.4	0.03%			2.21	2.35	22	3	4.57	NCHSHT
NAA0518_6-12	12	6	18		61689.5	0.67%			1.87	8.41	36	5	10.28	NCHSHT
NAA0618_6-12	12	6	18		54127.9	0.55%			1.53	5.57	44	6	7.09	NCHSHT
NAA0718_6-12	12	6	18		66730.1	1.30%			6.82	20.52	36	5	27.34	NCHSHT
NAA0818_6-12	12	6	18		56883.3	1.32%			10.01	21.15	30	4	31.16	NCHSHT
NAA0918_6-12	12	6	18		64653.9	0.46%			4.94	14.31	44	6	19.25	NCHSHT
NAA006_6-25	25	6	6		39076.6	0.33%			3.13	0.67	10	2	3.80	NCHSHT
NAA016_6-25	25	6	6		39680.3	0.67%			2.57	0.43	5	1	3.00	NCHSHT
NAA026_6-25	25	6	6		41500.7	1.03%			0.95	0.74	10	2	1.69	NCHSHT
NAA036_6-25	25	6	6		40402.7	0.22%			1.69	3.79	10	2	5.48	NCHSHT
NAA046_6-25	25	6	6		42405.8	0.40%			2.41	2.27	15	3	4.68	NCHSHT
NAA056_6-25	25	6	6		40230.8	0.81%			1.09	0.37	5	1	1.46	NCHSHT
NAA066_6-25	25	6	6		38525.5	0.24%			1.31	0.78	10	2	2.10	NCHSHT
NAA076_6-25	25	6	6		42582.2	0.62%			0.64	0.36	5	1	1.00	NCHSHT
NAA086_6-25	25	6	6		40423.2	0.97%			2.87	0.53	10	2	3.40	NCHSHT
NAA096_6-25	25	6	6		42130.2	0.99%			1.85	0.87	10	2	2.72	NCHSHT
NAA0012_6-25	25	6	12		76294.8	0.61%			10.97	77.75	74	13	88.72	NCHSHT
NAA0112_6-25	25	6	12		78807.1	0.90%			15.06	54.56	28	5	69.62	NCHSHT
NAA0212_6-25	25	6	12		80000.4	0.96%			6.67	60.10	46	8	66.77	NCHSHT
NAA0312_6-25	25	6	12		77453.5	0.89%			16.47	44.03	35	6	60.50	NCHSHT
NAA0412_6-25	25	6	12		80787.4	1.03%			22.02	70.72	35	6	92.74	NCHSHT
NAA0512_6-25	25	6	12		76372.4	0.63%			8.92	59.93	62	11	68.85	NCHSHT
NAA0612_6-25	25	6	12		73875.0	0.62%			12.26	75.02	57	10	87.28	NCHSHT
NAA0712_6-25	25	6	12		77647.8	0.20%			3.95	16.00	40	7	19.95	NCHSHT
NAA0812_6-25	25	6	12		74862.8	0.64%			12.63	50.68	40	7	63.31	NCHSHT
NAA0912_6-25	25	6	12		82079.3	0.91%			7.21	58.73	46	8	65.95	NCHSHT
NAA0018_6-25	25	6	18		111062.5	0.97%			20.89	75.66	44	6	96.55	NCHSHT
NAA0118_6-25	25	6	18		116928.8	0.71%			14.76	69.63	44	6	84.39	NCHSHT
NAA0218_6-25	25	6	18		120194.3	0.90%			27.34	131.72	60	8	159.06	NCHSHT
NAA0318_6-25	25	6	18		116164.2	0.74%			25.16	56.90	30	4	82.06	NCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_6-25	25	6	18		120109.8	0.65%			23.45	131.59	66	9	155.04	NCHSHT
NAA0518_6-25	25	6	18		117066.7	0.46%			15.12	49.11	52	7	64.23	NCHSHT
NAA0618_6-25	25	6	18		108388.4	0.58%			17.45	123.70	74	10	141.15	NCHSHT
NAA0718_6-25	25	6	18		114714.8	0.50%			17.44	49.75	68	9	67.20	NCHSHT
NAA0818_6-25	25	6	18		108583.2	1.17%			16.82	111.68	60	8	128.50	NCHSHT
NAA0918_6-25	25	6	18		121906.6	0.89%			20.39	200.08	114	15	220.48	NCHSHT
NAA006_6-50	50	6	6		74099.2	0.23%			2.20	1.54	15	3	3.74	NCHSHT
NAA016_6-50	50	6	6		76415.1	0.56%			3.17	2.07	15	3	5.24	NCHSHT
NAA026_6-50	50	6	6		78963.2	0.38%			9.12	3.09	10	2	12.21	NCHSHT
NAA036_6-50	50	6	6		77586.6	0.13%			7.56	2.19	5	1	9.75	NCHSHT
NAA046_6-50	50	6	6		79578.3	0.28%			14.43	8.40	20	4	22.83	NCHSHT
NAA056_6-50	50	6	6		80143.4	0.49%			16.25	4.98	10	2	21.23	NCHSHT
NAA066_6-50	50	6	6		77117.5	0.79%			17.60	17.75	10	2	35.35	NCHSHT
NAA076_6-50	50	6	6		81160.3	0.40%			4.46	9.72	10	2	14.19	NCHSHT
NAA086_6-50	50	6	6		75785.1	0.32%			8.97	2.11	10	2	11.08	NCHSHT
NAA096_6-50	50	6	6		76959.7	0.36%			6.70	1.18	5	1	7.89	NCHSHT
NAA0012_6-50	50	6	12		144535.4	0.12%			14.43	79.54	56	10	93.97	NCHSHT
NAA0112_6-50	50	6	12		147794.5	0.42%			12.46	67.16	34	6	79.62	NCHSHT
NAA0212_6-50	50	6	12		152153.0	0.34%			18.72	122.42	51	9	141.14	NCHSHT
NAA0312_6-50	50	6	12		150924.0	0.37%			15.14	134.91	68	12	150.05	NCHSHT
NAA0412_6-50	50	6	12		157432.7	0.39%			15.13	57.15	40	7	72.28	NCHSHT
NAA0512_6-50	50	6	12		153961.9	0.56%			15.33	121.90	46	8	137.23	NCHSHT
NAA0612_6-50	50	6	12		145903.4	0.48%			15.46	93.07	40	7	108.52	NCHSHT
NAA0712_6-50	50	6	12		156038.9	0.27%			12.59	62.76	57	10	75.36	NCHSHT
NAA0812_6-50	50	6	12		142503.4	0.25%			16.70	50.77	35	6	67.47	NCHSHT
NAA0912_6-50	50	6	12		149460.7	0.21%			14.91	93.26	52	9	108.17	NCHSHT
NAA0018_6-50	50	6	18		214601.2	0.26%			15.79	92.08	52	7	107.88	NCHSHT
NAA0118_6-50	50	6	18		216616.6	0.31%			17.79	142.55	76	10	160.34	NCHSHT
NAA0218_6-50	50	6	18		222121.2	0.33%			37.75	140.08	68	9	177.84	NCHSHT
NAA0318_6-50	50	6	18		224410.8	0.35%			29.82	113.20	52	7	143.02	NCHSHT
NAA0418_6-50	50	6	18		234070.8	0.25%			30.91	144.92	60	8	175.83	NCHSHT
NAA0518_6-50	50	6	18		223661.1	0.40%			28.42	215.99	74	10	244.41	NCHSHT
NAA0618_6-50	50	6	18		217152.8	0.42%			42.90	192.76	60	8	235.65	NCHSHT
NAA0718_6-50	50	6	18		229381.2	0.39%			29.14	127.71	62	8	156.86	NCHSHT
NAA0818_6-50	50	6	18		213196.5	0.24%			23.63	51.81	30	4	75.43	NCHSHT
NAA0918_6-50	50	6	18		223033.6	0.32%			20.70	143.00	82	11	163.70	NCHSHT
NAB006_2-6	6	2	6		14599.9	3.92%			0.17	0.16	10	2	0.32	NCHSLT
NAB016_2-6	6	2	6		11153.9	1.64%			0.15	0.05	5	1	0.20	NCHSLT
NAB026_2-6	6	2	6		15057.4	3.15%			0.12	0.04	5	1	0.16	NCHSLT
NAB036_2-6	6	2	6		15129.6	1.02%			0.08	0.11	10	2	0.19	NCHSLT
NAB046_2-6	6	2	6		16891.4	2.84%			0.15	0.25	10	2	0.40	NCHSLT
NAB056_2-6	6	2	6		16930.2	2.20%			0.16	0.04	5	1	0.19	NCHSLT
NAB066_2-6	6	2	6		15888.8	0.00%			0.12	0.06	5	1	0.18	NCHSLT
NAB076_2-6	6	2	6		16644.2	1.09%			0.12	0.07	5	1	0.19	NCHSLT
NAB086_2-6	6	2	6		13018.1	1.28%			0.07	0.04	5	1	0.12	NCHSLT
NAB096_2-6	6	2	6		12883.1	0.00%			0.14	0.08	10	2	0.22	NCHSLT
NAB0012_2-6	6	2	12		24544.6	1.06%			0.28	1.70	40	7	1.97	NCHSLT
NAB0112_2-6	6	2	12		23456.5	0.56%			0.40	1.27	28	5	1.67	NCHSLT
NAB0212_2-6	6	2	12		27032.6	1.10%			0.26	0.83	28	5	1.08	NCHSLT
NAB0312_2-6	6	2	12		26832.6	0.00%			0.14	0.18	11	2	0.31	NCHSLT
NAB0412_2-6	6	2	12		27459.5	1.99%			0.38	1.13	23	4	1.51	NCHSLT
NAB0512_2-6	6	2	12		31117.9	0.87%			0.31	0.47	17	3	0.78	NCHSLT
NAB0612_2-6	6	2	12		28466.6	1.59%			0.30	0.66	17	3	0.96	NCHSLT
NAB0712_2-6	6	2	12		27263.4	1.26%			0.20	0.38	11	2	0.58	NCHSLT
NAB0812_2-6	6	2	12		22043.0	0.19%			0.19	0.29	17	3	0.48	NCHSLT
NAB0912_2-6	6	2	12		27164.6	0.64%			0.19	0.42	11	2	0.60	NCHSLT
NAB0018_2-6	6	2	18		33661.1	1.63%			0.82	3.85	44	6	4.68	NCHSLT
NAB0118_2-6	6	2	18		33875.8	1.08%			0.74	2.94	44	6	3.68	NCHSLT
NAB0218_2-6	6	2	18		39819.4	1.13%			0.54	0.94	22	3	1.48	NCHSLT
NAB0318_2-6	6	2	18		100000000.0	200.00%			0.05	0.00	0	0	0.05	NCHSLT
NAB0418_2-6	6	2	18		37005.9	0.87%			0.77	2.30	38	5	3.07	NCHSLT
NAB0518_2-6	6	2	18		42522.5	0.27%			0.47	1.07	22	3	1.54	NCHSLT
NAB0618_2-6	6	2	18		38812.3	0.12%			0.52	2.75	60	8	3.27	NCHSLT
NAB0718_2-6	6	2	18		39071.1	0.66%			0.45	1.14	30	4	1.59	NCHSLT
NAB0818_2-6	6	2	18		31833.4	0.71%			0.35	1.23	44	6	1.57	NCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_2-6	6	2	18		36116.6	0.21%			0.42	1.92	36	5	2.34	NCHSLT
NAB006_2-12	12	2	6		21833.2	0.20%			0.21	0.22	10	2	0.43	NCHSLT
NAB016_2-12	12	2	6		24309.6	0.00%			0.37	0.29	10	2	0.66	NCHSLT
NAB026_2-12	12	2	6		25621.5	0.47%			0.28	0.34	10	2	0.62	NCHSLT
NAB036_2-12	12	2	6		29638.0	1.09%			0.29	0.44	20	4	0.72	NCHSLT
NAB046_2-12	12	2	6		25227.2	0.06%			0.25	0.07	5	1	0.32	NCHSLT
NAB056_2-12	12	2	6		29552.7	1.70%			0.26	0.41	10	2	0.67	NCHSLT
NAB066_2-12	12	2	6		25758.4	1.37%			0.19	0.22	10	2	0.41	NCHSLT
NAB076_2-12	12	2	6		25442.6	0.00%			0.21	0.06	5	1	0.27	NCHSLT
NAB086_2-12	12	2	6		23303.5	0.00%			0.16	0.07	5	1	0.23	NCHSLT
NAB096_2-12	12	2	6		27763.0	1.89%			0.28	0.22	5	1	0.50	NCHSLT
NAB0012_2-12	12	2	12		41930.5	1.91%			0.61	1.38	17	3	2.00	NCHSLT
NAB0112_2-12	12	2	12		41918.9	0.75%			0.48	0.64	11	2	1.13	NCHSLT
NAB0212_2-12	12	2	12		44215.4	0.52%			0.57	2.58	23	4	3.15	NCHSLT
NAB0312_2-12	12	2	12		53174.5	0.33%			0.57	1.98	28	5	2.55	NCHSLT
NAB0412_2-12	12	2	12		45400.1	0.69%			0.53	1.90	34	6	2.43	NCHSLT
NAB0512_2-12	12	2	12		52399.4	0.42%			0.94	2.14	28	5	3.08	NCHSLT
NAB0612_2-12	12	2	12		45838.4	0.25%			0.53	3.75	57	10	4.28	NCHSLT
NAB0712_2-12	12	2	12		47667.5	0.26%			0.37	1.30	28	5	1.67	NCHSLT
NAB0812_2-12	12	2	12		42035.1	0.40%			0.40	0.75	17	3	1.15	NCHSLT
NAB0912_2-12	12	2	12		51139.9	1.20%			2.17	10.10	40	7	12.27	NCHSLT
NAB0018_2-12	12	2	18		60967.1	0.26%			1.17	5.60	46	6	6.77	NCHSLT
NAB0118_2-12	12	2	18		62223.7	0.45%			2.13	2.59	22	3	4.72	NCHSLT
NAB0218_2-12	12	2	18		65574.9	0.56%			1.64	6.19	44	6	7.83	NCHSLT
NAB0318_2-12	12	2	18		76263.8	1.27%			0.95	5.11	44	6	6.06	NCHSLT
NAB0418_2-12	12	2	18		67865.4	0.57%			1.51	2.42	30	4	3.92	NCHSLT
NAB0518_2-12	12	2	18		74584.5	0.95%			2.44	20.87	66	9	23.31	NCHSLT
NAB0618_2-12	12	2	18		66407.5	0.73%			1.32	5.12	36	5	6.44	NCHSLT
NAB0718_2-12	12	2	18		68157.0	0.54%			1.29	4.00	44	6	5.29	NCHSLT
NAB0818_2-12	12	2	18		65060.1	0.35%			1.09	6.85	30	4	7.94	NCHSLT
NAB0918_2-12	12	2	18		73577.4	1.22%			5.27	22.79	60	8	28.06	NCHSLT
NAB006_2-25	25	2	6		48547.7	0.36%			0.51	0.38	5	1	0.89	NCHSLT
NAB016_2-25	25	2	6		49903.6	1.40%			0.54	0.45	10	2	0.99	NCHSLT
NAB026_2-25	25	2	6		52325.7	0.52%			0.91	0.47	10	2	1.38	NCHSLT
NAB036_2-25	25	2	6		53934.9	0.45%			0.63	0.34	10	2	0.97	NCHSLT
NAB046_2-25	25	2	6		54998.3	0.66%			0.75	0.71	10	2	1.47	NCHSLT
NAB056_2-25	25	2	6		57778.0	0.63%			0.66	0.41	5	1	1.07	NCHSLT
NAB066_2-25	25	2	6		46782.5	0.53%			0.40	0.49	15	3	0.89	NCHSLT
NAB076_2-25	25	2	6		52289.5	0.15%			0.50	0.64	10	2	1.15	NCHSLT
NAB086_2-25	25	2	6		55474.1	0.86%			0.83	0.68	10	2	1.51	NCHSLT
NAB096_2-25	25	2	6		60498.1	0.14%			1.08	0.36	5	1	1.45	NCHSLT
NAB0012_2-25	25	2	12		89666.7	0.44%			1.53	23.76	57	10	25.30	NCHSLT
NAB0112_2-25	25	2	12		95244.0	0.52%			3.42	17.82	34	6	21.24	NCHSLT
NAB0212_2-25	25	2	12		91842.5	0.48%			1.35	23.98	57	10	25.33	NCHSLT
NAB0312_2-25	25	2	12		95801.3	0.81%			4.28	23.03	51	9	27.31	NCHSLT
NAB0412_2-25	25	2	12		94676.3	0.50%			3.22	7.70	28	5	10.92	NCHSLT
NAB0512_2-25	25	2	12		107625.3	0.85%			9.61	27.26	29	5	36.87	NCHSLT
NAB0612_2-25	25	2	12		90983.0	0.30%			2.42	4.09	28	5	6.51	NCHSLT
NAB0712_2-25	25	2	12		96699.4	0.32%			3.68	20.17	51	9	23.84	NCHSLT
NAB0812_2-25	25	2	12		99307.0	0.48%			4.75	26.24	45	8	30.99	NCHSLT
NAB0912_2-25	25	2	12		104504.4	0.41%			5.79	22.28	57	10	28.07	NCHSLT
NAB0018_2-25	25	2	18		129892.6	0.34%			5.45	33.83	60	8	39.28	NCHSLT
NAB0118_2-25	25	2	18		133693.0	0.39%			6.15	22.02	60	8	28.17	NCHSLT
NAB0218_2-25	25	2	18		132075.5	0.89%			12.08	20.05	22	3	32.13	NCHSLT
NAB0318_2-25	25	2	18		143371.9	0.26%			11.15	58.31	60	8	69.46	NCHSLT
NAB0418_2-25	25	2	18		138428.1	0.68%			6.80	77.05	74	10	83.86	NCHSLT
NAB0518_2-25	25	2	18		150526.5	0.74%			10.88	27.07	44	6	37.96	NCHSLT
NAB0618_2-25	25	2	18		128317.5	0.44%			3.63	14.39	36	5	18.02	NCHSLT
NAB0718_2-25	25	2	18		142630.7	0.65%			12.54	101.04	52	7	113.58	NCHSLT
NAB0818_2-25	25	2	18		140304.9	0.33%			6.39	46.14	68	9	52.53	NCHSLT
NAB0918_2-25	25	2	18		150355.2	0.85%			8.99	58.31	44	6	67.30	NCHSLT
NAB006_2-50	50	2	6		96136.6	0.93%			1.23	3.05	10	2	4.28	NCHSLT
NAB016_2-50	50	2	6		99472.6	0.55%			1.02	1.26	10	2	2.28	NCHSLT
NAB026_2-50	50	2	6		96483.4	0.40%			2.35	1.42	10	2	3.78	NCHSLT
NAB036_2-50	50	2	6		104324.7	0.29%			0.84	0.79	10	2	1.63	NCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_2-50	50	2	6		109719.3	0.49%			2.51	2.89	15	3	5.40	NCHSLT
NAB056_2-50	50	2	6		107368.4	0.23%			1.01	3.67	15	3	4.68	NCHSLT
NAB066_2-50	50	2	6		96487.9	0.10%			0.82	0.39	5	1	1.21	NCHSLT
NAB076_2-50	50	2	6		103603.3	0.28%			1.92	5.54	15	3	7.46	NCHSLT
NAB086_2-50	50	2	6		101387.0	0.36%			1.08	0.50	5	1	1.59	NCHSLT
NAB096_2-50	50	2	6		105213.2	0.25%			0.95	1.82	15	3	2.77	NCHSLT
NAB0012_2-50	50	2	12		178242.4	0.25%			5.72	41.21	40	7	46.93	NCHSLT
NAB0112_2-50	50	2	12		185739.1	0.21%			5.77	15.81	40	7	21.58	NCHSLT
NAB0212_2-50	50	2	12		178607.1	0.24%			9.21	44.78	40	7	53.99	NCHSLT
NAB0312_2-50	50	2	12		191414.3	0.31%			5.79	21.54	46	8	27.33	NCHSLT
NAB0412_2-50	50	2	12		197831.8	0.58%			24.62	102.00	40	7	126.62	NCHSLT
NAB0512_2-50	50	2	12		195178.5	0.31%			7.35	20.01	34	6	27.36	NCHSLT
NAB0612_2-50	50	2	12		175841.1	0.17%			6.97	41.64	63	11	48.61	NCHSLT
NAB0712_2-50	50	2	12		187090.7	0.34%			11.38	63.56	40	7	74.93	NCHSLT
NAB0812_2-50	50	2	12		181421.0	0.33%			14.01	29.06	29	5	43.07	NCHSLT
NAB0912_2-50	50	2	12		192423.3	0.32%			9.33	89.04	40	7	98.37	NCHSLT
NAB0018_2-50	50	2	18		260673.6	0.15%			16.83	45.01	52	7	61.83	NCHSLT
NAB0118_2-50	50	2	18		269273.6	0.20%			13.63	112.53	58	8	126.16	NCHSLT
NAB0218_2-50	50	2	18		258344.9	0.19%			24.81	89.34	52	7	114.14	NCHSLT
NAB0318_2-50	50	2	18		281083.0	0.30%			23.17	173.27	96	13	196.44	NCHSLT
NAB0418_2-50	50	2	18		288109.2	0.54%			47.19	225.79	60	8	272.97	NCHSLT
NAB0518_2-50	50	2	18		285435.0	0.34%			21.75	140.75	60	8	162.50	NCHSLT
NAB0618_2-50	50	2	18		257937.8	0.26%			20.07	108.50	76	10	128.57	NCHSLT
NAB0718_2-50	50	2	18		272295.0	0.55%			28.96	165.97	44	6	194.93	NCHSLT
NAB0818_2-50	50	2	18		264840.1	0.37%			18.31	103.29	60	8	121.60	NCHSLT
NAB0918_2-50	50	2	18		280709.5	0.38%			33.92	143.86	52	7	177.78	NCHSLT
NAB006_4-6	6	4	6		9833.9	1.77%			0.14	0.08	5	1	0.21	NCHSLT
NAB016_4-6	6	4	6		12040.2	0.00%			0.23	0.15	5	1	0.38	NCHSLT
NAB026_4-6	6	4	6		12245.0	1.74%			0.12	0.07	5	1	0.19	NCHSLT
NAB036_4-6	6	4	6		12746.7	1.04%			0.11	0.10	10	2	0.22	NCHSLT
NAB046_4-6	6	4	6		11030.1	2.22%			0.12	0.10	5	1	0.22	NCHSLT
NAB056_4-6	6	4	6		15475.7	0.62%			0.08	0.05	5	1	0.13	NCHSLT
NAB066_4-6	6	4	6		12613.1	1.86%			0.17	0.09	5	1	0.26	NCHSLT
NAB076_4-6	6	4	6		14024.2	0.58%			0.08	0.11	10	2	0.19	NCHSLT
NAB086_4-6	6	4	6		10123.3	1.74%			0.09	0.10	10	2	0.19	NCHSLT
NAB096_4-6	6	4	6		14712.1	0.00%			0.12	0.13	10	2	0.25	NCHSLT
NAB0012_4-6	6	4	12		17882.4	0.01%			0.39	0.55	17	3	0.94	NCHSLT
NAB0112_4-6	6	4	12		25268.2	0.67%			0.66	3.93	34	6	4.59	NCHSLT
NAB0212_4-6	6	4	12		23179.3	0.03%			0.46	3.00	45	8	3.46	NCHSLT
NAB0312_4-6	6	4	12		25665.1	0.24%			0.31	0.52	28	5	0.82	NCHSLT
NAB0412_4-6	6	4	12		24079.8	2.28%			0.47	2.00	28	5	2.47	NCHSLT
NAB0512_4-6	6	4	12		30693.5	1.39%			0.25	0.40	17	3	0.66	NCHSLT
NAB0612_4-6	6	4	12		21966.3	0.19%			0.25	1.67	51	9	1.92	NCHSLT
NAB0712_4-6	6	4	12		24639.1	0.28%			0.37	0.99	34	6	1.36	NCHSLT
NAB0812_4-6	6	4	12		21053.3	0.01%			0.43	1.37	23	4	1.80	NCHSLT
NAB0912_4-6	6	4	12		26158.4	0.95%			0.22	0.82	34	6	1.04	NCHSLT
NAB0018_4-6	6	4	18		27633.2	0.50%			1.02	2.01	22	3	3.04	NCHSLT
NAB0118_4-6	6	4	18		33351.1	0.23%			1.02	2.01	30	4	3.03	NCHSLT
NAB0218_4-6	6	4	18		33452.0	0.41%			1.31	2.68	38	5	3.99	NCHSLT
NAB0318_4-6	6	4	18		39547.4	1.53%			1.00	3.02	36	5	4.02	NCHSLT
NAB0418_4-6	6	4	18		35164.4	0.45%			1.01	6.11	60	8	7.13	NCHSLT
NAB0518_4-6	6	4	18		43375.8	0.79%			0.64	2.68	44	6	3.32	NCHSLT
NAB0618_4-6	6	4	18		34509.1	1.08%			0.70	3.08	52	7	3.78	NCHSLT
NAB0718_4-6	6	4	18		37406.6	0.38%			1.01	2.71	36	5	3.72	NCHSLT
NAB0818_4-6	6	4	18		28291.8	0.87%			0.68	1.42	30	4	2.10	NCHSLT
NAB0918_4-6	6	4	18		38245.0	0.25%			0.71	0.78	22	3	1.49	NCHSLT
NAB006_4-12	12	4	6		20658.5	1.05%			0.41	0.81	15	3	1.23	NCHSLT
NAB016_4-12	12	4	6		24037.9	1.47%			0.99	0.43	5	1	1.41	NCHSLT
NAB026_4-12	12	4	6		18954.2	0.86%			0.24	0.17	10	2	0.41	NCHSLT
NAB036_4-12	12	4	6		20768.7	0.17%			0.25	0.18	10	2	0.42	NCHSLT
NAB046_4-12	12	4	6		23522.7	2.17%			0.43	0.40	10	2	0.83	NCHSLT
NAB056_4-12	12	4	6		24567.4	1.54%			0.23	0.33	10	2	0.56	NCHSLT
NAB066_4-12	12	4	6		21822.3	2.39%			0.16	0.37	10	2	0.53	NCHSLT
NAB076_4-12	12	4	6		21666.0	0.29%			0.48	0.24	5	1	0.73	NCHSLT
NAB086_4-12	12	4	6		22682.9	0.06%			0.24	0.19	10	2	0.43	NCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB096_4-12	12	4	6		22805.1	1.65%			0.72	0.35	10	2	1.07	NCHSLT
NAB0012_4-12	12	4	12		36624.8	0.09%			1.59	14.82	40	7	16.41	NCHSLT
NAB0112_4-12	12	4	12		41872.0	1.30%			1.61	32.32	51	9	33.93	NCHSLT
NAB0212_4-12	12	4	12		37482.4	0.15%			0.87	5.84	28	5	6.70	NCHSLT
NAB0312_4-12	12	4	12		41595.0	1.51%			2.03	10.72	34	6	12.75	NCHSLT
NAB0412_4-12	12	4	12		43012.1	1.18%			1.62	9.64	28	5	11.25	NCHSLT
NAB0512_4-12	12	4	12		46378.3	0.92%			1.09	3.55	34	6	4.64	NCHSLT
NAB0612_4-12	12	4	12		40441.1	0.82%			0.43	4.47	11	2	4.90	NCHSLT
NAB0712_4-12	12	4	12		43327.9	1.56%			9.81	31.14	34	6	40.95	NCHSLT
NAB0812_4-12	12	4	12		41856.7	0.00%			0.54	3.35	45	8	3.89	NCHSLT
NAB0912_4-12	12	4	12		45516.7	1.61%			1.91	55.02	51	9	56.93	NCHSLT
NAB0018_4-12	12	4	18		54771.1	0.54%			1.85	9.35	46	6	11.20	NCHSLT
NAB0118_4-12	12	4	18		61448.3	1.63%			11.29	41.02	30	4	52.32	NCHSLT
NAB0218_4-12	12	4	18		53878.0	0.00%			1.17	2.11	30	4	3.29	NCHSLT
NAB0318_4-12	12	4	18		63364.5	2.02%			5.73	21.24	30	4	26.97	NCHSLT
NAB0418_4-12	12	4	18		63656.5	1.59%			9.22	42.44	30	4	51.66	NCHSLT
NAB0518_4-12	12	4	18		67816.2	1.73%			6.61	28.56	68	9	35.17	NCHSLT
NAB0618_4-12	12	4	18		60027.1	0.76%			2.69	4.16	30	4	6.85	NCHSLT
NAB0718_4-12	12	4	18		66180.8	1.13%			15.98	61.61	52	7	77.58	NCHSLT
NAB0818_4-12	12	4	18		63693.9	0.33%			5.61	26.42	68	9	32.03	NCHSLT
NAB0918_4-12	12	4	18		64539.4	1.44%			12.15	42.20	88	12	54.35	NCHSLT
NAB006_4-25	25	4	6		38101.5	0.87%			1.44	0.81	10	2	2.24	NCHSLT
NAB016_4-25	25	4	6		46428.6	0.76%			0.99	0.35	5	1	1.34	NCHSLT
NAB026_4-25	25	4	6		43690.0	0.42%			2.53	0.38	5	1	2.90	NCHSLT
NAB036_4-25	25	4	6		43572.1	0.66%			5.39	0.42	5	1	5.81	NCHSLT
NAB046_4-25	25	4	6		44404.1	0.32%			1.49	1.50	10	2	2.99	NCHSLT
NAB056_4-25	25	4	6		48260.5	0.40%			1.01	0.26	5	1	1.27	NCHSLT
NAB066_4-25	25	4	6		38930.5	1.26%			0.85	0.66	10	2	1.51	NCHSLT
NAB076_4-25	25	4	6		44151.6	0.86%			2.91	0.62	5	1	3.53	NCHSLT
NAB086_4-25	25	4	6		40507.2	0.19%			1.05	0.32	5	1	1.37	NCHSLT
NAB096_4-25	25	4	6		47006.3	1.45%			2.01	1.32	10	2	3.33	NCHSLT
NAB0012_4-25	25	4	12		75973.0	0.99%			4.44	39.86	28	5	44.30	NCHSLT
NAB0112_4-25	25	4	12		84082.3	0.86%			15.72	79.02	46	8	94.74	NCHSLT
NAB0212_4-25	25	4	12		80218.4	1.29%			21.73	76.24	28	5	97.97	NCHSLT
NAB0312_4-25	25	4	12		83819.8	0.26%			5.77	34.28	40	7	40.05	NCHSLT
NAB0412_4-25	25	4	12		85128.4	1.12%			10.46	57.45	34	6	67.92	NCHSLT
NAB0512_4-25	25	4	12		87746.2	0.54%			13.55	69.00	40	7	82.55	NCHSLT
NAB0612_4-25	25	4	12		74612.2	0.47%			2.69	44.02	57	10	46.71	NCHSLT
NAB0712_4-25	25	4	12		84761.5	0.90%			8.80	43.01	40	7	51.80	NCHSLT
NAB0812_4-25	25	4	12		79204.4	0.57%			7.82	34.65	34	6	42.47	NCHSLT
NAB0912_4-25	25	4	12		85151.1	0.24%			3.99	39.66	57	10	43.65	NCHSLT
NAB0018_4-25	25	4	18		109896.8	0.60%			16.05	59.35	38	5	75.40	NCHSLT
NAB0118_4-25	25	4	18		122496.0	1.08%			33.26	147.85	44	6	181.11	NCHSLT
NAB0218_4-25	25	4	18		118855.7	1.27%			33.60	136.09	36	5	169.68	NCHSLT
NAB0318_4-25	25	4	18		122751.0	0.77%			14.92	51.01	36	5	65.93	NCHSLT
NAB0418_4-25	25	4	18		125589.4	1.07%			18.16	52.50	30	4	70.67	NCHSLT
NAB0518_4-25	25	4	18		127006.3	0.59%			16.14	64.80	44	6	80.94	NCHSLT
NAB0618_4-25	25	4	18		111533.0	0.60%			6.03	48.72	44	6	54.75	NCHSLT
NAB0718_4-25	25	4	18		123489.2	0.72%			16.33	89.34	68	9	105.66	NCHSLT
NAB0818_4-25	25	4	18		113363.1	0.55%			14.33	45.48	30	4	59.82	NCHSLT
NAB0918_4-25	25	4	18		125295.7	0.48%			13.08	163.97	132	18	177.05	NCHSLT
NAB006_4-50	50	4	6		81972.3	0.37%			2.11	3.04	15	3	5.15	NCHSLT
NAB016_4-50	50	4	6		85223.2	0.32%			7.50	1.41	5	1	8.91	NCHSLT
NAB026_4-50	50	4	6		87507.2	0.59%			14.35	4.40	10	2	18.75	NCHSLT
NAB036_4-50	50	4	6		88553.8	0.68%			5.45	3.08	15	3	8.53	NCHSLT
NAB046_4-50	50	4	6		95102.1	0.79%			7.84	22.29	15	3	30.12	NCHSLT
NAB056_4-50	50	4	6		89828.3	0.60%			7.68	3.21	10	2	10.88	NCHSLT
NAB066_4-50	50	4	6		80353.3	0.55%			2.39	1.83	10	2	4.22	NCHSLT
NAB076_4-50	50	4	6		84055.2	0.33%			7.62	4.53	15	3	12.15	NCHSLT
NAB086_4-50	50	4	6		84543.1	0.79%			8.75	4.82	10	2	13.57	NCHSLT
NAB096_4-50	50	4	6		94785.2	0.21%			8.45	3.59	10	2	12.05	NCHSLT
NAB0012_4-50	50	4	12		160400.5	0.41%			23.89	165.38	57	10	189.28	NCHSLT
NAB0112_4-50	50	4	12		158075.8	0.34%			17.09	58.08	40	7	75.16	NCHSLT
NAB0212_4-50	50	4	12		159637.3	0.51%			21.10	121.24	40	7	142.34	NCHSLT
NAB0312_4-50	50	4	12		167193.4	0.54%			15.06	97.66	34	6	112.72	NCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_4-50	50	4	12		172597.3	0.85%			28.44	180.46	58	10	208.90	NCHSLT
NAB0512_4-50	50	4	12		165605.0	0.39%			19.14	144.84	80	14	163.98	NCHSLT
NAB0612_4-50	50	4	12		150883.3	0.29%			11.36	43.86	34	6	55.22	NCHSLT
NAB0712_4-50	50	4	12		163354.3	0.74%			28.44	178.91	68	12	207.35	NCHSLT
NAB0812_4-50	50	4	12		157859.9	0.37%			24.85	92.74	51	9	117.59	NCHSLT
NAB0912_4-50	50	4	12		172957.4	0.25%			14.79	89.59	57	10	104.38	NCHSLT
NAB0018_4-50	50	4	18		229163.0	0.39%			25.85	130.62	60	8	156.47	NCHSLT
NAB0118_4-50	50	4	18		233427.7	0.39%			41.45	152.15	52	7	193.60	NCHSLT
NAB0218_4-50	50	4	18		239194.9	0.51%			52.23	170.56	52	7	222.80	NCHSLT
NAB0318_4-50	50	4	18		244011.6	0.34%			31.65	143.97	60	8	175.61	NCHSLT
NAB0418_4-50	50	4	18		254488.3	0.49%			51.11	239.69	76	10	290.80	NCHSLT
NAB0518_4-50	50	4	18		245236.1	0.51%			37.15	180.51	60	8	217.67	NCHSLT
NAB0618_4-50	50	4	18		224834.3	0.32%			19.41	70.84	52	7	90.26	NCHSLT
NAB0718_4-50	50	4	18		241996.0	0.46%			42.27	306.97	76	10	349.24	NCHSLT
NAB0818_4-50	50	4	18		228943.1	0.45%			35.18	192.48	76	10	227.66	NCHSLT
NAB0918_4-50	50	4	18		252115.2	0.20%			25.98	145.35	60	8	171.34	NCHSLT
NAB006_6-6	6	6	6		9968.3	2.08%			0.32	0.20	5	1	0.52	NCHSLT
NAB016_6-6	6	6	6		13674.2	1.58%			0.15	0.11	5	1	0.26	NCHSLT
NAB026_6-6	6	6	6		12313.0	0.00%			0.13	0.04	5	1	0.18	NCHSLT
NAB036_6-6	6	6	6		14265.2	1.76%			0.08	0.05	5	1	0.14	NCHSLT
NAB046_6-6	6	6	6		14501.9	2.75%			0.23	0.16	5	1	0.39	NCHSLT
NAB056_6-6	6	6	6		17336.7	1.81%			0.15	0.26	15	3	0.40	NCHSLT
NAB066_6-6	6	6	6		12086.6	2.59%			0.23	0.26	10	2	0.49	NCHSLT
NAB076_6-6	6	6	6		15746.1	1.13%			0.16	0.09	5	1	0.26	NCHSLT
NAB086_6-6	6	6	6		15323.2	2.07%			0.17	0.22	10	2	0.39	NCHSLT
NAB096_6-6	6	6	6		16643.4	0.95%			0.14	0.10	5	1	0.24	NCHSLT
NAB0012_6-6	6	6	12		20278.5	0.49%			0.85	2.94	28	5	3.79	NCHSLT
NAB0112_6-6	6	6	12		25327.6	0.22%			0.55	2.45	33	6	3.00	NCHSLT
NAB0212_6-6	6	6	12		24537.9	0.74%			0.39	2.35	44	8	2.74	NCHSLT
NAB0312_6-6	6	6	12		27541.5	0.19%			0.23	0.48	17	3	0.72	NCHSLT
NAB0412_6-6	6	6	12		27344.1	0.13%			0.53	1.46	29	5	1.98	NCHSLT
NAB0512_6-6	6	6	12		29799.8	0.80%			1.02	2.35	51	9	3.37	NCHSLT
NAB0612_6-6	6	6	12		24129.2	1.38%			0.77	1.35	17	3	2.13	NCHSLT
NAB0712_6-6	6	6	12		29624.2	1.81%			0.53	2.24	28	5	2.77	NCHSLT
NAB0812_6-6	6	6	12		27346.2	0.68%			0.70	2.19	40	7	2.89	NCHSLT
NAB0912_6-6	6	6	12		30545.9	0.23%			0.22	0.68	28	5	0.90	NCHSLT
NAB0018_6-6	6	6	18		29864.9	0.96%			1.60	5.98	52	7	7.58	NCHSLT
NAB0118_6-6	6	6	18		100000000.0	200.00%			0.08	0.00	0	0	0.08	NCHSLT
NAB0218_6-6	6	6	18		33264.9	0.68%			0.83	2.10	36	5	2.94	NCHSLT
NAB0318_6-6	6	6	18		39083.3	0.47%			1.38	1.42	30	4	2.80	NCHSLT
NAB0418_6-6	6	6	18		39722.2	0.01%			2.87	4.83	44	6	7.71	NCHSLT
NAB0518_6-6	6	6	18		45735.8	2.18%			4.95	8.88	28	4	13.83	NCHSLT
NAB0618_6-6	6	6	18		34318.0	0.30%			1.25	5.66	58	8	6.90	NCHSLT
NAB0718_6-6	6	6	18		42895.6	0.48%			1.35	1.38	22	3	2.74	NCHSLT
NAB0818_6-6	6	6	18		44451.4	2.66%			1.91	6.92	22	3	8.83	NCHSLT
NAB0918_6-6	6	6	18		47050.9	0.11%			6.12	1.66	22	3	7.78	NCHSLT
NAB006_6-12	12	6	6		20894.7	1.13%			0.57	0.76	15	3	1.34	NCHSLT
NAB016_6-12	12	6	6		21518.1	1.58%			0.81	0.59	10	2	1.39	NCHSLT
NAB026_6-12	12	6	6		20018.6	0.31%			0.40	0.15	5	1	0.56	NCHSLT
NAB036_6-12	12	6	6		20967.8	0.62%			0.41	0.13	5	1	0.53	NCHSLT
NAB046_6-12	12	6	6		19159.9	0.54%			0.30	0.29	10	2	0.59	NCHSLT
NAB056_6-12	12	6	6		20742.0	1.04%			0.32	0.28	10	2	0.60	NCHSLT
NAB066_6-12	12	6	6		18575.3	0.27%			0.35	0.19	5	1	0.54	NCHSLT
NAB076_6-12	12	6	6		24491.6	0.74%			1.31	0.38	5	1	1.69	NCHSLT
NAB086_6-12	12	6	6		21317.6	1.10%			0.46	0.36	10	2	0.83	NCHSLT
NAB096_6-12	12	6	6		24556.2	0.58%			0.33	0.27	10	2	0.60	NCHSLT
NAB0012_6-12	12	6	12		38431.5	0.66%			1.39	7.63	45	8	9.02	NCHSLT
NAB0112_6-12	12	6	12		40885.8	0.46%			1.90	11.61	45	8	13.50	NCHSLT
NAB0212_6-12	12	6	12		38914.5	1.13%			9.32	63.04	51	9	72.36	NCHSLT
NAB0312_6-12	12	6	12		41338.7	1.05%			1.73	16.08	28	5	17.81	NCHSLT
NAB0412_6-12	12	6	12		36642.4	0.08%			4.37	12.58	51	9	16.95	NCHSLT
NAB0512_6-12	12	6	12		42673.5	0.22%			1.71	22.10	63	11	23.81	NCHSLT
NAB0612_6-12	12	6	12		35128.2	0.09%			0.77	2.12	23	4	2.89	NCHSLT
NAB0712_6-12	12	6	12		48651.3	1.81%			6.94	18.51	17	3	25.45	NCHSLT
NAB0812_6-12	12	6	12		40576.5	2.10%			3.45	18.27	28	5	21.72	NCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_6-12	12	6	12		44752.6	0.42%			1.53	16.38	45	8	17.91	NCHSLT
NAB0018_6-12	12	6	18		57577.0	0.81%			4.88	17.60	52	7	22.48	NCHSLT
NAB0118_6-12	12	6	18		62919.7	0.74%			7.58	14.82	68	9	22.40	NCHSLT
NAB0218_6-12	12	6	18		56860.6	1.09%			12.33	62.86	74	10	75.20	NCHSLT
NAB0318_6-12	12	6	18		58802.1	0.86%			6.12	8.40	22	3	14.52	NCHSLT
NAB0418_6-12	12	6	18		53501.0	0.67%			2.15	6.52	22	3	8.67	NCHSLT
NAB0518_6-12	12	6	18		63896.6	0.90%			8.13	15.47	84	11	23.59	NCHSLT
NAB0618_6-12	12	6	18		55317.1	0.91%			4.13	22.67	44	6	26.80	NCHSLT
NAB0718_6-12	12	6	18		70267.7	1.45%			16.55	72.22	44	6	88.78	NCHSLT
NAB0818_6-12	12	6	18		59568.0	1.79%			9.45	14.11	38	5	23.56	NCHSLT
NAB0918_6-12	12	6	18		66690.2	0.89%			8.35	29.85	52	7	38.19	NCHSLT
NAB006_6-25	25	6	6		40264.1	0.40%			5.68	0.71	5	1	6.39	NCHSLT
NAB016_6-25	25	6	6		40878.6	1.56%			4.66	6.05	15	3	10.71	NCHSLT
NAB026_6-25	25	6	6		42478.3	0.77%			5.09	1.25	10	2	6.33	NCHSLT
NAB036_6-25	25	6	6		41543.7	0.72%			1.93	1.86	10	2	3.80	NCHSLT
NAB046_6-25	25	6	6		43766.0	0.61%			14.16	4.07	15	3	18.23	NCHSLT
NAB056_6-25	25	6	6		41292.1	1.02%			1.89	1.78	10	2	3.67	NCHSLT
NAB066_6-25	25	6	6		39859.6	0.74%			3.58	1.33	5	1	4.91	NCHSLT
NAB076_6-25	25	6	6		43571.3	0.68%			2.07	1.85	15	3	3.92	NCHSLT
NAB086_6-25	25	6	6		41749.1	0.87%			3.67	1.11	10	2	4.77	NCHSLT
NAB096_6-25	25	6	6		43627.5	1.73%			4.07	1.71	10	2	5.79	NCHSLT
NAB0012_6-25	25	6	12		78332.7	1.47%			18.12	66.50	34	6	84.62	NCHSLT
NAB0112_6-25	25	6	12		80841.9	1.33%			25.24	178.06	74	13	203.29	NCHSLT
NAB0212_6-25	25	6	12		81190.7	1.03%			14.79	68.49	40	7	83.28	NCHSLT
NAB0312_6-25	25	6	12		79097.8	1.41%			18.79	100.91	34	6	119.70	NCHSLT
NAB0412_6-25	25	6	12		82365.6	1.31%			14.65	104.68	40	7	119.33	NCHSLT
NAB0512_6-25	25	6	12		78070.0	1.22%			11.98	87.82	46	8	99.79	NCHSLT
NAB0612_6-25	25	6	12		75606.4	1.11%			14.48	149.60	56	10	164.08	NCHSLT
NAB0712_6-25	25	6	12		79053.1	0.90%			6.84	55.66	68	12	62.50	NCHSLT
NAB0812_6-25	25	6	12		77231.3	1.54%			13.56	56.53	28	5	70.09	NCHSLT
NAB0912_6-25	25	6	12		83980.2	1.30%			15.66	83.79	40	7	99.45	NCHSLT
NAB0018_6-25	25	6	18		113201.0	0.96%			33.44	98.96	44	6	132.41	NCHSLT
NAB0118_6-25	25	6	18		119013.6	1.01%			31.43	85.62	38	5	117.05	NCHSLT
NAB0218_6-25	25	6	18		121855.8	0.99%			37.73	203.61	76	10	241.35	NCHSLT
NAB0318_6-25	25	6	18		118625.3	1.41%			41.89	255.41	60	8	297.30	NCHSLT
NAB0418_6-25	25	6	18		122198.6	1.05%			35.82	177.61	52	7	213.43	NCHSLT
NAB0518_6-25	25	6	18		119286.6	1.11%			29.34	44.23	22	3	73.56	NCHSLT
NAB0618_6-25	25	6	18		110836.3	1.23%			30.50	67.66	30	4	98.15	NCHSLT
NAB0718_6-25	25	6	18		116422.1	0.91%			27.80	55.43	38	5	83.24	NCHSLT
NAB0818_6-25	25	6	18		111055.9	1.47%			30.04	129.09	60	8	159.13	NCHSLT
NAB0918_6-25	25	6	18		124391.3	1.26%			35.17	245.89	90	12	281.06	NCHSLT
NAB006_6-50	50	6	6		75708.4	0.71%			8.57	2.58	10	2	11.15	NCHSLT
NAB016_6-50	50	6	6		78442.0	0.70%			13.70	16.37	20	4	30.07	NCHSLT
NAB026_6-50	50	6	6		81135.7	0.79%			23.67	47.79	15	3	71.46	NCHSLT
NAB036_6-50	50	6	6		79193.8	0.55%			9.30	2.10	10	2	11.40	NCHSLT
NAB046_6-50	50	6	6		82050.0	1.01%			19.59	17.98	10	2	37.57	NCHSLT
NAB056_6-50	50	6	6		82661.8	0.83%			22.02	24.44	15	3	46.47	NCHSLT
NAB066_6-50	50	6	6		79244.4	0.90%			31.58	91.55	25	5	123.13	NCHSLT
NAB076_6-50	50	6	6		82709.0	0.81%			11.81	17.43	15	3	29.24	NCHSLT
NAB086_6-50	50	6	6		77749.0	0.53%			6.87	17.15	15	3	24.03	NCHSLT
NAB096_6-50	50	6	6		79092.2	1.01%			9.64	22.03	10	2	31.67	NCHSLT
NAB0012_6-50	50	6	12		146767.3	0.57%			26.03	181.87	63	11	207.90	NCHSLT
NAB0112_6-50	50	6	12		149563.7	0.49%			19.56	123.23	45	8	142.80	NCHSLT
NAB0212_6-50	50	6	12		154499.2	0.83%			33.05	490.51	121	21	523.56	NCHSLT
NAB0312_6-50	50	6	12		152804.4	0.62%			27.30	229.84	86	15	257.14	NCHSLT
NAB0412_6-50	50	6	12		159851.4	0.70%			30.74	206.60	63	11	237.34	NCHSLT
NAB0512_6-50	50	6	12		157404.3	0.71%			26.91	217.36	62	11	244.28	NCHSLT
NAB0612_6-50	50	6	12		148637.5	0.79%			41.10	238.92	52	9	280.02	NCHSLT
NAB0712_6-50	50	6	12		157305.0	0.33%			24.16	191.46	92	16	215.62	NCHSLT
NAB0812_6-50	50	6	12		144340.9	0.53%			23.74	138.90	68	12	162.64	NCHSLT
NAB0912_6-50	50	6	12		151940.2	0.57%			20.66	179.61	57	10	200.27	NCHSLT
NAB0018_6-50	50	6	18		216743.3	0.45%			42.49	159.99	52	7	202.48	NCHSLT
NAB0118_6-50	50	6	18		219626.6	0.61%			35.15	190.78	66	9	225.93	NCHSLT
NAB0218_6-50	50	6	18		224697.8	0.50%			53.53	401.79	96	13	455.33	NCHSLT
NAB0318_6-50	50	6	18		226719.1	0.52%			51.70	120.99	38	5	172.69	NCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_6-50	50	6	18		237395.9	0.68%			65.68	243.00	46	6	308.68	NCHSLT
NAB0518_6-50	50	6	18		226599.6	0.60%			50.95	165.48	52	7	216.43	NCHSLT
NAB0618_6-50	50	6	18		220993.2	0.91%			71.45	528.58	63	9	600.03	NCHSLT
NAB0718_6-50	50	6	18		231367.0	0.65%			53.40	242.34	60	8	295.74	NCHSLT
NAB0818_6-50	50	6	18		215699.3	0.47%			34.69	232.31	74	10	266.99	NCHSLT
NAB0918_6-50	50	6	18		225242.1	0.65%			45.51	297.80	60	8	343.31	NCHSLT
NBA006_2-6	6	2	6		8039.7	0.00%			0.11	0.06	5	1	0.17	NCLSHT
NBA016_2-6	6	2	6		5918.6	0.00%			0.05	0.06	10	2	0.11	NCLSHT
NBA026_2-6	6	2	6		6899.6	0.00%			0.07	0.05	5	1	0.13	NCLSHT
NBA036_2-6	6	2	6		7687.7	0.00%			0.13	0.12	10	2	0.25	NCLSHT
NBA046_2-6	6	2	6		7762.1	0.33%			0.14	0.08	5	1	0.22	NCLSHT
NBA056_2-6	6	2	6		9352.7	0.12%			0.06	0.09	10	2	0.15	NCLSHT
NBA066_2-6	6	2	6		8007.8	0.13%			0.10	0.05	5	1	0.16	NCLSHT
NBA076_2-6	6	2	6		9021.5	0.00%			0.08	0.06	5	1	0.14	NCLSHT
NBA086_2-6	6	2	6		8169.4	0.00%			0.11	0.24	15	3	0.35	NCLSHT
NBA096_2-6	6	2	6		7089.9	0.01%			0.06	0.04	5	1	0.10	NCLSHT
NBA0012_2-6	6	2	12		15351.3	0.00%			0.26	0.71	17	3	0.96	NCLSHT
NBA0112_2-6	6	2	12		13303.8	0.00%			0.23	0.65	28	5	0.89	NCLSHT
NBA0212_2-6	6	2	12		14505.0	0.00%			0.12	0.23	17	3	0.35	NCLSHT
NBA0312_2-6	6	2	12		14515.2	0.00%			0.16	0.65	22	4	0.80	NCLSHT
NBA0412_2-6	6	2	12		13508.1	0.19%			0.31	1.00	17	3	1.31	NCLSHT
NBA0512_2-6	6	2	12		17237.2	0.00%			0.17	0.33	17	3	0.50	NCLSHT
NBA0612_2-6	6	2	12		14782.5	0.08%			0.09	0.25	17	3	0.35	NCLSHT
NBA0712_2-6	6	2	12		16542.1	0.00%			0.25	0.73	17	3	0.99	NCLSHT
NBA0812_2-6	6	2	12		14100.3	0.00%			0.21	0.92	28	5	1.13	NCLSHT
NBA0912_2-6	6	2	12		16059.0	0.01%			0.14	0.29	17	3	0.42	NCLSHT
NBA0018_2-6	6	2	18		21454.7	0.00%			0.66	0.93	14	2	1.59	NCLSHT
NBA0118_2-6	6	2	18		20051.5	0.00%			0.32	0.48	22	3	0.80	NCLSHT
NBA0218_2-6	6	2	18		22230.0	0.00%			0.48	0.85	22	3	1.33	NCLSHT
NBA0318_2-6	6	2	18		22932.5	0.03%			0.45	0.54	14	2	0.99	NCLSHT
NBA0418_2-6	6	2	18		19869.9	0.09%			0.73	2.06	30	4	2.80	NCLSHT
NBA0518_2-6	6	2	18		24870.3	0.00%			0.32	0.57	22	3	0.90	NCLSHT
NBA0618_2-6	6	2	18		22620.7	0.00%			0.44	1.03	30	4	1.47	NCLSHT
NBA0718_2-6	6	2	18		24165.8	0.00%			0.68	1.62	22	3	2.30	NCLSHT
NBA0818_2-6	6	2	18		20728.0	0.00%			0.38	1.20	36	5	1.58	NCLSHT
NBA0918_2-6	6	2	18		22402.4	0.00%			0.36	0.62	22	3	0.98	NCLSHT
NBA006_2-12	12	2	6		12627.3	0.01%			0.09	0.10	10	2	0.19	NCLSHT
NBA016_2-12	12	2	6		13857.1	0.00%			0.10	0.09	5	1	0.20	NCLSHT
NBA026_2-12	12	2	6		14009.1	0.18%			0.23	0.38	15	3	0.61	NCLSHT
NBA036_2-12	12	2	6		16299.4	0.00%			0.08	0.14	10	2	0.22	NCLSHT
NBA046_2-12	12	2	6		14109.6	0.00%			0.14	0.07	5	1	0.20	NCLSHT
NBA056_2-12	12	2	6		16465.6	0.05%			0.14	0.13	10	2	0.26	NCLSHT
NBA066_2-12	12	2	6		13727.3	0.00%			0.11	0.13	10	2	0.24	NCLSHT
NBA076_2-12	12	2	6		15355.7	0.00%			0.11	0.05	5	1	0.16	NCLSHT
NBA086_2-12	12	2	6		12750.2	0.00%			0.13	0.15	10	2	0.27	NCLSHT
NBA096_2-12	12	2	6		15822.6	0.00%			0.27	0.43	10	2	0.70	NCLSHT
NBA0012_2-12	12	2	12		25999.4	0.00%			0.21	0.71	28	5	0.92	NCLSHT
NBA0112_2-12	12	2	12		27384.7	0.00%			0.24	0.47	17	3	0.71	NCLSHT
NBA0212_2-12	12	2	12		26962.3	0.11%			0.43	2.82	40	7	3.25	NCLSHT
NBA0312_2-12	12	2	12		31645.2	0.00%			0.28	1.10	28	5	1.38	NCLSHT
NBA0412_2-12	12	2	12		28149.1	0.00%			0.28	0.94	28	5	1.22	NCLSHT
NBA0512_2-12	12	2	12		31963.5	0.00%			0.31	0.79	22	4	1.10	NCLSHT
NBA0612_2-12	12	2	12		27169.2	0.13%			0.27	1.00	28	5	1.27	NCLSHT
NBA0712_2-12	12	2	12		30159.8	0.00%			0.25	0.37	17	3	0.62	NCLSHT
NBA0812_2-12	12	2	12		26608.5	0.05%			0.39	0.71	17	3	1.10	NCLSHT
NBA0912_2-12	12	2	12		30770.6	0.04%			0.70	4.13	23	4	4.83	NCLSHT
NBA0018_2-12	12	2	18		39251.5	0.00%			0.47	0.53	14	2	1.01	NCLSHT
NBA0118_2-12	12	2	18		40277.5	0.04%			0.77	2.26	36	5	3.03	NCLSHT
NBA0218_2-12	12	2	18		41233.6	0.04%			1.05	4.87	36	5	5.92	NCLSHT
NBA0318_2-12	12	2	18		46065.0	0.00%			0.67	1.42	22	3	2.09	NCLSHT
NBA0418_2-12	12	2	18		44030.3	0.00%			0.93	1.74	22	3	2.67	NCLSHT
NBA0518_2-12	12	2	18		47179.1	0.00%			0.76	2.06	30	4	2.82	NCLSHT
NBA0618_2-12	12	2	18		40461.6	0.02%			0.61	2.08	36	5	2.68	NCLSHT
NBA0718_2-12	12	2	18		45374.1	0.00%			0.58	1.11	22	3	1.69	NCLSHT
NBA0818_2-12	12	2	18		41137.7	0.04%			0.89	4.02	36	5	4.91	NCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_2-12	12	2	18		46895.1	0.04%			1.63	9.40	44	6	11.03	NCLSHT
NBA006_2-25	25	2	6		29157.3	0.12%			0.17	0.25	10	2	0.42	NCLSHT
NBA016_2-25	25	2	6		29814.3	0.09%			0.19	0.50	15	3	0.69	NCLSHT
NBA026_2-25	25	2	6		28299.5	0.03%			0.37	0.43	10	2	0.80	NCLSHT
NBA036_2-25	25	2	6		30095.2	0.06%			0.28	0.28	10	2	0.56	NCLSHT
NBA046_2-25	25	2	6		31270.2	0.01%			0.37	0.34	10	2	0.71	NCLSHT
NBA056_2-25	25	2	6		31270.5	0.04%			0.42	0.57	10	2	0.99	NCLSHT
NBA066_2-25	25	2	6		27868.8	0.00%			0.16	0.25	15	3	0.41	NCLSHT
NBA076_2-25	25	2	6		31187.6	0.07%			0.42	0.24	10	2	0.66	NCLSHT
NBA086_2-25	25	2	6		31888.7	0.03%			0.46	0.63	15	3	1.09	NCLSHT
NBA096_2-25	25	2	6		32911.6	0.01%			0.30	0.20	5	1	0.50	NCLSHT
NBA0012_2-25	25	2	12		58092.1	0.00%			0.39	1.35	34	6	1.74	NCLSHT
NBA0112_2-25	25	2	12		60778.0	0.05%			0.43	1.75	28	5	2.18	NCLSHT
NBA0212_2-25	25	2	12		55997.3	0.03%			0.85	5.97	45	8	6.82	NCLSHT
NBA0312_2-25	25	2	12		59032.2	0.00%			0.65	2.27	40	7	2.92	NCLSHT
NBA0412_2-25	25	2	12		59453.6	0.03%			1.13	2.86	40	7	3.98	NCLSHT
NBA0512_2-25	25	2	12		64688.7	0.06%			0.65	3.26	51	9	3.91	NCLSHT
NBA0612_2-25	25	2	12		57093.1	0.00%			0.31	0.71	17	3	1.02	NCLSHT
NBA0712_2-25	25	2	12		62603.9	0.02%			0.77	3.22	34	6	3.99	NCLSHT
NBA0812_2-25	25	2	12		62493.4	0.05%			1.26	3.83	29	5	5.09	NCLSHT
NBA0912_2-25	25	2	12		63796.2	0.03%			0.46	1.47	28	5	1.93	NCLSHT
NBA0018_2-25	25	2	18		86982.9	0.01%			0.70	1.24	22	3	1.94	NCLSHT
NBA0118_2-25	25	2	18		88423.4	0.00%			1.36	2.83	36	5	4.19	NCLSHT
NBA0218_2-25	25	2	18		82858.3	0.00%			2.53	6.85	44	6	9.39	NCLSHT
NBA0318_2-25	25	2	18		91109.3	0.00%			1.37	5.28	60	8	6.65	NCLSHT
NBA0418_2-25	25	2	18		90277.8	0.01%			2.25	6.52	36	5	8.77	NCLSHT
NBA0518_2-25	25	2	18		94612.7	0.01%			3.92	5.18	30	4	9.11	NCLSHT
NBA0618_2-25	25	2	18		83490.6	0.04%			0.72	1.22	22	3	1.94	NCLSHT
NBA0718_2-25	25	2	18		91875.8	0.00%			2.07	5.59	44	6	7.66	NCLSHT
NBA0818_2-25	25	2	18		91151.7	0.06%			2.06	7.14	22	3	9.21	NCLSHT
NBA0918_2-25	25	2	18		92803.9	0.00%			1.57	3.88	36	5	5.45	NCLSHT
NBA006_2-50	50	2	6		58729.3	0.04%			0.38	0.34	10	2	0.72	NCLSHT
NBA016_2-50	50	2	6		60213.7	0.01%			0.26	0.37	10	2	0.63	NCLSHT
NBA026_2-50	50	2	6		55914.1	0.12%			0.61	0.71	10	2	1.32	NCLSHT
NBA036_2-50	50	2	6		59102.9	0.07%			0.43	0.60	10	2	1.02	NCLSHT
NBA046_2-50	50	2	6		60553.1	0.03%			0.69	0.67	10	2	1.36	NCLSHT
NBA056_2-50	50	2	6		59123.4	0.01%			0.58	0.51	10	2	1.09	NCLSHT
NBA066_2-50	50	2	6		55808.0	0.01%			0.34	0.41	10	2	0.75	NCLSHT
NBA076_2-50	50	2	6		58735.5	0.00%			0.64	0.43	10	2	1.07	NCLSHT
NBA086_2-50	50	2	6		59800.6	0.04%			0.52	0.73	10	2	1.26	NCLSHT
NBA096_2-50	50	2	6		60443.4	0.01%			0.52	0.45	10	2	0.97	NCLSHT
NBA0012_2-50	50	2	12		117259.2	0.00%			0.55	1.85	28	5	2.40	NCLSHT
NBA0112_2-50	50	2	12		119752.1	0.02%			0.95	2.49	28	5	3.44	NCLSHT
NBA0212_2-50	50	2	12		113771.1	0.00%			0.97	6.20	45	8	7.17	NCLSHT
NBA0312_2-50	50	2	12		119699.0	0.00%			1.49	3.64	34	6	5.13	NCLSHT
NBA0412_2-50	50	2	12		121771.6	0.01%			1.37	4.71	34	6	6.08	NCLSHT
NBA0512_2-50	50	2	12		119052.6	0.01%			1.33	3.61	34	6	4.94	NCLSHT
NBA0612_2-50	50	2	12		113501.3	0.00%			0.77	2.13	28	5	2.90	NCLSHT
NBA0712_2-50	50	2	12		114522.6	0.03%			1.03	4.80	39	7	5.84	NCLSHT
NBA0812_2-50	50	2	12		115043.6	0.01%			1.29	7.45	45	8	8.74	NCLSHT
NBA0912_2-50	50	2	12		122212.4	0.01%			0.85	2.34	28	5	3.20	NCLSHT
NBA0018_2-50	50	2	18		175706.9	0.00%			2.08	3.48	30	4	5.56	NCLSHT
NBA0118_2-50	50	2	18		178653.5	0.00%			1.38	5.35	44	6	6.73	NCLSHT
NBA0218_2-50	50	2	18		169402.7	0.01%			5.52	10.89	50	7	16.41	NCLSHT
NBA0318_2-50	50	2	18		180855.1	0.01%			1.49	6.65	44	6	8.14	NCLSHT
NBA0418_2-50	50	2	18		181165.6	0.01%			13.69	25.98	44	6	39.67	NCLSHT
NBA0518_2-50	50	2	18		180880.3	0.01%			2.09	2.54	22	3	4.64	NCLSHT
NBA0618_2-50	50	2	18		171604.9	0.01%			1.99	3.97	30	4	5.96	NCLSHT
NBA0718_2-50	50	2	18		172235.2	0.00%			1.89	7.67	44	6	9.57	NCLSHT
NBA0818_2-50	50	2	18		173128.8	0.01%			4.18	10.78	44	6	14.96	NCLSHT
NBA0918_2-50	50	2	18		182592.7	0.00%			2.94	10.87	60	8	13.81	NCLSHT
NBA006_4-6	6	4	6		6205.6	0.00%			0.07	0.06	5	1	0.12	NCLSHT
NBA016_4-6	6	4	6		7082.0	0.00%			0.16	0.11	10	2	0.27	NCLSHT
NBA026_4-6	6	4	6		7218.7	0.00%			0.07	0.05	5	1	0.12	NCLSHT
NBA036_4-6	6	4	6		6632.3	0.20%			0.14	0.26	10	2	0.40	NCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_4-6	6	4	6		5447.3	0.31%			0.07	0.09	10	2	0.16	NCLSHT
NBA056_4-6	6	4	6		7718.5	0.23%			0.18	0.15	10	2	0.34	NCLSHT
NBA066_4-6	6	4	6		6290.8	0.37%			0.28	0.32	10	2	0.59	NCLSHT
NBA076_4-6	6	4	6		7594.9	0.00%			0.10	0.05	5	1	0.15	NCLSHT
NBA086_4-6	6	4	6		5808.7	0.29%			0.12	0.14	10	2	0.27	NCLSHT
NBA096_4-6	6	4	6		8512.1	0.35%			0.18	0.29	10	2	0.47	NCLSHT
NBA0012_4-6	6	4	12		11580.9	0.00%			0.14	0.33	17	3	0.47	NCLSHT
NBA0112_4-6	6	4	12		15083.7	0.17%			0.83	2.67	23	4	3.50	NCLSHT
NBA0212_4-6	6	4	12		14377.3	0.00%			0.29	0.37	11	2	0.66	NCLSHT
NBA0312_4-6	6	4	12		14191.9	0.00%			0.23	0.64	17	3	0.87	NCLSHT
NBA0412_4-6	6	4	12		12613.3	0.33%			0.37	0.71	11	2	1.08	NCLSHT
NBA0512_4-6	6	4	12		15604.9	0.08%			0.66	2.89	28	5	3.55	NCLSHT
NBA0612_4-6	6	4	12		12624.3	0.00%			0.23	0.35	11	2	0.58	NCLSHT
NBA0712_4-6	6	4	12		14536.2	0.02%			0.31	1.75	39	7	2.06	NCLSHT
NBA0812_4-6	6	4	12		12165.7	0.00%			0.37	0.66	11	2	1.02	NCLSHT
NBA0912_4-6	6	4	12		14717.5	0.12%			0.20	0.93	34	6	1.13	NCLSHT
NBA0018_4-6	6	4	18		18430.2	0.00%			0.52	1.35	22	3	1.87	NCLSHT
NBA0118_4-6	6	4	18		21321.9	0.00%			1.45	3.89	36	5	5.35	NCLSHT
NBA0218_4-6	6	4	18		21169.6	0.00%			0.63	2.76	36	5	3.40	NCLSHT
NBA0318_4-6	6	4	18		21681.1	0.03%			1.05	2.09	30	4	3.14	NCLSHT
NBA0418_4-6	6	4	18		19666.6	0.02%			0.60	1.29	22	3	1.88	NCLSHT
NBA0518_4-6	6	4	18		23039.2	0.10%			1.27	4.30	30	4	5.57	NCLSHT
NBA0618_4-6	6	4	18		19484.5	0.03%			1.28	2.55	22	3	3.84	NCLSHT
NBA0718_4-6	6	4	18		22133.1	0.00%			0.62	1.35	22	3	1.96	NCLSHT
NBA0818_4-6	6	4	18		18080.0	0.08%			1.02	2.37	30	4	3.39	NCLSHT
NBA0918_4-6	6	4	18		21972.9	0.00%			0.73	1.25	22	3	1.98	NCLSHT
NBA006_4-12	12	4	6		13173.7	0.15%			0.26	0.53	10	2	0.79	NCLSHT
NBA016_4-12	12	4	6		15317.8	0.05%			0.44	0.71	10	2	1.15	NCLSHT
NBA026_4-12	12	4	6		13123.9	0.00%			0.21	0.45	15	3	0.67	NCLSHT
NBA036_4-12	12	4	6		12217.2	0.00%			0.28	0.35	10	2	0.63	NCLSHT
NBA046_4-12	12	4	6		14293.9	0.11%			0.28	0.15	5	1	0.43	NCLSHT
NBA056_4-12	12	4	6		14140.6	0.34%			0.55	0.23	5	1	0.78	NCLSHT
NBA066_4-12	12	4	6		12637.1	0.01%			0.22	0.08	5	1	0.30	NCLSHT
NBA076_4-12	12	4	6		12414.1	0.04%			0.23	0.57	15	3	0.80	NCLSHT
NBA086_4-12	12	4	6		14647.9	0.00%			0.21	0.33	10	2	0.53	NCLSHT
NBA096_4-12	12	4	6		13187.8	0.04%			0.48	0.63	10	2	1.11	NCLSHT
NBA0012_4-12	12	4	12		24517.6	0.01%			0.71	1.84	23	4	2.55	NCLSHT
NBA0112_4-12	12	4	12		28359.0	0.00%			1.89	6.72	34	6	8.61	NCLSHT
NBA0212_4-12	12	4	12		26394.4	0.00%			0.44	1.99	28	5	2.43	NCLSHT
NBA0312_4-12	12	4	12		25275.1	0.00%			0.48	1.18	17	3	1.67	NCLSHT
NBA0412_4-12	12	4	12		27198.8	0.00%			0.40	1.16	17	3	1.56	NCLSHT
NBA0512_4-12	12	4	12		27764.0	0.00%			0.48	1.85	28	5	2.32	NCLSHT
NBA0612_4-12	12	4	12		24522.9	0.00%			0.32	0.60	17	3	0.93	NCLSHT
NBA0712_4-12	12	4	12		26154.1	0.00%			0.67	3.93	40	7	4.60	NCLSHT
NBA0812_4-12	12	4	12		27994.2	0.00%			0.47	1.20	17	3	1.67	NCLSHT
NBA0912_4-12	12	4	12		28382.6	0.01%			2.61	11.76	28	5	14.37	NCLSHT
NBA0018_4-12	12	4	18		38028.4	0.00%			1.84	4.84	22	3	6.68	NCLSHT
NBA0118_4-12	12	4	18		41645.7	0.20%			6.78	13.27	30	4	20.05	NCLSHT
NBA0218_4-12	12	4	18		39280.0	0.03%			1.69	2.40	22	3	4.08	NCLSHT
NBA0318_4-12	12	4	18		39463.4	0.00%			1.24	4.84	36	5	6.08	NCLSHT
NBA0418_4-12	12	4	18		40569.9	0.00%			1.90	8.47	30	4	10.37	NCLSHT
NBA0518_4-12	12	4	18		41004.8	0.01%			1.48	8.10	36	5	9.57	NCLSHT
NBA0618_4-12	12	4	18		37066.0	0.00%			1.00	2.00	22	3	3.01	NCLSHT
NBA0718_4-12	12	4	18		41034.4	0.00%			2.51	6.31	30	4	8.81	NCLSHT
NBA0818_4-12	12	4	18		42721.3	0.00%			0.98	2.89	30	4	3.87	NCLSHT
NBA0918_4-12	12	4	18		41443.2	0.18%			7.55	35.53	44	6	43.09	NCLSHT
NBA006_4-25	25	4	6		25499.0	0.02%			0.58	1.06	20	4	1.64	NCLSHT
NBA016_4-25	25	4	6		29406.6	0.04%			0.61	0.97	15	3	1.57	NCLSHT
NBA026_4-25	25	4	6		27556.1	0.03%			0.50	1.17	20	4	1.67	NCLSHT
NBA036_4-25	25	4	6		25870.5	0.00%			0.62	0.65	10	2	1.28	NCLSHT
NBA046_4-25	25	4	6		26644.3	0.11%			0.36	0.28	10	2	0.63	NCLSHT
NBA056_4-25	25	4	6		30131.7	0.07%			0.67	0.69	15	3	1.36	NCLSHT
NBA066_4-25	25	4	6		25357.7	0.09%			0.30	0.30	10	2	0.61	NCLSHT
NBA076_4-25	25	4	6		26955.5	0.07%			0.84	0.57	10	2	1.41	NCLSHT
NBA086_4-25	25	4	6		26221.8	0.03%			0.35	0.15	5	1	0.49	NCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_4-25	25	4	6		27849.5	0.00%			0.61	0.49	10	2	1.10	NCLSHT
NBA0012_4-25	25	4	12		53575.0	0.00%			3.81	13.39	50	9	17.20	NCLSHT
NBA0112_4-25	25	4	12		56256.9	0.00%			1.02	2.89	28	5	3.92	NCLSHT
NBA0212_4-25	25	4	12		53173.0	0.03%			1.64	6.83	34	6	8.47	NCLSHT
NBA0312_4-25	25	4	12		53938.9	0.00%			0.91	3.63	34	6	4.54	NCLSHT
NBA0412_4-25	25	4	12		54865.0	0.00%			1.04	3.49	34	6	4.53	NCLSHT
NBA0512_4-25	25	4	12		57027.9	0.00%			0.75	3.80	34	6	4.56	NCLSHT
NBA0612_4-25	25	4	12		50610.8	0.01%			0.66	2.11	28	5	2.78	NCLSHT
NBA0712_4-25	25	4	12		55377.9	0.00%			2.12	11.27	40	7	13.39	NCLSHT
NBA0812_4-25	25	4	12		53999.8	0.06%			1.19	3.36	28	5	4.55	NCLSHT
NBA0912_4-25	25	4	12		54741.5	0.00%			1.04	3.44	28	5	4.48	NCLSHT
NBA0018_4-25	25	4	18		77881.6	0.03%			6.56	12.13	22	3	18.69	NCLSHT
NBA0118_4-25	25	4	18		83801.3	0.00%			2.12	4.25	22	3	6.37	NCLSHT
NBA0218_4-25	25	4	18		80781.6	0.01%			3.32	10.21	36	5	13.52	NCLSHT
NBA0318_4-25	25	4	18		80248.6	0.00%			2.73	4.88	22	3	7.61	NCLSHT
NBA0418_4-25	25	4	18		83279.8	0.00%			1.33	4.63	44	6	5.96	NCLSHT
NBA0518_4-25	25	4	18		84251.2	0.02%			4.63	4.78	22	3	9.41	NCLSHT
NBA0618_4-25	25	4	18		77312.2	0.01%			1.44	4.69	44	6	6.13	NCLSHT
NBA0718_4-25	25	4	18		82392.6	0.03%			5.23	8.36	22	3	13.59	NCLSHT
NBA0818_4-25	25	4	18		78378.5	0.00%			2.69	3.27	22	3	5.96	NCLSHT
NBA0918_4-25	25	4	18		82201.5	0.00%			4.64	6.86	22	3	11.50	NCLSHT
NBA006_4-50	50	4	6		54601.1	0.05%			0.73	0.87	15	3	1.60	NCLSHT
NBA016_4-50	50	4	6		55371.1	0.03%			0.67	0.50	10	2	1.18	NCLSHT
NBA026_4-50	50	4	6		55982.6	0.00%			0.74	0.46	10	2	1.20	NCLSHT
NBA036_4-50	50	4	6		55113.7	0.04%			2.38	1.10	10	2	3.49	NCLSHT
NBA046_4-50	50	4	6		56682.1	0.03%			3.40	4.58	15	3	7.98	NCLSHT
NBA056_4-50	50	4	6		57404.4	0.13%			0.89	0.55	10	2	1.44	NCLSHT
NBA066_4-50	50	4	6		52798.6	0.00%			0.80	0.57	10	2	1.37	NCLSHT
NBA076_4-50	50	4	6		51565.7	0.00%			1.00	0.62	10	2	1.62	NCLSHT
NBA086_4-50	50	4	6		52848.3	0.03%			0.76	0.59	10	2	1.35	NCLSHT
NBA096_4-50	50	4	6		60101.4	0.01%			0.75	0.53	10	2	1.28	NCLSHT
NBA0012_4-50	50	4	12		110308.9	0.03%			3.61	13.58	28	5	17.19	NCLSHT
NBA0112_4-50	50	4	12		108410.6	0.00%			1.47	6.54	40	7	8.01	NCLSHT
NBA0212_4-50	50	4	12		107881.1	0.00%			2.04	6.20	34	6	8.24	NCLSHT
NBA0312_4-50	50	4	12		109984.8	0.00%			4.19	11.09	40	7	15.29	NCLSHT
NBA0412_4-50	50	4	12		109447.1	0.00%			2.44	6.68	23	4	9.12	NCLSHT
NBA0512_4-50	50	4	12		111980.6	0.01%			1.47	6.62	34	6	8.09	NCLSHT
NBA0612_4-50	50	4	12		104018.8	0.05%			1.15	3.74	28	5	4.88	NCLSHT
NBA0712_4-50	50	4	12		106402.2	0.00%			4.54	26.15	40	7	30.69	NCLSHT
NBA0812_4-50	50	4	12		106460.4	0.00%			1.21	5.53	45	8	6.74	NCLSHT
NBA0912_4-50	50	4	12		114318.0	0.01%			3.33	6.74	40	7	10.07	NCLSHT
NBA0018_4-50	50	4	18		159940.3	0.00%			3.32	9.33	36	5	12.65	NCLSHT
NBA0118_4-50	50	4	18		161690.1	0.00%			3.66	6.50	22	3	10.16	NCLSHT
NBA0218_4-50	50	4	18		162666.7	0.01%			13.63	38.02	30	4	51.65	NCLSHT
NBA0318_4-50	50	4	18		162995.4	0.00%			10.28	17.04	44	6	27.32	NCLSHT
NBA0418_4-50	50	4	18		166165.6	0.02%			8.97	15.23	30	4	24.20	NCLSHT
NBA0518_4-50	50	4	18		167987.5	0.00%			3.67	11.96	44	6	15.63	NCLSHT
NBA0618_4-50	50	4	18		156265.3	0.01%			3.42	12.30	52	7	15.72	NCLSHT
NBA0718_4-50	50	4	18		161438.7	0.04%			18.70	42.00	30	4	60.71	NCLSHT
NBA0818_4-50	50	4	18		157274.7	0.00%			3.23	9.77	52	7	13.00	NCLSHT
NBA0918_4-50	50	4	18		168433.2	0.00%			9.38	16.65	52	7	26.03	NCLSHT
NBA006_6-6	6	6	6		5607.2	0.00%			0.11	0.19	15	3	0.29	NCLSHT
NBA016_6-6	6	6	6		7113.2	0.00%			0.23	0.16	5	1	0.39	NCLSHT
NBA026_6-6	6	6	6		6939.6	0.00%			0.11	0.08	5	1	0.20	NCLSHT
NBA036_6-6	6	6	6		7315.9	0.00%			0.10	0.06	5	1	0.17	NCLSHT
NBA046_6-6	6	6	6		8021.5	0.05%			0.20	0.11	5	1	0.32	NCLSHT
NBA056_6-6	6	6	6		7914.6	0.04%			0.24	0.30	10	2	0.55	NCLSHT
NBA066_6-6	6	6	6		6664.3	0.06%			0.12	0.18	10	2	0.30	NCLSHT
NBA076_6-6	6	6	6		7705.1	0.12%			0.12	0.21	10	2	0.33	NCLSHT
NBA086_6-6	6	6	6		6637.0	0.18%			0.24	0.16	10	2	0.40	NCLSHT
NBA096_6-6	6	6	6		7393.0	0.03%			0.18	0.16	10	2	0.35	NCLSHT
NBA0012_6-6	6	6	12		11955.5	0.00%			0.15	0.26	17	3	0.40	NCLSHT
NBA0112_6-6	6	6	12		14044.9	0.00%			0.73	2.65	23	4	3.37	NCLSHT
NBA0212_6-6	6	6	12		14140.5	0.00%			0.32	1.01	28	5	1.34	NCLSHT
NBA0312_6-6	6	6	12		14707.6	0.03%			0.49	1.21	17	3	1.70	NCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0412_6-6	6	6	12		14753.8	0.03%			0.84	3.19	39	7	4.03	NCLSHT
NBA0512_6-6	6	6	12		14520.2	0.03%			0.47	1.85	34	6	2.33	NCLSHT
NBA0612_6-6	6	6	12		12568.0	0.00%			0.39	0.73	11	2	1.12	NCLSHT
NBA0712_6-6	6	6	12		15143.0	0.22%			0.43	1.98	34	6	2.41	NCLSHT
NBA0812_6-6	6	6	12		12278.5	0.00%			0.46	0.43	11	2	0.88	NCLSHT
NBA0912_6-6	6	6	12		13996.4	0.06%			0.40	0.63	11	2	1.04	NCLSHT
NBA0018_6-6	6	6	18		17742.3	0.00%			0.27	0.56	22	3	0.83	NCLSHT
NBA0118_6-6	6	6	18		21526.3	0.00%			1.28	2.70	22	3	3.99	NCLSHT
NBA0218_6-6	6	6	18		19872.5	0.01%			0.95	1.15	14	2	2.10	NCLSHT
NBA0318_6-6	6	6	18		20492.7	0.00%			0.79	1.81	22	3	2.61	NCLSHT
NBA0418_6-6	6	6	18		21953.4	0.00%			1.25	1.84	22	3	3.09	NCLSHT
NBA0518_6-6	6	6	18		22131.6	0.01%			1.37	4.95	36	5	6.32	NCLSHT
NBA0618_6-6	6	6	18		19938.6	0.00%			1.04	1.98	22	3	3.02	NCLSHT
NBA0718_6-6	6	6	18		21759.8	0.00%			0.60	0.76	14	2	1.36	NCLSHT
NBA0818_6-6	6	6	18		19912.4	0.02%			1.05	2.14	22	3	3.19	NCLSHT
NBA0918_6-6	6	6	18		21294.7	0.00%			1.11	1.75	22	3	2.86	NCLSHT
NBA006_6-12	12	6	6		12748.1	0.22%			0.40	0.33	5	1	0.73	NCLSHT
NBA016_6-12	12	6	6		13035.9	0.02%			0.68	0.71	10	2	1.38	NCLSHT
NBA026_6-12	12	6	6		12007.6	0.00%			0.17	0.08	5	1	0.25	NCLSHT
NBA036_6-12	12	6	6		12923.5	0.00%			0.17	0.12	5	1	0.30	NCLSHT
NBA046_6-12	12	6	6		12760.0	0.00%			0.20	0.31	10	2	0.51	NCLSHT
NBA056_6-12	12	6	6		12344.0	0.09%			0.20	0.24	10	2	0.44	NCLSHT
NBA066_6-12	12	6	6		11652.9	0.10%			0.52	0.87	15	3	1.39	NCLSHT
NBA076_6-12	12	6	6		13480.8	0.01%			0.52	1.05	15	3	1.57	NCLSHT
NBA086_6-12	12	6	6		13379.5	0.04%			0.67	0.88	10	2	1.56	NCLSHT
NBA096_6-12	12	6	6		14301.6	0.00%			0.31	0.50	10	2	0.81	NCLSHT
NBA0012_6-12	12	6	12		24110.7	0.00%			0.79	2.15	28	5	2.94	NCLSHT
NBA0112_6-12	12	6	12		25525.9	0.02%			0.79	2.95	28	5	3.75	NCLSHT
NBA0212_6-12	12	6	12		24025.6	0.00%			1.12	3.30	28	5	4.42	NCLSHT
NBA0312_6-12	12	6	12		26446.1	0.00%			0.76	2.78	28	5	3.53	NCLSHT
NBA0412_6-12	12	6	12		24984.9	0.01%			0.45	0.69	11	2	1.13	NCLSHT
NBA0512_6-12	12	6	12		26188.4	0.00%			0.75	2.45	28	5	3.20	NCLSHT
NBA0612_6-12	12	6	12		23453.7	0.00%			1.27	2.72	17	3	3.99	NCLSHT
NBA0712_6-12	12	6	12		27892.1	0.06%			3.98	5.65	11	2	9.64	NCLSHT
NBA0812_6-12	12	6	12		25602.1	0.00%			1.44	9.24	28	5	10.68	NCLSHT
NBA0912_6-12	12	6	12		27276.2	0.00%			3.15	5.28	17	3	8.43	NCLSHT
NBA0018_6-12	12	6	18		36370.4	0.00%			1.20	3.18	22	3	4.37	NCLSHT
NBA0118_6-12	12	6	18		40984.0	0.03%			3.25	7.77	38	5	11.01	NCLSHT
NBA0218_6-12	12	6	18		36656.3	0.00%			1.54	2.05	14	2	3.59	NCLSHT
NBA0318_6-12	12	6	18		38314.3	0.00%			1.49	2.92	22	3	4.41	NCLSHT
NBA0418_6-12	12	6	18		36991.3	0.00%			1.46	3.18	22	3	4.64	NCLSHT
NBA0518_6-12	12	6	18		40380.4	0.00%			1.56	3.36	22	3	4.92	NCLSHT
NBA0618_6-12	12	6	18		37140.3	0.00%			4.00	6.61	22	3	10.61	NCLSHT
NBA0718_6-12	12	6	18		41299.5	0.06%			5.98	13.49	44	6	19.46	NCLSHT
NBA0818_6-12	12	6	18		39068.6	0.14%			8.53	43.31	36	5	51.84	NCLSHT
NBA0918_6-12	12	6	18		41031.1	0.00%			2.74	5.08	22	3	7.82	NCLSHT
NBA006_6-25	25	6	6		25561.0	0.02%			0.72	0.50	5	1	1.22	NCLSHT
NBA016_6-25	25	6	6		25308.2	0.03%			0.86	1.04	10	2	1.90	NCLSHT
NBA026_6-25	25	6	6		26737.0	0.07%			0.57	0.70	10	2	1.27	NCLSHT
NBA036_6-25	25	6	6		26587.1	0.08%			2.84	2.01	10	2	4.84	NCLSHT
NBA046_6-25	25	6	6		28381.4	0.08%			1.35	1.31	10	2	2.66	NCLSHT
NBA056_6-25	25	6	6		26225.3	0.02%			0.80	0.78	10	2	1.59	NCLSHT
NBA066_6-25	25	6	6		25278.4	0.00%			0.46	0.42	10	2	0.87	NCLSHT
NBA076_6-25	25	6	6		27859.3	0.03%			0.83	0.84	10	2	1.67	NCLSHT
NBA086_6-25	25	6	6		26562.8	0.00%			0.51	0.59	10	2	1.10	NCLSHT
NBA096_6-25	25	6	6		26258.7	0.00%			0.81	0.53	10	2	1.33	NCLSHT
NBA0012_6-25	25	6	12		52244.8	0.00%			2.25	11.49	34	6	13.74	NCLSHT
NBA0112_6-25	25	6	12		52470.8	0.00%			7.37	36.31	23	4	43.68	NCLSHT
NBA0212_6-25	25	6	12		53883.4	0.01%			2.80	13.72	45	8	16.52	NCLSHT
NBA0312_6-25	25	6	12		52207.5	0.07%			6.50	29.52	34	6	36.02	NCLSHT
NBA0412_6-25	25	6	12		55769.3	0.09%			7.52	29.32	23	4	36.84	NCLSHT
NBA0512_6-25	25	6	12		51645.6	0.01%			5.98	65.62	45	8	71.60	NCLSHT
NBA0612_6-25	25	6	12		50897.1	0.01%			0.75	1.60	17	3	2.35	NCLSHT
NBA0712_6-25	25	6	12		52537.6	0.03%			3.26	8.74	28	5	12.00	NCLSHT
NBA0812_6-25	25	6	12		51075.3	0.00%			1.45	3.30	17	3	4.76	NCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_6-25	25	6	12		53464.4	0.00%			3.60	13.71	34	6	17.31	NCLSHT
NBA0018_6-25	25	6	18		76067.3	0.03%			19.91	32.03	22	3	51.94	NCLSHT
NBA0118_6-25	25	6	18		79195.6	0.00%			7.35	21.53	36	5	28.88	NCLSHT
NBA0218_6-25	25	6	18		81519.2	0.04%			10.33	23.45	30	4	33.78	NCLSHT
NBA0318_6-25	25	6	18		79369.5	0.08%			19.92	50.03	36	5	69.95	NCLSHT
NBA0418_6-25	25	6	18		84583.7	0.07%			30.88	43.63	22	3	74.51	NCLSHT
NBA0518_6-25	25	6	18		80788.8	0.01%			8.04	8.32	22	3	16.35	NCLSHT
NBA0618_6-25	25	6	18		76162.0	0.00%			2.68	6.30	30	4	8.98	NCLSHT
NBA0718_6-25	25	6	18		77487.6	0.01%			14.73	15.95	22	3	30.69	NCLSHT
NBA0818_6-25	25	6	18		74935.8	0.00%			7.64	14.16	36	5	21.79	NCLSHT
NBA0918_6-25	25	6	18		81165.0	0.00%			7.55	9.20	22	3	16.75	NCLSHT
NBA006_6-50	50	6	6		50530.5	0.00%			1.53	1.49	15	3	3.02	NCLSHT
NBA016_6-50	50	6	6		50584.3	0.00%			2.00	1.63	10	2	3.62	NCLSHT
NBA026_6-50	50	6	6		52070.2	0.02%			1.83	1.53	10	2	3.37	NCLSHT
NBA036_6-50	50	6	6		51621.7	0.04%			0.88	0.90	10	2	1.78	NCLSHT
NBA046_6-50	50	6	6		53903.6	0.05%			2.35	1.65	10	2	4.00	NCLSHT
NBA056_6-50	50	6	6		52682.6	0.05%			1.31	1.62	10	2	2.93	NCLSHT
NBA066_6-50	50	6	6		51791.9	0.01%			5.98	2.68	10	2	8.65	NCLSHT
NBA076_6-50	50	6	6		53971.7	0.05%			1.07	1.31	10	2	2.38	NCLSHT
NBA086_6-50	50	6	6		50770.3	0.01%			0.93	0.73	10	2	1.66	NCLSHT
NBA096_6-50	50	6	6		50619.0	0.01%			0.82	0.99	10	2	1.81	NCLSHT
NBA0012_6-50	50	6	12		102387.2	0.00%			2.51	7.33	28	5	9.84	NCLSHT
NBA0112_6-50	50	6	12		101423.2	0.02%			3.03	16.05	40	7	19.08	NCLSHT
NBA0212_6-50	50	6	12		104867.7	0.01%			8.49	39.38	34	6	47.87	NCLSHT
NBA0312_6-50	50	6	12		102384.7	0.00%			5.68	6.40	17	3	12.08	NCLSHT
NBA0412_6-50	50	6	12		109574.5	0.01%			7.13	15.53	28	5	22.66	NCLSHT
NBA0512_6-50	50	6	12		105149.5	0.01%			9.70	90.19	57	10	99.90	NCLSHT
NBA0612_6-50	50	6	12		101769.0	0.01%			8.54	28.76	39	7	37.31	NCLSHT
NBA0712_6-50	50	6	12		107431.9	0.00%			2.62	9.73	28	5	12.35	NCLSHT
NBA0812_6-50	50	6	12		99756.9	0.01%			2.08	7.43	34	6	9.51	NCLSHT
NBA0912_6-50	50	6	12		102204.5	0.01%			3.52	10.91	28	5	14.43	NCLSHT
NBA0018_6-50	50	6	18		152635.8	0.01%			7.78	9.46	22	3	17.24	NCLSHT
NBA0118_6-50	50	6	18		150740.0	0.00%			16.43	31.07	22	3	47.50	NCLSHT
NBA0218_6-50	50	6	18		154214.9	0.01%			17.18	57.90	44	6	75.08	NCLSHT
NBA0318_6-50	50	6	18		154026.0	0.00%			8.65	24.81	36	5	33.46	NCLSHT
NBA0418_6-50	50	6	18		164546.2	0.00%			17.84	70.44	60	8	88.27	NCLSHT
NBA0518_6-50	50	6	18		155185.1	0.03%			26.47	24.22	22	3	50.69	NCLSHT
NBA0618_6-50	50	6	18		153877.3	0.04%			30.81	56.03	36	5	86.84	NCLSHT
NBA0718_6-50	50	6	18		158995.2	0.00%			12.63	28.40	36	5	41.04	NCLSHT
NBA0818_6-50	50	6	18		150914.1	0.00%			14.56	41.45	44	6	56.01	NCLSHT
NBA0918_6-50	50	6	18		154015.2	0.00%			8.62	23.53	44	6	32.15	NCLSHT
NBB006_2-6	6	2	6		8081.5	0.00%			0.13	0.18	10	2	0.32	NCLSLT
NBB016_2-6	6	2	6		5923.7	0.00%			0.05	0.06	10	2	0.11	NCLSLT
NBB026_2-6	6	2	6		6940.7	0.00%			0.07	0.04	5	1	0.12	NCLSLT
NBB036_2-6	6	2	6		7714.2	0.00%			0.10	0.05	5	1	0.15	NCLSLT
NBB046_2-6	6	2	6		7828.3	0.39%			0.14	0.31	15	3	0.45	NCLSLT
NBB056_2-6	6	2	6		9352.7	0.00%			0.05	0.03	5	1	0.09	NCLSLT
NBB066_2-6	6	2	6		8012.0	0.00%			0.10	0.11	10	2	0.20	NCLSLT
NBB076_2-6	6	2	6		9072.2	0.00%			0.10	0.08	5	1	0.19	NCLSLT
NBB086_2-6	6	2	6		8182.5	0.00%			0.10	0.14	10	2	0.23	NCLSLT
NBB096_2-6	6	2	6		7089.9	0.00%			0.06	0.07	10	2	0.13	NCLSLT
NBB0012_2-6	6	2	12		15489.2	0.00%			0.31	1.19	28	5	1.50	NCLSLT
NBB0112_2-6	6	2	12		13322.4	0.00%			0.20	0.19	11	2	0.39	NCLSLT
NBB0212_2-6	6	2	12		14588.9	0.00%			0.20	0.72	28	5	0.92	NCLSLT
NBB0312_2-6	6	2	12		14732.6	0.01%			0.22	0.93	35	6	1.15	NCLSLT
NBB0412_2-6	6	2	12		13603.7	0.04%			0.44	1.82	34	6	2.26	NCLSLT
NBB0512_2-6	6	2	12		17351.7	0.07%			0.20	0.58	23	4	0.79	NCLSLT
NBB0612_2-6	6	2	12		14904.3	0.15%			0.20	0.34	11	2	0.55	NCLSLT
NBB0712_2-6	6	2	12		16591.7	0.00%			0.27	1.15	34	6	1.42	NCLSLT
NBB0812_2-6	6	2	12		14140.1	0.00%			0.19	0.86	28	5	1.05	NCLSLT
NBB0912_2-6	6	2	12		16075.5	0.00%			0.22	1.16	45	8	1.39	NCLSLT
NBB0018_2-6	6	2	18		21645.9	0.02%			0.89	2.57	22	3	3.46	NCLSLT
NBB0118_2-6	6	2	18		20072.1	0.00%			0.33	0.52	22	3	0.85	NCLSLT
NBB0218_2-6	6	2	18		22351.9	0.01%			0.55	1.14	22	3	1.69	NCLSLT
NBB0418_2-6	6	2	18		20015.1	0.00%			0.68	2.36	30	4	3.04	NCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_2-6	6	2	18		24992.0	0.10%			0.42	0.80	22	3	1.22	NCLSLT
NBB0618_2-6	6	2	18		22696.4	0.00%			0.45	2.34	52	7	2.79	NCLSLT
NBB0718_2-6	6	2	18		24299.8	0.00%			0.69	2.60	30	4	3.29	NCLSLT
NBB0818_2-6	6	2	18		20809.2	0.00%			0.47	2.11	36	5	2.58	NCLSLT
NBB0918_2-6	6	2	18		22437.3	0.00%			0.37	1.21	44	6	1.58	NCLSLT
NBB006_2-12	12	2	6		12635.0	0.00%			0.08	0.12	10	2	0.21	NCLSLT
NBB016_2-12	12	2	6		13882.6	0.00%			0.12	0.07	5	1	0.19	NCLSLT
NBB026_2-12	12	2	6		14063.8	0.06%			0.20	0.11	5	1	0.31	NCLSLT
NBB036_2-12	12	2	6		16328.3	0.07%			0.10	0.29	20	4	0.40	NCLSLT
NBB046_2-12	12	2	6		14150.7	0.00%			0.15	0.14	10	2	0.30	NCLSLT
NBB056_2-12	12	2	6		16478.1	0.00%			0.19	0.41	20	4	0.60	NCLSLT
NBB066_2-12	12	2	6		13748.0	0.00%			0.12	0.08	5	1	0.21	NCLSLT
NBB076_2-12	12	2	6		15396.6	0.00%			0.10	0.07	5	1	0.17	NCLSLT
NBB086_2-12	12	2	6		12751.3	0.00%			0.10	0.06	5	1	0.16	NCLSLT
NBB096_2-12	12	2	6		15851.9	0.09%			0.14	0.23	10	2	0.36	NCLSLT
NBB0012_2-12	12	2	12		26086.9	0.00%			0.23	0.95	28	5	1.18	NCLSLT
NBB0112_2-12	12	2	12		27401.2	0.00%			0.24	0.44	17	3	0.67	NCLSLT
NBB0212_2-12	12	2	12		27060.6	0.03%			0.46	2.28	28	5	2.74	NCLSLT
NBB0312_2-12	12	2	12		31677.0	0.00%			0.35	1.16	34	6	1.50	NCLSLT
NBB0412_2-12	12	2	12		28237.8	0.05%			0.37	0.86	17	3	1.22	NCLSLT
NBB0512_2-12	12	2	12		32001.0	0.00%			0.35	0.73	17	3	1.08	NCLSLT
NBB0612_2-12	12	2	12		27180.2	0.07%			0.28	0.74	28	5	1.02	NCLSLT
NBB0712_2-12	12	2	12		30245.0	0.00%			0.35	0.73	17	3	1.08	NCLSLT
NBB0812_2-12	12	2	12		26678.9	0.20%			0.41	1.08	17	3	1.49	NCLSLT
NBB0912_2-12	12	2	12		30953.9	0.17%			1.06	3.10	11	2	4.16	NCLSLT
NBB0018_2-12	12	2	18		39324.8	0.00%			0.49	1.09	22	3	1.59	NCLSLT
NBB0118_2-12	12	2	18		40351.0	0.03%			0.92	1.68	22	3	2.60	NCLSLT
NBB0218_2-12	12	2	18		41447.6	0.06%			1.65	7.05	44	6	8.70	NCLSLT
NBB0318_2-12	12	2	18		46144.9	0.00%			1.00	2.48	22	3	3.47	NCLSLT
NBB0418_2-12	12	2	18		44107.2	0.00%			0.97	3.40	36	5	4.37	NCLSLT
NBB0518_2-12	12	2	18		47237.3	0.00%			0.76	2.82	36	5	3.58	NCLSLT
NBB0618_2-12	12	2	18		40542.2	0.00%			0.68	2.44	36	5	3.12	NCLSLT
NBB0718_2-12	12	2	18		45414.9	0.03%			0.70	2.64	44	6	3.34	NCLSLT
NBB0818_2-12	12	2	18		41245.5	0.11%			1.03	4.32	36	5	5.35	NCLSLT
NBB0918_2-12	12	2	18		47148.4	0.20%			2.98	13.00	30	4	15.98	NCLSLT
NBB006_2-25	25	2	6		29143.6	0.00%			0.26	0.15	5	1	0.41	NCLSLT
NBB016_2-25	25	2	6		29851.4	0.04%			0.25	0.30	10	2	0.56	NCLSLT
NBB026_2-25	25	2	6		28442.3	0.08%			0.49	0.51	15	3	1.00	NCLSLT
NBB036_2-25	25	2	6		30149.0	0.09%			0.35	0.62	10	2	0.97	NCLSLT
NBB046_2-25	25	2	6		31330.3	0.04%			0.32	0.30	10	2	0.63	NCLSLT
NBB056_2-25	25	2	6		31395.9	0.13%			0.96	0.69	10	2	1.65	NCLSLT
NBB066_2-25	25	2	6		27874.4	0.00%			0.14	0.09	5	1	0.23	NCLSLT
NBB076_2-25	25	2	6		31249.7	0.07%			0.33	0.39	10	2	0.72	NCLSLT
NBB086_2-25	25	2	6		31963.1	0.00%			0.40	0.57	10	2	0.97	NCLSLT
NBB096_2-25	25	2	6		33063.0	0.26%			0.33	0.17	5	1	0.51	NCLSLT
NBB0012_2-25	25	2	12		58125.1	0.00%			0.52	1.47	34	6	1.98	NCLSLT
NBB0112_2-25	25	2	12		60838.7	0.06%			0.53	2.07	28	5	2.59	NCLSLT
NBB0212_2-25	25	2	12		56149.6	0.08%			0.76	4.43	46	8	5.19	NCLSLT
NBB0312_2-25	25	2	12		59094.8	0.02%			0.58	1.07	17	3	1.65	NCLSLT
NBB0412_2-25	25	2	12		59555.8	0.05%			0.84	2.68	28	5	3.52	NCLSLT
NBB0512_2-25	25	2	12		64792.0	0.06%			0.78	3.00	34	6	3.78	NCLSLT
NBB0612_2-25	25	2	12		57138.7	0.00%			0.29	1.06	28	5	1.35	NCLSLT
NBB0712_2-25	25	2	12		62686.4	0.00%			0.99	3.13	34	6	4.12	NCLSLT
NBB0812_2-25	25	2	12		62630.9	0.03%			1.13	4.49	29	5	5.62	NCLSLT
NBB0912_2-25	25	2	12		63819.3	0.02%			0.89	1.83	28	5	2.73	NCLSLT
NBB0018_2-25	25	2	18		86998.9	0.01%			0.73	1.40	22	3	2.13	NCLSLT
NBB0118_2-25	25	2	18		88477.8	0.00%			1.67	2.09	22	3	3.76	NCLSLT
NBB0218_2-25	25	2	18		83113.2	0.04%			2.27	11.25	44	6	13.52	NCLSLT
NBB0318_2-25	25	2	18		91204.3	0.03%			2.41	5.45	44	6	7.86	NCLSLT
NBB0418_2-25	25	2	18		90430.0	0.01%			3.24	9.53	52	7	12.76	NCLSLT
NBB0518_2-25	25	2	18		94843.5	0.10%			6.61	27.58	30	4	34.20	NCLSLT
NBB0618_2-25	25	2	18		83513.2	0.03%			0.77	1.36	22	3	2.13	NCLSLT
NBB0718_2-25	25	2	18		92028.2	0.02%			4.14	6.77	30	4	10.91	NCLSLT
NBB0818_2-25	25	2	18		91285.2	0.04%			3.08	8.21	30	4	11.29	NCLSLT
NBB0918_2-25	25	2	18		92927.0	0.00%			3.45	8.96	52	7	12.41	NCLSLT

Continua na Próxima Página

Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_2-50	50	2	6		58756.3	0.03%			0.33	0.39	10	2	0.72	NCLSLT
NBB016_2-50	50	2	6		60250.4	0.01%			0.48	0.59	15	3	1.07	NCLSLT
NBB026_2-50	50	2	6		56021.9	0.15%			0.83	0.64	10	2	1.47	NCLSLT
NBB036_2-50	50	2	6		59173.2	0.04%			0.75	0.57	10	2	1.33	NCLSLT
NBB046_2-50	50	2	6		60671.5	0.04%			1.02	1.02	10	2	2.04	NCLSLT
NBB056_2-50	50	2	6		59259.5	0.11%			0.64	0.96	15	3	1.60	NCLSLT
NBB066_2-50	50	2	6		55896.0	0.09%			0.27	0.45	10	2	0.72	NCLSLT
NBB076_2-50	50	2	6		58799.2	0.00%			0.59	0.42	10	2	1.01	NCLSLT
NBB086_2-50	50	2	6		59900.0	0.02%			0.54	0.62	10	2	1.16	NCLSLT
NBB096_2-50	50	2	6		60542.4	0.03%			0.79	0.71	10	2	1.50	NCLSLT
NBB0012_2-50	50	2	12		117271.7	0.00%			0.59	2.41	34	6	3.01	NCLSLT
NBB0112_2-50	50	2	12		119839.8	0.04%			0.78	3.15	34	6	3.93	NCLSLT
NBB0212_2-50	50	2	12		113904.3	0.01%			1.39	3.49	23	4	4.89	NCLSLT
NBB0312_2-50	50	2	12		119803.1	0.02%			1.26	8.32	40	7	9.58	NCLSLT
NBB0412_2-50	50	2	12		121909.7	0.00%			2.84	7.52	40	7	10.36	NCLSLT
NBB0512_2-50	50	2	12		119159.3	0.01%			2.18	3.92	34	6	6.09	NCLSLT
NBB0612_2-50	50	2	12		113552.7	0.00%			0.71	2.19	28	5	2.89	NCLSLT
NBB0712_2-50	50	2	12		114579.6	0.03%			0.97	5.35	23	4	6.32	NCLSLT
NBB0812_2-50	50	2	12		115227.9	0.02%			1.61	6.42	34	6	8.02	NCLSLT
NBB0912_2-50	50	2	12		122302.4	0.01%			1.02	4.22	34	6	5.24	NCLSLT
NBB0018_2-50	50	2	18		175735.4	0.01%			2.70	3.74	30	4	6.44	NCLSLT
NBB0118_2-50	50	2	18		178701.4	0.00%			1.80	2.96	22	3	4.76	NCLSLT
NBB0218_2-50	50	2	18		169552.7	0.01%			7.86	21.28	58	8	29.14	NCLSLT
NBB0318_2-50	50	2	18		180957.5	0.01%			4.47	8.77	36	5	13.24	NCLSLT
NBB0418_2-50	50	2	18		181476.7	0.03%			15.70	20.74	38	5	36.44	NCLSLT
NBB0518_2-50	50	2	18		180955.1	0.01%			7.82	7.12	44	6	14.94	NCLSLT
NBB0618_2-50	50	2	18		171678.1	0.01%			2.41	4.70	30	4	7.11	NCLSLT
NBB0718_2-50	50	2	18		172320.4	0.00%			4.23	11.86	44	6	16.09	NCLSLT
NBB0818_2-50	50	2	18		173358.0	0.02%			5.42	18.35	52	7	23.77	NCLSLT
NBB0918_2-50	50	2	18		182732.7	0.00%			6.51	17.88	68	9	24.39	NCLSLT
NBB006_4-6	6	4	6		6354.9	0.00%			0.13	0.20	10	2	0.33	NCLSLT
NBB016_4-6	6	4	6		7260.5	0.13%			0.29	0.15	5	1	0.43	NCLSLT
NBB026_4-6	6	4	6		7329.5	0.00%			0.13	0.15	5	1	0.28	NCLSLT
NBB036_4-6	6	4	6		6713.5	0.10%			0.11	0.07	5	1	0.18	NCLSLT
NBB046_4-6	6	4	6		5584.9	0.29%			0.10	0.06	5	1	0.16	NCLSLT
NBB056_4-6	6	4	6		7908.1	0.11%			0.52	0.91	10	2	1.43	NCLSLT
NBB066_4-6	6	4	6		6392.5	0.07%			0.24	0.17	10	2	0.40	NCLSLT
NBB076_4-6	6	4	6		7687.1	0.00%			0.08	0.11	10	2	0.19	NCLSLT
NBB086_4-6	6	4	6		5876.0	0.22%			0.11	0.07	5	1	0.18	NCLSLT
NBB096_4-6	6	4	6		8535.7	0.17%			0.17	0.18	10	2	0.36	NCLSLT
NBB0012_4-6	6	4	12		11759.4	0.00%			0.17	0.46	17	3	0.63	NCLSLT
NBB0112_4-6	6	4	12		15228.5	0.00%			0.76	1.42	17	3	2.18	NCLSLT
NBB0212_4-6	6	4	12		14584.9	0.00%			0.34	0.92	17	3	1.26	NCLSLT
NBB0312_4-6	6	4	12		14412.2	0.00%			0.30	0.50	17	3	0.80	NCLSLT
NBB0412_4-6	6	4	12		12915.9	0.25%			1.04	2.86	17	3	3.90	NCLSLT
NBB0512_4-6	6	4	12		15807.8	0.00%			0.58	2.88	28	5	3.46	NCLSLT
NBB0612_4-6	6	4	12		12773.8	0.00%			0.27	0.66	22	4	0.93	NCLSLT
NBB0712_4-6	6	4	12		14712.6	0.00%			0.33	1.43	34	6	1.75	NCLSLT
NBB0812_4-6	6	4	12		12363.6	0.00%			0.53	1.06	17	3	1.58	NCLSLT
NBB0912_4-6	6	4	12		14839.4	0.02%			0.26	0.42	17	3	0.68	NCLSLT
NBB0018_4-6	6	4	18		18652.8	0.00%			0.87	3.26	36	5	4.13	NCLSLT
NBB0118_4-6	6	4	18		21728.6	0.06%			1.60	5.74	36	5	7.35	NCLSLT
NBB0218_4-6	6	4	18		21436.5	0.00%			0.72	1.25	14	2	1.98	NCLSLT
NBB0318_4-6	6	4	18		22037.0	0.00%			0.83	1.90	22	3	2.73	NCLSLT
NBB0418_4-6	6	4	18		19989.0	0.10%			0.89	3.49	30	4	4.38	NCLSLT
NBB0518_4-6	6	4	18		23482.1	0.00%			1.92	4.23	22	3	6.15	NCLSLT
NBB0618_4-6	6	4	18		19868.3	0.00%			1.24	1.83	14	2	3.08	NCLSLT
NBB0718_4-6	6	4	18		22421.3	0.02%			0.82	2.92	36	5	3.74	NCLSLT
NBB0818_4-6	6	4	18		18186.6	0.00%			0.92	2.51	36	5	3.43	NCLSLT
NBB0918_4-6	6	4	18		22141.8	0.00%			0.59	1.15	22	3	1.74	NCLSLT
NBB006_4-12	12	4	6		13286.3	0.00%			0.44	0.65	10	2	1.10	NCLSLT
NBB016_4-12	12	4	6		15466.2	0.26%			0.53	0.61	10	2	1.14	NCLSLT
NBB026_4-12	12	4	6		13158.9	0.00%			0.20	0.35	10	2	0.55	NCLSLT
NBB036_4-12	12	4	6		12376.6	0.14%			0.52	1.02	15	3	1.53	NCLSLT
NBB046_4-12	12	4	6		14396.1	0.22%			0.34	0.32	10	2	0.66	NCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_4-12	12	4	6		14168.8	0.00%			0.53	0.50	10	2	1.02	NCLSLT
NBB066_4-12	12	4	6		12695.8	0.22%			0.21	0.11	5	1	0.31	NCLSLT
NBB076_4-12	12	4	6		12500.5	0.14%			0.25	0.43	10	2	0.68	NCLSLT
NBB086_4-12	12	4	6		14698.7	0.00%			0.28	0.31	10	2	0.59	NCLSLT
NBB096_4-12	12	4	6		13297.5	0.12%			0.43	0.76	10	2	1.20	NCLSLT
NBB0012_4-12	12	4	12		24808.8	0.00%			1.32	3.67	23	4	4.99	NCLSLT
NBB0112_4-12	12	4	12		28643.2	0.17%			1.90	12.24	40	7	14.14	NCLSLT
NBB0212_4-12	12	4	12		26534.4	0.00%			0.72	3.29	22	4	4.01	NCLSLT
NBB0312_4-12	12	4	12		25484.4	0.00%			0.85	3.11	28	5	3.97	NCLSLT
NBB0412_4-12	12	4	12		27361.6	0.00%			0.75	1.86	17	3	2.61	NCLSLT
NBB0512_4-12	12	4	12		27954.2	0.00%			0.86	4.78	34	6	5.65	NCLSLT
NBB0612_4-12	12	4	12		24618.3	0.00%			0.34	0.68	17	3	1.02	NCLSLT
NBB0712_4-12	12	4	12		26373.1	0.06%			2.22	8.44	40	7	10.67	NCLSLT
NBB0812_4-12	12	4	12		28128.8	0.00%			0.72	1.78	17	3	2.50	NCLSLT
NBB0912_4-12	12	4	12		28652.0	0.15%			4.14	9.25	17	3	13.39	NCLSLT
NBB0018_4-12	12	4	18		38502.2	0.23%			5.07	37.56	36	5	42.63	NCLSLT
NBB0118_4-12	12	4	18		42092.8	0.26%			7.43	23.50	30	4	30.92	NCLSLT
NBB0218_4-12	12	4	18		39464.5	0.02%			1.87	3.02	14	2	4.89	NCLSLT
NBB0318_4-12	12	4	18		39746.7	0.00%			2.22	8.81	44	6	11.03	NCLSLT
NBB0418_4-12	12	4	18		40754.9	0.00%			2.00	5.99	22	3	7.99	NCLSLT
NBB0518_4-12	12	4	18		41184.6	0.04%			4.66	8.40	30	4	13.06	NCLSLT
NBB0618_4-12	12	4	18		37188.1	0.00%			0.99	2.07	22	3	3.07	NCLSLT
NBB0718_4-12	12	4	18		41241.5	0.06%			4.19	5.25	22	3	9.44	NCLSLT
NBB0818_4-12	12	4	18		42927.6	0.07%			1.82	8.77	44	6	10.59	NCLSLT
NBB0918_4-12	12	4	18		41747.8	0.23%			5.62	18.63	30	4	24.25	NCLSLT
NBB006_4-25	25	4	6		25602.8	0.00%			0.73	0.76	10	2	1.50	NCLSLT
NBB016_4-25	25	4	6		29489.7	0.00%			0.70	0.66	10	2	1.37	NCLSLT
NBB026_4-25	25	4	6		27653.3	0.00%			0.75	1.26	15	3	2.01	NCLSLT
NBB036_4-25	25	4	6		26086.3	0.11%			1.04	1.02	10	2	2.06	NCLSLT
NBB046_4-25	25	4	6		26666.0	0.03%			0.38	0.30	10	2	0.68	NCLSLT
NBB056_4-25	25	4	6		30216.8	0.16%			0.59	0.24	5	1	0.83	NCLSLT
NBB066_4-25	25	4	6		25384.5	0.00%			0.37	0.63	15	3	1.00	NCLSLT
NBB076_4-25	25	4	6		27131.0	0.14%			1.21	1.83	10	2	3.05	NCLSLT
NBB086_4-25	25	4	6		26268.5	0.00%			0.60	0.63	10	2	1.23	NCLSLT
NBB096_4-25	25	4	6		27960.9	0.02%			0.60	0.84	10	2	1.44	NCLSLT
NBB0012_4-25	25	4	12		53745.8	0.02%			3.89	25.77	45	8	29.66	NCLSLT
NBB0112_4-25	25	4	12		56359.1	0.00%			1.65	4.72	28	5	6.37	NCLSLT
NBB0212_4-25	25	4	12		53364.0	0.10%			5.72	16.98	23	4	22.69	NCLSLT
NBB0312_4-25	25	4	12		54130.0	0.00%			3.60	8.75	28	5	12.35	NCLSLT
NBB0412_4-25	25	4	12		54983.3	0.01%			1.35	2.14	17	3	3.50	NCLSLT
NBB0512_4-25	25	4	12		57200.1	0.13%			1.44	6.31	40	7	7.75	NCLSLT
NBB0612_4-25	25	4	12		50724.9	0.01%			0.94	3.12	23	4	4.06	NCLSLT
NBB0712_4-25	25	4	12		55636.1	0.10%			9.94	13.03	23	4	22.96	NCLSLT
NBB0812_4-25	25	4	12		54135.6	0.03%			1.55	3.74	17	3	5.29	NCLSLT
NBB0912_4-25	25	4	12		54961.7	0.08%			5.12	45.11	40	7	50.23	NCLSLT
NBB0018_4-25	25	4	18		78136.7	0.04%			10.78	30.31	36	5	41.08	NCLSLT
NBB0118_4-25	25	4	18		83918.6	0.00%			3.52	5.23	22	3	8.75	NCLSLT
NBB0218_4-25	25	4	18		81006.5	0.07%			17.04	50.99	38	5	68.03	NCLSLT
NBB0318_4-25	25	4	18		80538.9	0.06%			6.56	9.79	22	3	16.35	NCLSLT
NBB0418_4-25	25	4	18		83348.5	0.00%			2.05	3.21	22	3	5.26	NCLSLT
NBB0518_4-25	25	4	18		84448.8	0.06%			6.48	36.07	44	6	42.55	NCLSLT
NBB0618_4-25	25	4	18		77414.8	0.00%			2.38	3.86	22	3	6.24	NCLSLT
NBB0718_4-25	25	4	18		82782.0	0.13%			27.33	90.85	44	6	118.18	NCLSLT
NBB0818_4-25	25	4	18		78540.3	0.02%			3.46	5.83	22	3	9.29	NCLSLT
NBB0918_4-25	25	4	18		82454.2	0.08%			17.34	31.41	22	3	48.75	NCLSLT
NBB006_4-50	50	4	6		54652.3	0.02%			0.90	0.68	10	2	1.58	NCLSLT
NBB016_4-50	50	4	6		55454.7	0.07%			1.79	0.75	10	2	2.54	NCLSLT
NBB026_4-50	50	4	6		56067.5	0.03%			0.78	0.93	10	2	1.71	NCLSLT
NBB036_4-50	50	4	6		55327.7	0.10%			2.72	3.41	10	2	6.13	NCLSLT
NBB046_4-50	50	4	6		56958.2	0.07%			3.90	5.08	10	2	8.98	NCLSLT
NBB056_4-50	50	4	6		57378.0	0.01%			1.61	0.92	10	2	2.52	NCLSLT
NBB066_4-50	50	4	6		52879.0	0.02%			1.00	1.72	15	3	2.71	NCLSLT
NBB076_4-50	50	4	6		51678.0	0.00%			1.98	3.08	20	4	5.06	NCLSLT
NBB086_4-50	50	4	6		52934.3	0.02%			1.28	1.23	10	2	2.51	NCLSLT
NBB096_4-50	50	4	6		60170.2	0.01%			1.26	0.99	10	2	2.24	NCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_4-50	50	4	12		110475.0	0.03%			6.32	56.53	40	7	62.86	NCLSLT
NBB0112_4-50	50	4	12		108504.4	0.03%			2.04	7.96	34	6	9.99	NCLSLT
NBB0212_4-50	50	4	12		108020.3	0.00%			4.48	19.65	45	8	24.12	NCLSLT
NBB0312_4-50	50	4	12		110204.5	0.03%			9.08	30.88	40	7	39.96	NCLSLT
NBB0412_4-50	50	4	12		109735.5	0.05%			10.10	33.72	23	4	43.82	NCLSLT
NBB0512_4-50	50	4	12		112023.4	0.01%			1.80	9.76	50	9	11.56	NCLSLT
NBB0612_4-50	50	4	12		104066.7	0.05%			1.83	6.14	40	7	7.97	NCLSLT
NBB0712_4-50	50	4	12		106648.1	0.04%			11.31	83.25	46	8	94.56	NCLSLT
NBB0812_4-50	50	4	12		106540.0	0.02%			4.15	6.51	34	6	10.66	NCLSLT
NBB0912_4-50	50	4	12		114395.1	0.01%			7.12	18.37	46	8	25.49	NCLSLT
NBB0018_4-50	50	4	18		160106.9	0.02%			12.34	22.27	44	6	34.60	NCLSLT
NBB0118_4-50	50	4	18		161838.4	0.01%			8.88	19.20	44	6	28.08	NCLSLT
NBB0218_4-50	50	4	18		162914.4	0.01%			15.99	22.12	30	4	38.11	NCLSLT
NBB0318_4-50	50	4	18		163420.7	0.06%			26.59	124.05	52	7	150.64	NCLSLT
NBB0418_4-50	50	4	18		166608.9	0.05%			32.16	181.67	74	10	213.83	NCLSLT
NBB0518_4-50	50	4	18		168115.2	0.02%			7.98	18.40	36	5	26.38	NCLSLT
NBB0618_4-50	50	4	18		156382.8	0.02%			6.58	15.32	36	5	21.91	NCLSLT
NBB0718_4-50	50	4	18		161837.2	0.08%			32.11	48.47	22	3	80.58	NCLSLT
NBB0818_4-50	50	4	18		157362.2	0.00%			4.27	11.32	44	6	15.60	NCLSLT
NBB0918_4-50	50	4	18		168537.8	0.00%			10.31	21.53	36	5	31.84	NCLSLT
NBB006_6-6	6	6	6		5717.1	0.00%			0.11	0.06	5	1	0.18	NCLSLT
NBB016_6-6	6	6	6		7371.0	0.15%			0.39	0.91	15	3	1.29	NCLSLT
NBB026_6-6	6	6	6		7014.1	0.00%			0.11	0.16	10	2	0.27	NCLSLT
NBB036_6-6	6	6	6		7459.7	0.00%			0.13	0.18	10	2	0.30	NCLSLT
NBB046_6-6	6	6	6		8193.7	0.30%			0.36	0.18	5	1	0.54	NCLSLT
NBB056_6-6	6	6	6		8078.2	0.13%			0.28	0.10	5	1	0.38	NCLSLT
NBB066_6-6	6	6	6		6775.2	0.01%			0.16	0.09	5	1	0.25	NCLSLT
NBB076_6-6	6	6	6		7827.1	0.00%			0.18	0.15	10	2	0.33	NCLSLT
NBB086_6-6	6	6	6		6726.0	0.00%			0.13	0.06	5	1	0.19	NCLSLT
NBB096_6-6	6	6	6		7615.0	0.18%			0.47	0.57	10	2	1.04	NCLSLT
NBB0012_6-6	6	6	12		12202.8	0.00%			0.22	0.60	28	5	0.82	NCLSLT
NBB0112_6-6	6	6	12		14401.9	0.00%			0.45	1.10	11	2	1.55	NCLSLT
NBB0212_6-6	6	6	12		14369.1	0.02%			0.54	1.28	28	5	1.82	NCLSLT
NBB0312_6-6	6	6	12		14878.2	0.00%			0.50	1.69	28	5	2.19	NCLSLT
NBB0412_6-6	6	6	12		15154.8	0.12%			0.66	1.29	11	2	1.95	NCLSLT
NBB0512_6-6	6	6	12		14836.7	0.00%			0.68	1.74	23	4	2.42	NCLSLT
NBB0612_6-6	6	6	12		12876.5	0.00%			0.60	2.59	28	5	3.18	NCLSLT
NBB0712_6-6	6	6	12		15322.9	0.00%			0.29	0.85	23	4	1.15	NCLSLT
NBB0812_6-6	6	6	12		12700.8	0.01%			0.55	0.75	17	3	1.30	NCLSLT
NBB0912_6-6	6	6	12		14404.3	0.04%			0.66	2.21	17	3	2.87	NCLSLT
NBB0018_6-6	6	6	18		18070.8	0.00%			0.38	0.64	22	3	1.02	NCLSLT
NBB0218_6-6	6	6	18		20155.6	0.00%			1.36	4.27	44	6	5.63	NCLSLT
NBB0318_6-6	6	6	18		20743.5	0.00%			0.70	1.56	22	3	2.25	NCLSLT
NBB0418_6-6	6	6	18		22538.6	0.06%			1.27	4.29	36	5	5.56	NCLSLT
NBB0518_6-6	6	6	18		22527.2	0.07%			1.39	3.31	30	4	4.70	NCLSLT
NBB0618_6-6	6	6	18		20306.9	0.00%			2.54	5.67	30	4	8.22	NCLSLT
NBB0718_6-6	6	6	18		22124.2	0.01%			1.05	2.03	30	4	3.08	NCLSLT
NBB0818_6-6	6	6	18		20380.2	0.23%			1.38	2.07	22	3	3.45	NCLSLT
NBB0918_6-6	6	6	18		21824.3	0.02%			1.54	8.17	36	5	9.71	NCLSLT
NBB006_6-12	12	6	6		12828.8	0.00%			0.41	0.46	10	2	0.88	NCLSLT
NBB016_6-12	12	6	6		13173.1	0.07%			1.10	0.81	10	2	1.90	NCLSLT
NBB026_6-12	12	6	6		12159.0	0.03%			0.43	0.27	5	1	0.70	NCLSLT
NBB036_6-12	12	6	6		13017.9	0.00%			0.20	0.31	10	2	0.51	NCLSLT
NBB046_6-12	12	6	6		12812.2	0.00%			0.39	0.43	10	2	0.81	NCLSLT
NBB056_6-12	12	6	6		12413.3	0.02%			0.33	0.48	10	2	0.82	NCLSLT
NBB066_6-12	12	6	6		11735.0	0.06%			0.47	0.47	10	2	0.94	NCLSLT
NBB076_6-12	12	6	6		13651.8	0.05%			1.36	2.29	20	4	3.65	NCLSLT
NBB086_6-12	12	6	6		13544.5	0.12%			0.62	0.91	10	2	1.53	NCLSLT
NBB096_6-12	12	6	6		14442.4	0.11%			0.58	0.58	10	2	1.16	NCLSLT
NBB0012_6-12	12	6	12		24289.2	0.00%			0.94	4.15	28	5	5.09	NCLSLT
NBB0112_6-12	12	6	12		25782.9	0.00%			1.12	5.92	34	6	7.04	NCLSLT
NBB0212_6-12	12	6	12		24290.4	0.01%			3.08	15.26	22	4	18.34	NCLSLT
NBB0312_6-12	12	6	12		26662.3	0.00%			0.98	4.13	28	5	5.11	NCLSLT
NBB0412_6-12	12	6	12		25092.1	0.00%			0.74	2.15	17	3	2.89	NCLSLT
NBB0512_6-12	12	6	12		26407.6	0.00%			1.16	11.25	33	6	12.41	NCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0612_6-12	12	6	12		23721.8	0.00%			1.50	9.13	39	7	10.64	NCLSLT
NBB0712_6-12	12	6	12		28198.8	0.07%			3.26	15.49	23	4	18.76	NCLSLT
NBB0812_6-12	12	6	12		26080.8	0.17%			3.11	8.01	17	3	11.12	NCLSLT
NBB0912_6-12	12	6	12		27503.9	0.00%			1.61	3.89	17	3	5.50	NCLSLT
NBB0018_6-12	12	6	18		36608.8	0.00%			2.41	8.13	28	4	10.54	NCLSLT
NBB0118_6-12	12	6	18		41384.9	0.07%			4.62	9.61	22	3	14.22	NCLSLT
NBB0218_6-12	12	6	18		37074.7	0.05%			2.91	11.31	30	4	14.21	NCLSLT
NBB0318_6-12	12	6	18		38612.3	0.00%			2.02	4.25	22	3	6.26	NCLSLT
NBB0418_6-12	12	6	18		37150.4	0.00%			1.89	7.26	36	5	9.15	NCLSLT
NBB0518_6-12	12	6	18		40706.1	0.02%			2.67	5.92	22	3	8.59	NCLSLT
NBB0618_6-12	12	6	18		37561.5	0.10%			8.83	31.51	22	3	40.34	NCLSLT
NBB0718_6-12	12	6	18		41765.9	0.23%			19.89	45.37	30	4	65.27	NCLSLT
NBB0818_6-12	12	6	18		39695.1	0.28%			23.23	60.17	38	5	83.40	NCLSLT
NBB0918_6-12	12	6	18		41506.7	0.16%			9.47	54.21	36	5	63.68	NCLSLT
NBB006_6-25	25	6	6		25741.9	0.05%			8.50	15.61	15	3	24.11	NCLSLT
NBB016_6-25	25	6	6		25450.3	0.04%			2.02	1.55	5	1	3.57	NCLSLT
NBB026_6-25	25	6	6		26842.7	0.06%			0.80	1.10	10	2	1.90	NCLSLT
NBB036_6-25	25	6	6		26883.9	0.06%			4.79	7.47	15	3	12.27	NCLSLT
NBB046_6-25	25	6	6		28624.4	0.24%			11.76	17.70	10	2	29.46	NCLSLT
NBB056_6-25	25	6	6		26352.2	0.02%			1.85	1.99	10	2	3.85	NCLSLT
NBB066_6-25	25	6	6		25363.9	0.00%			0.85	1.55	10	2	2.40	NCLSLT
NBB076_6-25	25	6	6		28026.4	0.00%			1.51	0.74	5	1	2.25	NCLSLT
NBB086_6-25	25	6	6		26727.7	0.04%			3.68	3.51	15	3	7.19	NCLSLT
NBB096_6-25	25	6	6		26421.6	0.02%			1.29	1.66	10	2	2.96	NCLSLT
NBB0012_6-25	25	6	12		52546.9	0.13%			16.09	78.84	28	5	94.94	NCLSLT
NBB0112_6-25	25	6	12		52726.0	0.16%			20.22	120.39	45	8	140.61	NCLSLT
NBB0212_6-25	25	6	12		54091.5	0.09%			7.46	30.99	40	7	38.45	NCLSLT
NBB0312_6-25	25	6	12		52572.3	0.21%			17.87	46.45	17	3	64.33	NCLSLT
NBB0412_6-25	25	6	12		56127.8	0.19%			25.14	189.26	51	9	214.40	NCLSLT
NBB0512_6-25	25	6	12		51909.9	0.12%			13.40	51.70	28	5	65.10	NCLSLT
NBB0612_6-25	25	6	12		51037.6	0.00%			1.66	3.27	17	3	4.93	NCLSLT
NBB0712_6-25	25	6	12		52837.9	0.08%			14.34	48.70	46	8	63.04	NCLSLT
NBB0812_6-25	25	6	12		51275.6	0.00%			11.28	18.61	29	5	29.89	NCLSLT
NBB0912_6-25	25	6	12		53718.0	0.04%			9.19	39.24	28	5	48.43	NCLSLT
NBB0018_6-25	25	6	18		76621.7	0.26%			39.91	209.81	36	5	249.72	NCLSLT
NBB0118_6-25	25	6	18		79519.5	0.10%			30.77	98.88	44	6	129.65	NCLSLT
NBB0218_6-25	25	6	18		81783.5	0.06%			20.14	18.43	22	3	38.58	NCLSLT
NBB0318_6-25	25	6	18		79992.4	0.24%			62.86	283.65	44	6	346.51	NCLSLT
NBB0418_6-25	25	6	18		85074.6	0.15%			49.48	356.22	74	10	405.70	NCLSLT
NBB0518_6-25	25	6	18		81136.4	0.11%			31.43	55.60	22	3	87.03	NCLSLT
NBB0618_6-25	25	6	18		76376.2	0.00%			6.88	8.45	22	3	15.32	NCLSLT
NBB0718_6-25	25	6	18		77900.3	0.12%			36.89	66.51	22	3	103.40	NCLSLT
NBB0818_6-25	25	6	18		75247.2	0.08%			25.52	60.64	30	4	86.16	NCLSLT
NBB0918_6-25	25	6	18		81477.2	0.07%			20.09	49.32	36	5	69.41	NCLSLT
NBB006_6-50	50	6	6		50636.5	0.00%			4.23	8.42	15	3	12.65	NCLSLT
NBB016_6-50	50	6	6		50694.8	0.02%			3.93	3.66	15	3	7.59	NCLSLT
NBB026_6-50	50	6	6		52247.3	0.05%			8.36	36.52	25	5	44.87	NCLSLT
NBB036_6-50	50	6	6		51745.7	0.00%			2.12	3.40	15	3	5.52	NCLSLT
NBB046_6-50	50	6	6		54133.1	0.15%			7.34	19.50	15	3	26.84	NCLSLT
NBB056_6-50	50	6	6		52831.8	0.02%			8.04	8.98	15	3	17.02	NCLSLT
NBB066_6-50	50	6	6		52052.4	0.03%			7.56	6.78	10	2	14.34	NCLSLT
NBB076_6-50	50	6	6		54049.2	0.05%			5.50	1.64	10	2	7.14	NCLSLT
NBB086_6-50	50	6	6		50953.0	0.01%			7.38	1.50	10	2	8.88	NCLSLT
NBB096_6-50	50	6	6		50722.4	0.02%			2.52	4.18	15	3	6.70	NCLSLT
NBB0012_6-50	50	6	12		102554.7	0.02%			9.07	30.81	28	5	39.88	NCLSLT
NBB0112_6-50	50	6	12		101610.0	0.03%			18.29	44.78	40	7	63.07	NCLSLT
NBB0212_6-50	50	6	12		105228.2	0.07%			33.88	128.44	28	5	162.32	NCLSLT
NBB0312_6-50	50	6	12		102662.9	0.04%			10.77	63.84	34	6	74.62	NCLSLT
NBB0412_6-50	50	6	12		109871.1	0.08%			35.73	150.10	34	6	185.83	NCLSLT
NBB0512_6-50	50	6	12		105497.5	0.06%			16.12	89.49	40	7	105.61	NCLSLT
NBB0612_6-50	50	6	12		102232.5	0.12%			29.88	149.37	34	6	179.24	NCLSLT
NBB0712_6-50	50	6	12		107639.7	0.04%			15.13	56.76	34	6	71.89	NCLSLT
NBB0812_6-50	50	6	12		99984.8	0.03%			10.72	41.52	28	5	52.24	NCLSLT
NBB0912_6-50	50	6	12		102432.3	0.04%			16.99	113.19	63	11	130.18	NCLSLT
NBB0018_6-50	50	6	18		152972.0	0.06%			38.94	150.56	44	6	189.50	NCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_6-50	50	6	18		151120.1	0.04%			39.37	58.75	22	3	98.12	NCLSLT
NBB0218_6-50	50	6	18		154644.7	0.07%			54.85	257.92	54	7	312.77	NCLSLT
NBB0318_6-50	50	6	18		154348.5	0.03%			32.46	129.36	60	8	161.82	NCLSLT
NBB0418_6-50	50	6	18		164995.6	0.07%			71.20	267.95	60	8	339.15	NCLSLT
NBB0518_6-50	50	6	18		155567.4	0.09%			53.72	175.98	58	8	229.70	NCLSLT
NBB0618_6-50	50	6	18		154581.3	0.13%			68.91	377.31	52	7	446.22	NCLSLT
NBB0718_6-50	50	6	18		159213.7	0.03%			47.03	219.65	66	9	266.68	NCLSLT
NBB0818_6-50	50	6	18		151171.5	0.04%			33.81	115.23	52	7	149.04	NCLSLT
NBB0918_6-50	50	6	18		154287.1	0.03%			46.73	78.32	36	5	125.04	NCLSLT
AAA006_2-6	6	2	6		14136.5	0.00%			0.16	0.10	10	2	0.25	TCHSHT
AAA016_2-6	6	2	6		11879.1	2.24%			0.18	0.05	5	1	0.23	TCHSHT
AAA026_2-6	6	2	6		14956.5	0.00%			0.10	0.12	10	2	0.22	TCHSHT
AAA036_2-6	6	2	6		16398.5	0.00%			0.05	0.04	5	1	0.09	TCHSHT
AAA046_2-6	6	2	6		18079.7	4.06%			0.24	0.41	10	2	0.65	TCHSHT
AAA056_2-6	6	2	6		16983.2	0.00%			0.15	0.18	10	2	0.33	TCHSHT
AAA066_2-6	6	2	6		17629.2	4.76%			0.16	0.39	15	3	0.56	TCHSHT
AAA076_2-6	6	2	6		17900.2	3.47%			0.20	0.11	5	1	0.31	TCHSHT
AAA086_2-6	6	2	6		13094.4	0.00%			0.09	0.06	10	2	0.15	TCHSHT
AAA096_2-6	6	2	6		13344.2	1.46%			0.12	0.11	10	2	0.23	TCHSHT
AAA0012_2-6	6	2	12		24649.3	0.36%			0.29	1.36	40	7	1.66	TCHSHT
AAA0112_2-6	6	2	12		24282.6	0.12%			0.41	1.13	28	5	1.55	TCHSHT
AAA0212_2-6	6	2	12		27472.1	0.00%			0.18	0.22	11	2	0.40	TCHSHT
AAA0412_2-6	6	2	12		28819.1	0.90%			0.51	2.90	45	8	3.42	TCHSHT
AAA0512_2-6	6	2	12		31917.5	0.76%			0.25	1.17	34	6	1.43	TCHSHT
AAA0612_2-6	6	2	12		29177.5	1.14%			0.26	0.62	17	3	0.88	TCHSHT
AAA0712_2-6	6	2	12		27736.8	1.03%			0.32	1.52	34	6	1.83	TCHSHT
AAA0812_2-6	6	2	12		22650.3	0.69%			0.21	0.58	23	4	0.80	TCHSHT
AAA0912_2-6	6	2	12		27817.1	0.21%			0.34	1.11	22	4	1.45	TCHSHT
AAA0018_2-6	6	2	18		34089.0	1.36%			0.86	1.89	22	3	2.76	TCHSHT
AAA0118_2-6	6	2	18		34699.0	1.47%			0.63	2.68	30	4	3.31	TCHSHT
AAA0218_2-6	6	2	18		40534.1	2.09%			0.63	1.59	36	5	2.22	TCHSHT
AAA0418_2-6	6	2	18		37482.5	0.72%			0.64	1.17	30	4	1.81	TCHSHT
AAA0518_2-6	6	2	18		43339.5	1.40%			0.49	0.94	22	3	1.43	TCHSHT
AAA0618_2-6	6	2	18		40150.1	1.70%			0.54	2.37	52	7	2.91	TCHSHT
AAA0718_2-6	6	2	18		39900.9	0.70%			0.48	1.41	30	4	1.89	TCHSHT
AAA0818_2-6	6	2	18		32199.5	0.55%			0.46	1.10	30	4	1.56	TCHSHT
AAA0918_2-6	6	2	18		36536.5	0.71%			0.70	2.57	44	6	3.27	TCHSHT
AAA006_2-12	12	2	6		22326.6	0.13%			0.18	0.09	5	1	0.27	TCHSHT
AAA016_2-12	12	2	6		25513.8	0.00%			0.19	0.09	5	1	0.28	TCHSHT
AAA026_2-12	12	2	6		27431.5	1.85%			0.32	0.54	10	2	0.86	TCHSHT
AAA036_2-12	12	2	6		30036.5	0.71%			0.33	0.39	15	3	0.72	TCHSHT
AAA046_2-12	12	2	6		26165.3	0.93%			0.25	0.11	5	1	0.35	TCHSHT
AAA056_2-12	12	2	6		30002.2	0.46%			0.28	0.19	10	2	0.47	TCHSHT
AAA066_2-12	12	2	6		26342.1	0.62%			0.19	0.11	5	1	0.30	TCHSHT
AAA076_2-12	12	2	6		26098.5	0.00%			0.19	0.06	5	1	0.25	TCHSHT
AAA086_2-12	12	2	6		24582.2	0.00%			0.21	0.14	5	1	0.36	TCHSHT
AAA096_2-12	12	2	6		28332.6	0.66%			0.43	0.23	5	1	0.66	TCHSHT
AAA0012_2-12	12	2	12		42085.1	0.00%			0.67	4.62	45	8	5.29	TCHSHT
AAA0112_2-12	12	2	12		42553.5	0.72%			0.57	2.82	34	6	3.40	TCHSHT
AAA0212_2-12	12	2	12		45029.3	0.39%			0.75	3.96	28	5	4.70	TCHSHT
AAA0312_2-12	12	2	12		53967.2	0.71%			1.53	3.96	40	7	5.49	TCHSHT
AAA0412_2-12	12	2	12		45684.7	0.26%			0.42	2.23	45	8	2.65	TCHSHT
AAA0512_2-12	12	2	12		53735.2	0.99%			1.07	1.80	17	3	2.86	TCHSHT
AAA0612_2-12	12	2	12		46651.7	0.43%			0.56	1.49	23	4	2.05	TCHSHT
AAA0712_2-12	12	2	12		49772.4	0.49%			0.62	2.01	22	4	2.63	TCHSHT
AAA0812_2-12	12	2	12		42155.4	0.06%			0.47	0.74	17	3	1.20	TCHSHT
AAA0912_2-12	12	2	12		52330.8	1.04%			0.80	3.80	17	3	4.60	TCHSHT
AAA0118_2-12	12	2	18		63269.8	0.68%			1.77	3.99	36	5	5.76	TCHSHT
AAA0218_2-12	12	2	18		66847.3	1.19%			2.66	19.39	68	9	22.05	TCHSHT
AAA0318_2-12	12	2	18		77259.3	1.79%			1.17	3.49	22	3	4.66	TCHSHT
AAA0418_2-12	12	2	18		68352.8	0.58%			1.85	3.53	30	4	5.37	TCHSHT
AAA0518_2-12	12	2	18		75011.7	0.82%			3.37	10.23	44	6	13.60	TCHSHT
AAA0618_2-12	12	2	18		67618.1	0.77%			1.42	14.25	52	7	15.67	TCHSHT
AAA0718_2-12	12	2	18		68965.4	1.01%			1.07	2.60	30	4	3.67	TCHSHT
AAA0818_2-12	12	2	18		65846.2	0.27%			2.59	13.16	52	7	15.74	TCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0918_2-12	12	2	18		74579.3	1.09%			5.94	20.37	30	4	26.31	TCHSHT
AAA006_2-25	25	2	6		49600.1	0.73%			0.61	0.30	5	1	0.91	TCHSHT
AAA016_2-25	25	2	6		50065.0	0.23%			0.44	0.30	10	2	0.74	TCHSHT
AAA026_2-25	25	2	6		53890.8	0.91%			0.67	0.54	10	2	1.21	TCHSHT
AAA036_2-25	25	2	6		55276.6	0.75%			0.43	0.19	5	1	0.62	TCHSHT
AAA046_2-25	25	2	6		56799.2	1.08%			0.65	0.79	10	2	1.44	TCHSHT
AAA056_2-25	25	2	6		59545.1	1.26%			0.61	0.45	10	2	1.06	TCHSHT
AAA066_2-25	25	2	6		47504.2	0.42%			0.55	0.31	5	1	0.86	TCHSHT
AAA076_2-25	25	2	6		53452.2	0.27%			0.37	0.30	5	1	0.67	TCHSHT
AAA086_2-25	25	2	6		57044.4	0.73%			0.65	0.90	10	2	1.55	TCHSHT
AAA096_2-25	25	2	6		63010.7	0.61%			0.86	0.47	5	1	1.33	TCHSHT
AAA0012_2-25	25	2	12		90649.0	0.33%			3.75	17.05	46	8	20.80	TCHSHT
AAA0112_2-25	25	2	12		96443.4	0.65%			2.18	5.59	23	4	7.77	TCHSHT
AAA0212_2-25	25	2	12		93761.7	1.20%			5.79	37.50	68	12	43.29	TCHSHT
AAA0312_2-25	25	2	12		97663.9	1.41%			4.12	29.75	28	5	33.88	TCHSHT
AAA0412_2-25	25	2	12		96339.6	0.64%			3.28	25.30	45	8	28.58	TCHSHT
AAA0512_2-25	25	2	12		109676.6	1.34%			5.21	23.72	23	4	28.93	TCHSHT
AAA0612_2-25	25	2	12		92196.7	0.19%			2.38	17.72	51	9	20.11	TCHSHT
AAA0712_2-25	25	2	12		97703.8	0.84%			2.23	6.43	17	3	8.65	TCHSHT
AAA0812_2-25	25	2	12		100811.0	0.34%			4.86	41.31	57	10	46.16	TCHSHT
AAA0912_2-25	25	2	12		106558.5	0.92%			6.36	63.17	45	8	69.53	TCHSHT
AAA0018_2-25	25	2	18		131078.3	0.51%			7.03	32.48	38	5	39.50	TCHSHT
AAA0118_2-25	25	2	18		134822.3	0.57%			8.12	39.47	46	6	47.59	TCHSHT
AAA0218_2-25	25	2	18		133055.1	0.91%			24.65	59.42	52	7	84.07	TCHSHT
AAA0318_2-25	25	2	18		144835.1	0.33%			12.16	27.61	44	6	39.77	TCHSHT
AAA0418_2-25	25	2	18		139681.9	0.74%			16.67	63.21	66	9	79.87	TCHSHT
AAA0518_2-25	25	2	18		152529.2	1.00%			25.11	106.28	82	11	131.38	TCHSHT
AAA0618_2-25	25	2	18		129181.9	0.16%			7.90	67.68	88	12	75.58	TCHSHT
AAA0718_2-25	25	2	18		144199.0	0.79%			20.08	62.79	38	5	82.87	TCHSHT
AAA0818_2-25	25	2	18		142231.0	0.93%			20.39	66.83	54	7	87.22	TCHSHT
AAA0918_2-25	25	2	18		153225.6	1.05%			17.56	40.86	46	6	58.42	TCHSHT
AAA006_2-50	50	2	6		97284.5	0.21%			1.25	1.22	15	3	2.47	TCHSHT
AAA016_2-50	50	2	6		100767.4	0.45%			0.72	1.33	10	2	2.05	TCHSHT
AAA026_2-50	50	2	6		99132.4	0.55%			1.90	0.43	5	1	2.33	TCHSHT
AAA036_2-50	50	2	6		106331.4	0.20%			0.69	1.10	10	2	1.80	TCHSHT
AAA046_2-50	50	2	6		113459.5	0.77%			3.36	2.07	10	2	5.43	TCHSHT
AAA056_2-50	50	2	6		110559.2	0.39%			2.97	15.86	20	4	18.83	TCHSHT
AAA066_2-50	50	2	6		99873.4	0.88%			1.50	2.71	15	3	4.21	TCHSHT
AAA076_2-50	50	2	6		106708.3	0.44%			1.96	1.86	15	3	3.82	TCHSHT
AAA086_2-50	50	2	6		103013.0	0.13%			1.34	1.03	10	2	2.37	TCHSHT
AAA096_2-50	50	2	6		108305.5	0.39%			2.25	1.63	10	2	3.88	TCHSHT
AAA0012_2-50	50	2	12		180346.4	0.28%			9.28	50.47	57	10	59.76	TCHSHT
AAA0112_2-50	50	2	12		187023.9	0.22%			5.85	28.54	63	11	34.39	TCHSHT
AAA0212_2-50	50	2	12		181363.1	0.28%			10.09	66.43	40	7	76.52	TCHSHT
AAA0312_2-50	50	2	12		193175.6	0.36%			12.60	55.16	34	6	67.76	TCHSHT
AAA0412_2-50	50	2	12		201595.5	0.58%			26.10	143.50	40	7	169.60	TCHSHT
AAA0512_2-50	50	2	12		198804.8	0.58%			12.55	45.02	34	6	57.57	TCHSHT
AAA0612_2-50	50	2	12		177466.5	0.16%			6.17	43.76	56	10	49.94	TCHSHT
AAA0712_2-50	50	2	12		190955.3	0.47%			27.88	121.13	51	9	149.01	TCHSHT
AAA0812_2-50	50	2	12		183522.6	0.28%			14.02	35.46	34	6	49.48	TCHSHT
AAA0912_2-50	50	2	12		195399.4	0.26%			19.18	123.00	69	12	142.18	TCHSHT
AAA0018_2-50	50	2	18		262290.7	0.18%			25.63	70.55	52	7	96.18	TCHSHT
AAA0118_2-50	50	2	18		270536.3	0.21%			24.54	118.77	76	10	143.31	TCHSHT
AAA0218_2-50	50	2	18		261277.7	0.24%			28.12	186.44	98	13	214.56	TCHSHT
AAA0318_2-50	50	2	18		282788.5	0.28%			21.34	36.74	38	5	58.08	TCHSHT
AAA0418_2-50	50	2	18		293660.7	0.66%			57.11	286.36	58	8	343.47	TCHSHT
AAA0518_2-50	50	2	18		288011.1	0.25%			24.98	124.34	52	7	149.32	TCHSHT
AAA0618_2-50	50	2	18		260053.1	0.34%			27.77	99.61	52	7	127.38	TCHSHT
AAA0718_2-50	50	2	18		274564.1	0.36%			35.42	197.73	60	8	233.14	TCHSHT
AAA0818_2-50	50	2	18		266350.5	0.32%			23.90	100.96	46	6	124.87	TCHSHT
AAA0918_2-50	50	2	18		284268.4	0.29%			32.08	180.33	68	9	212.42	TCHSHT
AAA006_4-6	6	4	6		9819.4	1.84%			0.17	0.09	5	1	0.25	TCHSHT
AAA016_4-6	6	4	6		12351.3	0.74%			0.35	0.29	5	1	0.63	TCHSHT
AAA026_4-6	6	4	6		12294.8	1.84%			0.16	0.10	5	1	0.26	TCHSHT
AAA036_4-6	6	4	6		12727.8	0.89%			0.11	0.10	10	2	0.20	TCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA046_4-6	6	4	6		10831.3	1.31%			0.11	0.11	10	2	0.22	TCHSHT
AAA056_4-6	6	4	6		15481.5	0.62%			0.06	0.05	5	1	0.11	TCHSHT
AAA066_4-6	6	4	6		12598.7	2.47%			0.19	0.09	5	1	0.28	TCHSHT
AAA076_4-6	6	4	6		13765.9	0.00%			0.08	0.10	10	2	0.18	TCHSHT
AAA086_4-6	6	4	6		10116.2	1.75%			0.11	0.11	10	2	0.22	TCHSHT
AAA096_4-6	6	4	6		14770.1	0.00%			0.13	0.08	10	2	0.21	TCHSHT
AAA0012_4-6	6	4	12		17924.9	0.56%			0.32	0.85	17	3	1.17	TCHSHT
AAA0112_4-6	6	4	12		25476.2	1.13%			1.29	8.66	39	7	9.95	TCHSHT
AAA0212_4-6	6	4	12		23051.1	0.00%			0.47	2.09	34	6	2.56	TCHSHT
AAA0312_4-6	6	4	12		25613.2	0.23%			0.28	0.51	28	5	0.79	TCHSHT
AAA0412_4-6	6	4	12		23967.4	2.09%			0.60	2.20	28	5	2.80	TCHSHT
AAA0512_4-6	6	4	12		30700.6	1.45%			0.24	0.43	17	3	0.66	TCHSHT
AAA0612_4-6	6	4	12		21760.8	0.90%			0.29	0.71	29	5	1.00	TCHSHT
AAA0712_4-6	6	4	12		24707.1	1.03%			0.33	0.66	17	3	0.99	TCHSHT
AAA0812_4-6	6	4	12		21130.5	0.00%			0.34	0.94	17	3	1.28	TCHSHT
AAA0912_4-6	6	4	12		26164.1	0.64%			0.20	0.78	34	6	0.98	TCHSHT
AAA0018_4-6	6	4	18		27492.4	0.43%			1.09	1.98	30	4	3.07	TCHSHT
AAA0118_4-6	6	4	18		33319.3	0.00%			1.11	4.54	52	7	5.65	TCHSHT
AAA0218_4-6	6	4	18		33404.2	0.68%			1.27	2.88	44	6	4.15	TCHSHT
AAA0318_4-6	6	4	18		38973.9	0.12%			1.00	3.30	44	6	4.30	TCHSHT
AAA0418_4-6	6	4	18		35239.3	1.33%			1.14	2.09	22	3	3.23	TCHSHT
AAA0518_4-6	6	4	18		43059.6	0.61%			0.57	1.99	36	5	2.56	TCHSHT
AAA0618_4-6	6	4	18		33541.7	0.62%			0.64	1.68	42	6	2.32	TCHSHT
AAA0718_4-6	6	4	18		36952.3	0.07%			0.54	0.75	22	3	1.29	TCHSHT
AAA0818_4-6	6	4	18		28076.0	0.51%			0.50	1.39	36	5	1.89	TCHSHT
AAA0918_4-6	6	4	18		38341.4	0.25%			0.82	2.04	44	6	2.86	TCHSHT
AAA006_4-12	12	4	6		20637.5	1.01%			0.43	0.20	5	1	0.63	TCHSHT
AAA016_4-12	12	4	6		24358.0	2.46%			0.79	1.25	10	2	2.04	TCHSHT
AAA026_4-12	12	4	6		18888.8	0.37%			0.24	0.16	10	2	0.41	TCHSHT
AAA036_4-12	12	4	6		20752.8	0.15%			0.42	0.17	10	2	0.59	TCHSHT
AAA046_4-12	12	4	6		23542.6	2.07%			0.36	0.33	10	2	0.69	TCHSHT
AAA056_4-12	12	4	6		24293.4	0.51%			0.26	0.38	10	2	0.64	TCHSHT
AAA066_4-12	12	4	6		21472.7	1.32%			0.20	0.11	5	1	0.31	TCHSHT
AAA076_4-12	12	4	6		21504.9	0.27%			0.52	0.29	5	1	0.82	TCHSHT
AAA086_4-12	12	4	6		22780.6	0.45%			0.27	0.13	5	1	0.40	TCHSHT
AAA096_4-12	12	4	6		22519.5	1.75%			0.57	0.20	5	1	0.77	TCHSHT
AAA0012_4-12	12	4	12		36637.1	0.15%			1.00	12.02	34	6	13.02	TCHSHT
AAA0112_4-12	12	4	12		41928.4	1.31%			1.82	24.58	51	9	26.40	TCHSHT
AAA0212_4-12	12	4	12		37481.9	0.26%			0.90	5.46	28	5	6.36	TCHSHT
AAA0312_4-12	12	4	12		41279.6	1.30%			0.94	8.52	56	10	9.46	TCHSHT
AAA0412_4-12	12	4	12		42739.4	0.53%			1.29	9.93	51	9	11.22	TCHSHT
AAA0512_4-12	12	4	12		46077.4	0.85%			1.21	3.30	34	6	4.52	TCHSHT
AAA0612_4-12	12	4	12		40097.3	0.20%			1.21	6.65	46	8	7.86	TCHSHT
AAA0712_4-12	12	4	12		43244.0	1.40%			6.86	22.84	23	4	29.70	TCHSHT
AAA0812_4-12	12	4	12		41963.0	0.33%			0.58	1.87	28	5	2.44	TCHSHT
AAA0912_4-12	12	4	12		45678.4	2.23%			4.17	46.61	45	8	50.79	TCHSHT
AAA0018_4-12	12	4	18		54566.0	0.26%			3.68	25.02	90	12	28.70	TCHSHT
AAA0118_4-12	12	4	18		61101.9	1.09%			11.23	63.95	60	8	75.18	TCHSHT
AAA0218_4-12	12	4	18		53804.8	0.00%			1.11	2.07	30	4	3.18	TCHSHT
AAA0318_4-12	12	4	18		62702.5	1.31%			4.68	16.28	36	5	20.95	TCHSHT
AAA0418_4-12	12	4	18		63594.8	1.45%			11.30	37.02	36	5	48.32	TCHSHT
AAA0518_4-12	12	4	18		67402.6	1.66%			5.22	12.78	52	7	18.00	TCHSHT
AAA0618_4-12	12	4	18		59769.8	0.76%			1.58	7.38	52	7	8.95	TCHSHT
AAA0718_4-12	12	4	18		66357.2	1.53%			14.61	50.48	30	4	65.09	TCHSHT
AAA0818_4-12	12	4	18		63684.2	0.39%			5.72	24.85	66	9	30.57	TCHSHT
AAA0918_4-12	12	4	18		64428.8	1.63%			9.46	41.65	52	7	51.12	TCHSHT
AAA006_4-25	25	4	6		38177.2	1.20%			1.95	1.05	10	2	3.00	TCHSHT
AAA016_4-25	25	4	6		46492.8	0.76%			1.40	1.14	10	2	2.53	TCHSHT
AAA026_4-25	25	4	6		43959.6	1.05%			4.48	2.67	10	2	7.14	TCHSHT
AAA036_4-25	25	4	6		43346.9	0.39%			5.70	2.04	15	3	7.74	TCHSHT
AAA046_4-25	25	4	6		44545.0	0.75%			1.63	3.34	15	3	4.97	TCHSHT
AAA056_4-25	25	4	6		48312.0	0.66%			1.08	0.25	5	1	1.33	TCHSHT
AAA066_4-25	25	4	6		38990.1	1.72%			0.84	0.88	15	3	1.72	TCHSHT
AAA076_4-25	25	4	6		43954.4	0.63%			2.94	0.93	10	2	3.87	TCHSHT
AAA086_4-25	25	4	6		40595.0	0.39%			2.42	3.52	10	2	5.94	TCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA096_4-25	25	4	6		46928.7	1.32%			1.25	0.89	10	2	2.14	TCHSHT
AAA0012_4-25	25	4	12		75670.2	0.62%			10.11	25.38	23	4	35.49	TCHSHT
AAA0112_4-25	25	4	12		84305.6	1.12%			12.48	53.44	29	5	65.93	TCHSHT
AAA0212_4-25	25	4	12		80481.3	1.76%			21.44	76.25	23	4	97.69	TCHSHT
AAA0312_4-25	25	4	12		84095.3	0.64%			4.56	63.01	51	9	67.57	TCHSHT
AAA0412_4-25	25	4	12		84952.7	1.02%			11.38	40.72	40	7	52.10	TCHSHT
AAA0512_4-25	25	4	12		87767.6	0.57%			13.95	95.08	51	9	109.03	TCHSHT
AAA0612_4-25	25	4	12		74701.0	0.68%			2.33	19.10	34	6	21.43	TCHSHT
AAA0712_4-25	25	4	12		84420.7	0.63%			8.36	38.00	34	6	46.37	TCHSHT
AAA0812_4-25	25	4	12		79204.7	0.60%			12.88	92.36	51	9	105.24	TCHSHT
AAA0912_4-25	25	4	12		85124.1	0.27%			6.22	38.94	56	10	45.15	TCHSHT
AAA0018_4-25	25	4	18		109918.8	0.68%			14.05	93.90	60	8	107.95	TCHSHT
AAA0118_4-25	25	4	18		122501.3	1.12%			32.91	71.95	30	4	104.86	TCHSHT
AAA0218_4-25	25	4	18		118601.7	1.23%			45.16	141.17	52	7	186.33	TCHSHT
AAA0318_4-25	25	4	18		122561.9	0.70%			21.00	77.67	60	8	98.67	TCHSHT
AAA0418_4-25	25	4	18		125325.4	1.00%			22.30	75.49	60	8	97.79	TCHSHT
AAA0518_4-25	25	4	18		127061.9	0.70%			14.42	162.59	90	12	177.01	TCHSHT
AAA0618_4-25	25	4	18		111152.2	0.31%			7.66	47.25	52	7	54.91	TCHSHT
AAA0718_4-25	25	4	18		123173.9	0.55%			17.76	75.65	60	8	93.42	TCHSHT
AAA0818_4-25	25	4	18		113335.5	0.62%			17.81	62.15	38	5	79.96	TCHSHT
AAA0918_4-25	25	4	18		125096.8	0.36%			9.93	155.79	126	17	165.72	TCHSHT
AAA006_4-50	50	4	6		81728.5	0.05%			3.05	1.20	10	2	4.25	TCHSHT
AAA016_4-50	50	4	6		85021.1	0.20%			4.90	5.66	15	3	10.57	TCHSHT
AAA026_4-50	50	4	6		87511.6	0.53%			7.41	1.74	5	1	9.14	TCHSHT
AAA036_4-50	50	4	6		88685.6	0.84%			7.41	18.12	15	3	25.53	TCHSHT
AAA046_4-50	50	4	6		94764.6	0.49%			9.33	23.90	15	3	33.23	TCHSHT
AAA056_4-50	50	4	6		90013.5	0.65%			6.02	5.73	10	2	11.75	TCHSHT
AAA066_4-50	50	4	6		80127.0	0.30%			5.17	4.50	20	4	9.67	TCHSHT
AAA076_4-50	50	4	6		84223.7	0.72%			5.25	10.42	20	4	15.67	TCHSHT
AAA086_4-50	50	4	6		84256.8	0.56%			6.64	3.96	15	3	10.61	TCHSHT
AAA096_4-50	50	4	6		94803.8	0.12%			7.15	0.56	5	1	7.71	TCHSHT
AAA0012_4-50	50	4	12		160429.9	0.43%			17.89	99.64	40	7	117.53	TCHSHT
AAA0112_4-50	50	4	12		157758.7	0.22%			12.79	72.61	28	5	85.40	TCHSHT
AAA0212_4-50	50	4	12		159561.7	0.52%			19.06	71.35	35	6	90.41	TCHSHT
AAA0312_4-50	50	4	12		167018.1	0.42%			20.24	82.65	51	9	102.89	TCHSHT
AAA0412_4-50	50	4	12		172093.3	0.65%			29.07	136.33	52	9	165.40	TCHSHT
AAA0512_4-50	50	4	12		165902.9	0.57%			23.06	113.18	52	9	136.24	TCHSHT
AAA0612_4-50	50	4	12		150596.0	0.12%			6.92	19.13	34	6	26.05	TCHSHT
AAA0712_4-50	50	4	12		162744.0	0.44%			24.91	142.07	45	8	166.99	TCHSHT
AAA0812_4-50	50	4	12		157786.8	0.39%			23.14	109.77	51	9	132.91	TCHSHT
AAA0912_4-50	50	4	12		172957.7	0.23%			21.58	59.74	63	11	81.32	TCHSHT
AAA0018_4-50	50	4	18		229079.1	0.38%			27.08	177.23	90	12	204.32	TCHSHT
AAA0118_4-50	50	4	18		233024.0	0.31%			29.25	153.61	60	8	182.85	TCHSHT
AAA0218_4-50	50	4	18		238947.7	0.40%			46.05	146.24	38	5	192.29	TCHSHT
AAA0318_4-50	50	4	18		243878.3	0.29%			25.89	103.34	46	6	129.23	TCHSHT
AAA0418_4-50	50	4	18		254152.1	0.42%			30.62	104.64	38	5	135.25	TCHSHT
AAA0518_4-50	50	4	18		245176.3	0.46%			45.21	163.26	54	7	208.47	TCHSHT
AAA0618_4-50	50	4	18		224595.0	0.23%			20.53	81.10	58	8	101.63	TCHSHT
AAA0718_4-50	50	4	18		241648.9	0.39%			48.12	321.87	88	12	370.00	TCHSHT
AAA0818_4-50	50	4	18		228534.0	0.33%			30.38	84.12	38	5	114.51	TCHSHT
AAA0918_4-50	50	4	18		252362.7	0.29%			21.41	194.68	76	10	216.09	TCHSHT
AAA006_6-6	6	6	6		9775.2	1.76%			0.26	0.14	5	1	0.40	TCHSHT
AAA016_6-6	6	6	6		13439.4	2.35%			0.23	0.23	10	2	0.46	TCHSHT
AAA026_6-6	6	6	6		12213.0	0.00%			0.18	0.05	5	1	0.23	TCHSHT
AAA036_6-6	6	6	6		13913.0	0.00%			0.11	0.10	10	2	0.21	TCHSHT
AAA046_6-6	6	6	6		14312.3	1.80%			0.17	0.08	5	1	0.26	TCHSHT
AAA056_6-6	6	6	6		16936.8	3.30%			0.15	0.15	10	2	0.30	TCHSHT
AAA066_6-6	6	6	6		11768.6	1.60%			0.23	0.12	10	2	0.35	TCHSHT
AAA076_6-6	6	6	6		15493.1	0.93%			0.12	0.15	10	2	0.27	TCHSHT
AAA086_6-6	6	6	6		14788.0	1.37%			0.18	0.12	10	2	0.30	TCHSHT
AAA096_6-6	6	6	6		15921.1	0.00%			0.15	0.16	10	2	0.31	TCHSHT
AAA0012_6-6	6	6	12		20005.0	0.72%			0.93	2.85	34	6	3.78	TCHSHT
AAA0112_6-6	6	6	12		24462.1	0.95%			0.50	1.08	17	3	1.59	TCHSHT
AAA0212_6-6	6	6	12		24099.4	0.08%			0.38	0.86	23	4	1.25	TCHSHT
AAA0312_6-6	6	6	12		27379.4	0.54%			0.32	1.09	34	6	1.41	TCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0412_6-6	6	6	12		26971.9	0.35%			0.82	2.01	34	6	2.83	TCHSHT
AAA0512_6-6	6	6	12		28942.7	1.28%			0.93	2.14	39	7	3.07	TCHSHT
AAA0612_6-6	6	6	12		22968.7	0.54%			0.50	0.78	17	3	1.28	TCHSHT
AAA0712_6-6	6	6	12		29012.1	1.04%			0.48	3.49	39	7	3.98	TCHSHT
AAA0812_6-6	6	6	12		26739.6	0.57%			0.79	2.72	45	8	3.50	TCHSHT
AAA0912_6-6	6	6	12		30206.8	0.54%			0.41	1.33	39	7	1.74	TCHSHT
AAA0018_6-6	6	6	18		29222.0	0.52%			1.34	2.27	22	3	3.61	TCHSHT
AAA0218_6-6	6	6	18		32674.0	0.06%			0.85	1.20	22	3	2.05	TCHSHT
AAA0318_6-6	6	6	18		38451.6	0.96%			1.12	1.83	30	4	2.95	TCHSHT
AAA0418_6-6	6	6	18		39275.6	0.39%			1.80	3.92	52	7	5.72	TCHSHT
AAA0518_6-6	6	6	18		44364.7	1.46%			2.93	22.45	76	10	25.38	TCHSHT
AAA0618_6-6	6	6	18		33616.9	0.06%			0.72	2.62	44	6	3.35	TCHSHT
AAA0718_6-6	6	6	18		42307.1	0.88%			1.94	3.06	36	5	4.99	TCHSHT
AAA0818_6-6	6	6	18		42976.9	1.31%			1.51	4.49	50	7	6.00	TCHSHT
AAA0918_6-6	6	6	18		46310.7	0.90%			5.07	16.39	84	11	21.46	TCHSHT
AAA006_6-12	12	6	6		20776.8	0.97%			0.44	0.15	5	1	0.59	TCHSHT
AAA016_6-12	12	6	6		20892.8	0.21%			1.73	0.29	5	1	2.03	TCHSHT
AAA026_6-12	12	6	6		19600.4	0.23%			0.41	0.15	5	1	0.56	TCHSHT
AAA036_6-12	12	6	6		20856.3	1.52%			0.47	0.13	5	1	0.60	TCHSHT
AAA046_6-12	12	6	6		18843.9	0.12%			0.26	0.21	10	2	0.47	TCHSHT
AAA056_6-12	12	6	6		20474.6	1.28%			0.32	0.43	10	2	0.75	TCHSHT
AAA066_6-12	12	6	6		18539.9	1.13%			0.37	0.13	5	1	0.50	TCHSHT
AAA076_6-12	12	6	6		24506.2	2.18%			1.26	0.27	5	1	1.53	TCHSHT
AAA086_6-12	12	6	6		21175.4	1.10%			0.48	0.32	10	2	0.80	TCHSHT
AAA096_6-12	12	6	6		24049.4	0.29%			0.32	0.36	15	3	0.68	TCHSHT
AAA0012_6-12	12	6	12		38063.1	0.41%			1.33	4.13	34	6	5.46	TCHSHT
AAA0112_6-12	12	6	12		40336.2	0.59%			1.05	7.60	28	5	8.65	TCHSHT
AAA0212_6-12	12	6	12		38127.0	0.49%			5.60	22.27	22	4	27.86	TCHSHT
AAA0312_6-12	12	6	12		40649.4	0.21%			4.11	4.33	34	6	8.44	TCHSHT
AAA0412_6-12	12	6	12		36486.3	0.45%			1.47	6.19	23	4	7.66	TCHSHT
AAA0512_6-12	12	6	12		42561.3	1.52%			2.30	5.25	17	3	7.55	TCHSHT
AAA0612_6-12	12	6	12		34880.5	0.22%			0.89	8.52	85	15	9.41	TCHSHT
AAA0712_6-12	12	6	12		47807.7	1.73%			9.14	34.03	23	4	43.17	TCHSHT
AAA0812_6-12	12	6	12		39524.2	1.20%			4.16	18.42	28	5	22.58	TCHSHT
AAA0912_6-12	12	6	12		44542.3	1.17%			1.10	12.62	28	5	13.72	TCHSHT
AAA0018_6-12	12	6	18		57135.7	0.93%			4.03	17.56	44	6	21.59	TCHSHT
AAA0118_6-12	12	6	18		62567.1	1.25%			11.16	19.76	36	5	30.92	TCHSHT
AAA0218_6-12	12	6	18		56043.0	0.87%			7.08	12.72	52	7	19.80	TCHSHT
AAA0318_6-12	12	6	18		58213.4	0.85%			4.94	18.38	38	5	23.31	TCHSHT
AAA0418_6-12	12	6	18		53102.3	0.48%			2.37	6.41	22	3	8.78	TCHSHT
AAA0518_6-12	12	6	18		63446.2	1.32%			5.28	14.82	52	7	20.10	TCHSHT
AAA0618_6-12	12	6	18		54620.1	0.27%			4.23	6.79	44	6	11.02	TCHSHT
AAA0718_6-12	12	6	18		69369.1	1.78%			13.81	85.46	44	6	99.27	TCHSHT
AAA0818_6-12	12	6	18		58845.1	2.14%			8.58	11.77	22	3	20.35	TCHSHT
AAA0918_6-12	12	6	18		65761.9	0.48%			5.78	17.98	66	9	23.76	TCHSHT
AAA006_6-25	25	6	6		39911.6	0.38%			2.83	0.79	5	1	3.62	TCHSHT
AAA016_6-25	25	6	6		40504.3	1.20%			4.47	1.03	10	2	5.50	TCHSHT
AAA026_6-25	25	6	6		42263.1	0.99%			1.21	1.28	10	2	2.49	TCHSHT
AAA036_6-25	25	6	6		41153.5	0.33%			1.62	3.06	20	4	4.67	TCHSHT
AAA046_6-25	25	6	6		43919.6	1.85%			12.69	4.43	5	1	17.12	TCHSHT
AAA056_6-25	25	6	6		41034.1	1.36%			2.93	0.65	10	2	3.58	TCHSHT
AAA066_6-25	25	6	6		39606.1	0.93%			4.80	5.38	10	2	10.19	TCHSHT
AAA076_6-25	25	6	6		43200.4	0.63%			1.31	1.13	15	3	2.43	TCHSHT
AAA086_6-25	25	6	6		41231.3	0.77%			3.55	0.66	5	1	4.21	TCHSHT
AAA096_6-25	25	6	6		43051.9	1.21%			1.58	0.50	5	1	2.08	TCHSHT
AAA0012_6-25	25	6	12		77771.2	1.34%			13.86	120.18	68	12	134.04	TCHSHT
AAA0112_6-25	25	6	12		80256.7	1.29%			21.58	145.71	58	10	167.30	TCHSHT
AAA0212_6-25	25	6	12		80662.0	0.90%			14.63	63.34	45	8	77.97	TCHSHT
AAA0312_6-25	25	6	12		78641.9	1.35%			18.01	88.39	28	5	106.40	TCHSHT
AAA0412_6-25	25	6	12		81817.3	1.19%			14.94	111.71	45	8	126.66	TCHSHT
AAA0512_6-25	25	6	12		77344.0	0.88%			12.18	39.12	23	4	51.30	TCHSHT
AAA0612_6-25	25	6	12		75111.1	1.14%			9.25	84.91	51	9	94.15	TCHSHT
AAA0712_6-25	25	6	12		78458.2	0.55%			10.09	20.17	34	6	30.25	TCHSHT
AAA0812_6-25	25	6	12		76206.2	1.14%			13.56	89.69	45	8	103.25	TCHSHT
AAA0912_6-25	25	6	12		83122.1	0.98%			13.72	88.90	45	8	102.61	TCHSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0018_6-25	25	6	18		112498.5	1.04%			38.22	63.14	30	4	101.36	TCHSHT
AAA0118_6-25	25	6	18		118576.5	1.13%			32.43	71.92	30	4	104.36	TCHSHT
AAA0218_6-25	25	6	18		121171.1	0.91%			30.83	115.00	44	6	145.82	TCHSHT
AAA0318_6-25	25	6	18		117875.4	1.15%			46.31	192.38	52	7	238.69	TCHSHT
AAA0418_6-25	25	6	18		121341.1	0.77%			28.31	157.07	52	7	185.38	TCHSHT
AAA0518_6-25	25	6	18		118485.8	0.83%			22.50	100.77	52	7	123.27	TCHSHT
AAA0618_6-25	25	6	18		109830.2	0.95%			28.69	70.08	38	5	98.77	TCHSHT
AAA0718_6-25	25	6	18		115634.7	0.63%			17.01	72.42	58	8	89.43	TCHSHT
AAA0818_6-25	25	6	18		109897.2	1.16%			25.48	120.98	66	9	146.45	TCHSHT
AAA0918_6-25	25	6	18		123774.1	1.35%			36.08	132.05	52	7	168.13	TCHSHT
AAA006_6-50	50	6	6		75175.3	0.60%			3.87	5.54	10	2	9.41	TCHSHT
AAA016_6-50	50	6	6		77840.0	0.84%			9.20	5.25	15	3	14.45	TCHSHT
AAA026_6-50	50	6	6		80530.5	0.74%			22.56	26.96	10	2	49.52	TCHSHT
AAA036_6-50	50	6	6		78766.0	0.56%			11.85	7.92	10	2	19.77	TCHSHT
AAA046_6-50	50	6	6		81665.6	1.37%			28.82	33.46	15	3	62.28	TCHSHT
AAA056_6-50	50	6	6		81724.1	0.57%			18.39	6.04	10	2	24.44	TCHSHT
AAA066_6-50	50	6	6		78396.0	0.62%			17.40	16.50	15	3	33.90	TCHSHT
AAA076_6-50	50	6	6		82094.3	0.52%			7.77	46.53	35	7	54.30	TCHSHT
AAA086_6-50	50	6	6		77006.6	0.30%			4.36	3.39	10	2	7.75	TCHSHT
AAA096_6-50	50	6	6		78280.8	0.72%			11.77	4.48	15	3	16.25	TCHSHT
AAA0012_6-50	50	6	12		145805.8	0.28%			16.95	92.27	40	7	109.22	TCHSHT
AAA0112_6-50	50	6	12		149172.5	0.61%			18.71	81.46	34	6	100.17	TCHSHT
AAA0212_6-50	50	6	12		153518.4	0.54%			30.05	215.56	63	11	245.62	TCHSHT
AAA0312_6-50	50	6	12		151872.0	0.34%			18.62	140.06	64	11	158.68	TCHSHT
AAA0412_6-50	50	6	12		158863.4	0.47%			31.08	173.02	69	12	204.10	TCHSHT
AAA0512_6-50	50	6	12		156334.4	0.67%			23.47	184.07	51	9	207.54	TCHSHT
AAA0612_6-50	50	6	12		147521.1	0.59%			32.48	294.48	74	13	326.97	TCHSHT
AAA0712_6-50	50	6	12		156726.9	0.24%			17.07	51.56	46	8	68.63	TCHSHT
AAA0812_6-50	50	6	12		143667.2	0.40%			17.20	138.66	68	12	155.87	TCHSHT
AAA0912_6-50	50	6	12		151507.8	0.76%			17.08	117.23	40	7	134.31	TCHSHT
AAA0018_6-50	50	6	18		215970.5	0.35%			32.69	123.41	52	7	156.10	TCHSHT
AAA0118_6-50	50	6	18		218305.4	0.39%			35.98	137.46	60	8	173.43	TCHSHT
AAA0218_6-50	50	6	18		224155.6	0.59%			53.21	224.11	52	7	277.31	TCHSHT
AAA0318_6-50	50	6	18		225721.8	0.37%			39.20	220.99	76	10	260.19	TCHSHT
AAA0418_6-50	50	6	18		236207.9	0.49%			47.15	139.98	38	5	187.13	TCHSHT
AAA0518_6-50	50	6	18		225766.8	0.63%			45.17	215.29	62	8	260.46	TCHSHT
AAA0618_6-50	50	6	18		219290.4	0.59%			62.52	440.94	76	10	503.45	TCHSHT
AAA0718_6-50	50	6	18		230488.2	0.48%			50.06	250.56	76	10	300.62	TCHSHT
AAA0818_6-50	50	6	18		214564.9	0.27%			25.23	129.38	66	9	154.61	TCHSHT
AAA0918_6-50	50	6	18		224266.3	0.45%			33.63	232.22	76	10	265.85	TCHSHT
AAB006_2-6	6	2	6		14637.3	0.40%			0.14	0.11	5	1	0.24	TCHSLT
AAB016_2-6	6	2	6		12107.4	1.81%			0.17	0.11	5	1	0.28	TCHSLT
AAB026_2-6	6	2	6		15474.8	0.00%			0.09	0.08	10	2	0.17	TCHSLT
AAB046_2-6	6	2	6		19633.1	3.59%			0.23	0.21	5	1	0.45	TCHSLT
AAB056_2-6	6	2	6		17310.9	0.00%			0.17	0.06	5	1	0.23	TCHSLT
AAB066_2-6	6	2	6		17751.3	1.05%			0.18	0.10	10	2	0.28	TCHSLT
AAB076_2-6	6	2	6		18158.4	0.97%			0.14	0.05	5	1	0.19	TCHSLT
AAB086_2-6	6	2	6		13517.5	0.00%			0.13	0.07	10	2	0.19	TCHSLT
AAB096_2-6	6	2	6		14231.2	0.28%			0.19	0.05	5	1	0.24	TCHSLT
AAB0012_2-6	6	2	12		25856.6	1.07%			0.37	1.20	29	5	1.58	TCHSLT
AAB0112_2-6	6	2	12		25242.6	1.45%			0.47	2.00	28	5	2.47	TCHSLT
AAB0212_2-6	6	2	12		28243.8	0.00%			0.24	0.97	40	7	1.22	TCHSLT
AAB0412_2-6	6	2	12		32842.4	0.97%			0.50	1.44	17	3	1.94	TCHSLT
AAB0512_2-6	6	2	12		33921.8	2.10%			0.32	1.32	17	3	1.64	TCHSLT
AAB0612_2-6	6	2	12		31341.8	2.45%			0.32	1.34	28	5	1.67	TCHSLT
AAB0712_2-6	6	2	12		28629.7	2.35%			0.35	1.59	28	5	1.93	TCHSLT
AAB0812_2-6	6	2	12		22834.7	0.00%			0.25	0.45	22	4	0.71	TCHSLT
AAB0912_2-6	6	2	12		29347.2	1.12%			0.40	1.39	17	3	1.79	TCHSLT
AAB0018_2-6	6	2	18		34930.2	1.04%			0.69	3.63	44	6	4.33	TCHSLT
AAB0118_2-6	6	2	18		35516.1	1.01%			0.85	2.13	30	4	2.98	TCHSLT
AAB0218_2-6	6	2	18		41016.5	0.68%			0.51	1.15	22	3	1.66	TCHSLT
AAB0418_2-6	6	2	18		39836.7	3.10%			0.74	1.10	22	3	1.84	TCHSLT
AAB0518_2-6	6	2	18		44580.9	1.43%			0.73	1.44	30	4	2.17	TCHSLT
AAB0618_2-6	6	2	18		41817.8	1.47%			0.66	1.43	30	4	2.10	TCHSLT
AAB0718_2-6	6	2	18		40602.8	0.06%			0.63	1.17	22	3	1.80	TCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0818_2-6	6	2	18		33269.5	1.70%			0.56	0.98	30	4	1.54	TCHSLT
AAB0918_2-6	6	2	18		37625.9	0.73%			0.72	3.21	44	6	3.93	TCHSLT
AAB006_2-12	12	2	6		23252.0	0.69%			0.39	0.70	15	3	1.10	TCHSLT
AAB016_2-12	12	2	6		27042.3	0.74%			0.22	0.17	5	1	0.39	TCHSLT
AAB026_2-12	12	2	6		28146.4	0.00%			0.23	0.08	5	1	0.32	TCHSLT
AAB036_2-12	12	2	6		30480.5	0.24%			0.24	0.70	20	4	0.94	TCHSLT
AAB046_2-12	12	2	6		27055.9	1.64%			0.23	0.10	5	1	0.33	TCHSLT
AAB056_2-12	12	2	6		30766.1	0.93%			0.27	0.13	5	1	0.41	TCHSLT
AAB066_2-12	12	2	6		28179.0	2.96%			0.31	0.49	10	2	0.79	TCHSLT
AAB076_2-12	12	2	6		27368.4	0.57%			0.24	0.23	10	2	0.47	TCHSLT
AAB086_2-12	12	2	6		26340.6	2.46%			0.27	0.44	10	2	0.72	TCHSLT
AAB096_2-12	12	2	6		29042.6	0.71%			0.40	0.50	10	2	0.90	TCHSLT
AAB0012_2-12	12	2	12		43767.2	0.60%			0.76	1.78	17	3	2.54	TCHSLT
AAB0112_2-12	12	2	12		42979.1	0.45%			0.96	2.25	35	6	3.21	TCHSLT
AAB0212_2-12	12	2	12		45724.4	0.13%			1.08	4.81	46	8	5.90	TCHSLT
AAB0312_2-12	12	2	12		55010.1	1.36%			1.06	5.15	45	8	6.21	TCHSLT
AAB0412_2-12	12	2	12		46355.6	0.77%			0.59	0.77	17	3	1.35	TCHSLT
AAB0512_2-12	12	2	12		55263.3	2.28%			1.28	6.74	11	2	8.02	TCHSLT
AAB0612_2-12	12	2	12		47894.8	0.46%			1.00	2.46	34	6	3.46	TCHSLT
AAB0712_2-12	12	2	12		52934.1	0.04%			0.81	4.37	33	6	5.19	TCHSLT
AAB0812_2-12	12	2	12		42684.8	0.08%			0.49	2.95	40	7	3.44	TCHSLT
AAB0912_2-12	12	2	12		54406.5	1.91%			1.54	14.30	51	9	15.84	TCHSLT
AAB0118_2-12	12	2	18		65192.1	1.65%			1.67	4.99	22	3	6.66	TCHSLT
AAB0218_2-12	12	2	18		68689.3	2.34%			4.39	7.38	30	4	11.77	TCHSLT
AAB0318_2-12	12	2	18		78380.6	1.91%			2.92	22.74	44	6	25.66	TCHSLT
AAB0418_2-12	12	2	18		69235.0	0.93%			3.12	5.83	38	5	8.95	TCHSLT
AAB0518_2-12	12	2	18		76727.5	1.96%			3.98	11.44	30	4	15.42	TCHSLT
AAB0618_2-12	12	2	18		69188.1	0.83%			1.68	5.40	36	5	7.08	TCHSLT
AAB0718_2-12	12	2	18		69519.2	0.15%			1.22	6.13	30	4	7.35	TCHSLT
AAB0818_2-12	12	2	18		67436.9	0.99%			3.41	9.23	30	4	12.64	TCHSLT
AAB0918_2-12	12	2	18		76021.5	1.47%			4.86	20.11	66	9	24.96	TCHSLT
AAB006_2-25	25	2	6		50661.6	0.39%			0.81	0.84	10	2	1.64	TCHSLT
AAB016_2-25	25	2	6		51430.3	1.21%			0.49	0.14	5	1	0.64	TCHSLT
AAB026_2-25	25	2	6		56323.5	0.94%			1.24	0.43	5	1	1.67	TCHSLT
AAB036_2-25	25	2	6		56387.1	0.61%			0.51	1.19	15	3	1.70	TCHSLT
AAB046_2-25	25	2	6		58787.2	0.80%			0.87	2.81	15	3	3.68	TCHSLT
AAB056_2-25	25	2	6		60450.1	0.44%			0.89	0.34	5	1	1.23	TCHSLT
AAB066_2-25	25	2	6		48415.2	0.47%			0.63	0.53	10	2	1.15	TCHSLT
AAB076_2-25	25	2	6		54638.1	0.24%			0.55	0.28	5	1	0.82	TCHSLT
AAB086_2-25	25	2	6		58621.7	0.43%			0.88	1.41	15	3	2.29	TCHSLT
AAB096_2-25	25	2	6		65166.2	0.62%			0.89	0.90	10	2	1.79	TCHSLT
AAB0012_2-25	25	2	12		92601.3	0.89%			7.83	36.76	34	6	44.59	TCHSLT
AAB0112_2-25	25	2	12		97719.6	0.64%			3.84	14.53	40	7	18.37	TCHSLT
AAB0212_2-25	25	2	12		96135.6	1.55%			5.38	20.60	28	5	25.98	TCHSLT
AAB0312_2-25	25	2	12		99259.5	1.10%			5.78	13.53	40	7	19.32	TCHSLT
AAB0412_2-25	25	2	12		98739.2	0.84%			6.97	24.83	46	8	31.80	TCHSLT
AAB0512_2-25	25	2	12		111602.7	1.21%			11.96	123.89	57	10	135.85	TCHSLT
AAB0612_2-25	25	2	12		94270.0	0.73%			2.01	8.74	40	7	10.75	TCHSLT
AAB0712_2-25	25	2	12		98536.0	0.85%			7.42	15.22	52	9	22.64	TCHSLT
AAB0812_2-25	25	2	12		103360.3	1.03%			8.56	77.24	68	12	85.80	TCHSLT
AAB0912_2-25	25	2	12		109130.5	1.43%			9.36	33.70	40	7	43.05	TCHSLT
AAB0018_2-25	25	2	18		132168.9	0.46%			13.84	70.00	60	8	83.84	TCHSLT
AAB0118_2-25	25	2	18		136341.8	0.81%			17.97	90.87	68	9	108.84	TCHSLT
AAB0218_2-25	25	2	18		134773.1	0.96%			24.99	60.88	30	4	85.87	TCHSLT
AAB0318_2-25	25	2	18		147867.4	0.87%			28.16	101.90	74	10	130.06	TCHSLT
AAB0418_2-25	25	2	18		142472.3	1.49%			19.97	54.83	30	4	74.80	TCHSLT
AAB0518_2-25	25	2	18		155457.1	1.36%			32.53	208.05	60	8	240.58	TCHSLT
AAB0618_2-25	25	2	18		131141.1	0.60%			14.32	62.62	74	10	76.94	TCHSLT
AAB0718_2-25	25	2	18		146144.3	0.67%			19.17	100.46	44	6	119.63	TCHSLT
AAB0818_2-25	25	2	18		143064.4	0.52%			29.06	128.22	128	17	157.28	TCHSLT
AAB0918_2-25	25	2	18		155683.9	0.80%			17.24	103.73	44	6	120.97	TCHSLT
AAB006_2-50	50	2	6		99936.4	0.72%			1.08	1.00	10	2	2.08	TCHSLT
AAB016_2-50	50	2	6		102488.7	0.42%			1.63	0.77	10	2	2.40	TCHSLT
AAB026_2-50	50	2	6		102351.2	0.84%			2.12	1.83	15	3	3.95	TCHSLT
AAB036_2-50	50	2	6		109272.8	0.57%			2.55	1.03	10	2	3.59	TCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB046_2-50	50	2	6		116667.7	0.55%			7.15	5.43	10	2	12.58	TCHSLT
AAB056_2-50	50	2	6		114446.5	0.43%			1.98	1.76	10	2	3.74	TCHSLT
AAB066_2-50	50	2	6		102296.2	0.34%			2.14	2.23	10	2	4.36	TCHSLT
AAB076_2-50	50	2	6		110690.0	0.63%			3.29	2.57	10	2	5.86	TCHSLT
AAB086_2-50	50	2	6		104918.6	0.20%			1.64	1.46	10	2	3.10	TCHSLT
AAB096_2-50	50	2	6		111524.5	0.41%			3.39	3.53	20	4	6.92	TCHSLT
AAB0012_2-50	50	2	12		183239.4	0.46%			16.26	64.21	40	7	80.47	TCHSLT
AAB0112_2-50	50	2	12		188873.9	0.23%			9.95	30.25	63	11	40.20	TCHSLT
AAB0212_2-50	50	2	12		185204.7	0.34%			20.04	67.32	35	6	87.36	TCHSLT
AAB0312_2-50	50	2	12		195263.3	0.33%			16.13	101.33	68	12	117.46	TCHSLT
AAB0412_2-50	50	2	12		207360.2	0.83%			29.21	255.20	51	9	284.41	TCHSLT
AAB0512_2-50	50	2	12		202921.2	0.66%			14.19	86.54	40	7	100.73	TCHSLT
AAB0612_2-50	50	2	12		180286.4	0.50%			10.81	41.33	34	6	52.14	TCHSLT
AAB0712_2-50	50	2	12		198483.1	1.26%			27.88	179.54	40	7	207.42	TCHSLT
AAB0812_2-50	50	2	12		186261.1	0.32%			16.61	111.51	69	12	128.12	TCHSLT
AAB0912_2-50	50	2	12		200238.2	0.52%			21.41	86.52	34	6	107.93	TCHSLT
AAB0018_2-50	50	2	18		264742.9	0.32%			26.39	184.42	128	17	210.81	TCHSLT
AAB0118_2-50	50	2	18		273349.7	0.47%			36.67	140.13	46	6	176.80	TCHSLT
AAB0218_2-50	50	2	18		265502.3	0.40%			32.68	104.93	54	7	137.60	TCHSLT
AAB0318_2-50	50	2	18		286533.4	0.62%			29.52	184.28	60	8	213.81	TCHSLT
AAB0418_2-50	50	2	18		301141.1	0.65%			65.87	329.19	46	6	395.06	TCHSLT
AAB0518_2-50	50	2	18		292851.1	0.51%			33.73	105.83	30	4	139.56	TCHSLT
AAB0618_2-50	50	2	18		262762.2	0.42%			27.59	64.06	22	3	91.65	TCHSLT
AAB0718_2-50	50	2	18		279733.8	0.48%			48.46	177.96	44	6	226.42	TCHSLT
AAB0818_2-50	50	2	18		268195.3	0.22%			28.42	127.07	52	7	155.49	TCHSLT
AAB0918_2-50	50	2	18		290479.1	0.41%			47.92	318.34	68	9	366.26	TCHSLT
AAB006_4-6	6	4	6		10214.0	2.68%			0.13	0.07	5	1	0.21	TCHSLT
AAB016_4-6	6	4	6		13630.1	0.00%			0.41	0.36	10	2	0.77	TCHSLT
AAB026_4-6	6	4	6		12900.2	0.00%			0.13	0.05	5	1	0.18	TCHSLT
AAB036_4-6	6	4	6		13857.1	0.05%			0.14	0.18	10	2	0.32	TCHSLT
AAB046_4-6	6	4	6		11571.9	0.89%			0.24	0.06	5	1	0.30	TCHSLT
AAB056_4-6	6	4	6		16689.7	1.89%			0.19	0.07	5	1	0.26	TCHSLT
AAB066_4-6	6	4	6		13062.4	2.03%			0.17	0.28	10	2	0.45	TCHSLT
AAB076_4-6	6	4	6		14628.8	0.00%			0.13	0.05	5	1	0.18	TCHSLT
AAB086_4-6	6	4	6		10809.7	2.12%			0.14	0.11	10	2	0.26	TCHSLT
AAB096_4-6	6	4	6		15154.2	0.00%			0.12	0.08	10	2	0.20	TCHSLT
AAB0012_4-6	6	4	12		18435.7	0.00%			0.26	0.46	17	3	0.71	TCHSLT
AAB0112_4-6	6	4	12		26888.6	0.27%			0.89	2.26	22	4	3.14	TCHSLT
AAB0212_4-6	6	4	12		25188.5	1.97%			0.48	0.81	17	3	1.28	TCHSLT
AAB0312_4-6	6	4	12		27441.5	0.16%			0.33	0.52	17	3	0.84	TCHSLT
AAB0412_4-6	6	4	12		25851.9	0.00%			0.74	3.15	40	7	3.89	TCHSLT
AAB0512_4-6	6	4	12		31979.7	0.58%			0.34	1.13	34	6	1.47	TCHSLT
AAB0612_4-6	6	4	12		22811.0	0.30%			0.64	0.49	17	3	1.13	TCHSLT
AAB0712_4-6	6	4	12		25816.0	1.11%			0.28	1.39	39	7	1.67	TCHSLT
AAB0812_4-6	6	4	12		23519.5	1.39%			0.32	0.39	11	2	0.71	TCHSLT
AAB0912_4-6	6	4	12		27429.0	0.29%			0.17	0.61	28	5	0.78	TCHSLT
AAB0018_4-6	6	4	18		28550.0	0.60%			0.99	1.51	22	3	2.50	TCHSLT
AAB0118_4-6	6	4	18		36037.7	1.23%			2.02	3.19	22	3	5.21	TCHSLT
AAB0218_4-6	6	4	18		35678.7	0.67%			1.79	2.59	22	3	4.37	TCHSLT
AAB0318_4-6	6	4	18		41450.6	0.16%			1.27	3.21	44	6	4.48	TCHSLT
AAB0418_4-6	6	4	18		37329.7	1.02%			1.17	2.22	22	3	3.39	TCHSLT
AAB0518_4-6	6	4	18		44968.1	0.15%			0.73	1.45	44	6	2.19	TCHSLT
AAB0618_4-6	6	4	18		36209.8	0.00%			0.98	4.16	44	6	5.15	TCHSLT
AAB0718_4-6	6	4	18		38954.9	0.60%			1.39	7.83	68	9	9.22	TCHSLT
AAB0818_4-6	6	4	18		29138.3	0.02%			0.60	0.54	22	3	1.14	TCHSLT
AAB0918_4-6	6	4	18		39594.9	0.46%			0.56	0.83	22	3	1.39	TCHSLT
AAB006_4-12	12	4	6		21270.0	0.72%			0.32	0.19	5	1	0.51	TCHSLT
AAB016_4-12	12	4	6		25186.9	1.07%			1.20	0.82	10	2	2.02	TCHSLT
AAB026_4-12	12	4	6		19451.1	0.76%			0.37	0.16	5	1	0.53	TCHSLT
AAB036_4-12	12	4	6		21910.7	0.83%			0.53	0.64	10	2	1.17	TCHSLT
AAB046_4-12	12	4	6		24246.6	1.09%			0.50	0.31	5	1	0.81	TCHSLT
AAB056_4-12	12	4	6		25645.7	0.88%			2.68	0.97	10	2	3.65	TCHSLT
AAB066_4-12	12	4	6		22230.0	0.53%			0.32	0.25	10	2	0.58	TCHSLT
AAB076_4-12	12	4	6		22647.6	0.00%			1.52	0.32	5	1	1.84	TCHSLT
AAB086_4-12	12	4	6		23386.8	0.16%			0.23	0.11	5	1	0.35	TCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB096_4-12	12	4	6		24478.2	4.01%			2.01	1.04	10	2	3.06	TCHSLT
AAB0012_4-12	12	4	12		37430.8	0.00%			1.40	11.12	57	10	12.52	TCHSLT
AAB0112_4-12	12	4	12		44140.9	2.12%			6.32	47.66	40	7	53.99	TCHSLT
AAB0212_4-12	12	4	12		38140.7	0.19%			0.87	1.27	17	3	2.14	TCHSLT
AAB0312_4-12	12	4	12		42601.9	1.56%			2.84	14.98	39	7	17.81	TCHSLT
AAB0412_4-12	12	4	12		44058.2	1.47%			4.06	11.55	22	4	15.62	TCHSLT
AAB0512_4-12	12	4	12		48394.2	1.76%			4.85	11.71	46	8	16.56	TCHSLT
AAB0612_4-12	12	4	12		41495.0	0.44%			2.12	13.26	62	11	15.38	TCHSLT
AAB0712_4-12	12	4	12		45913.9	2.09%			8.17	19.47	17	3	27.64	TCHSLT
AAB0812_4-12	12	4	12		43414.8	1.46%			0.88	4.59	28	5	5.47	TCHSLT
AAB0912_4-12	12	4	12		46791.7	1.39%			10.53	19.02	28	5	29.55	TCHSLT
AAB0018_4-12	12	4	18		56058.0	1.16%			6.24	54.68	52	7	60.92	TCHSLT
AAB0118_4-12	12	4	18		63069.8	1.17%			11.52	56.95	52	7	68.47	TCHSLT
AAB0218_4-12	12	4	18		54705.6	0.20%			1.20	5.48	52	7	6.68	TCHSLT
AAB0318_4-12	12	4	18		65012.0	1.99%			9.83	39.31	44	6	49.14	TCHSLT
AAB0418_4-12	12	4	18		65536.4	1.73%			13.74	56.85	38	5	70.59	TCHSLT
AAB0518_4-12	12	4	18		69314.9	1.57%			11.36	73.74	74	10	85.09	TCHSLT
AAB0618_4-12	12	4	18		61623.9	1.33%			2.66	6.42	46	6	9.08	TCHSLT
AAB0718_4-12	12	4	18		69963.6	1.78%			25.62	49.86	30	4	75.48	TCHSLT
AAB0818_4-12	12	4	18		64713.3	0.11%			3.41	21.18	52	7	24.59	TCHSLT
AAB0918_4-12	12	4	18		66202.9	1.52%			13.97	60.87	52	7	74.84	TCHSLT
AAB006_4-25	25	4	6		39120.5	0.44%			2.36	1.25	10	2	3.60	TCHSLT
AAB016_4-25	25	4	6		47956.1	0.68%			2.97	1.98	15	3	4.95	TCHSLT
AAB026_4-25	25	4	6		45852.6	1.22%			5.54	1.30	5	1	6.84	TCHSLT
AAB036_4-25	25	4	6		45622.8	1.02%			3.11	2.58	15	3	5.69	TCHSLT
AAB046_4-25	25	4	6		46411.4	1.26%			6.01	0.68	5	1	6.69	TCHSLT
AAB056_4-25	25	4	6		50499.8	1.65%			5.06	1.83	10	2	6.90	TCHSLT
AAB066_4-25	25	4	6		39811.5	1.17%			0.82	0.76	15	3	1.58	TCHSLT
AAB076_4-25	25	4	6		45744.4	1.16%			6.57	2.93	10	2	9.50	TCHSLT
AAB086_4-25	25	4	6		42384.0	1.76%			2.10	1.24	10	2	3.34	TCHSLT
AAB096_4-25	25	4	6		47851.0	1.02%			1.82	0.70	5	1	2.52	TCHSLT
AAB0012_4-25	25	4	12		77354.5	1.17%			17.04	56.78	52	9	73.82	TCHSLT
AAB0112_4-25	25	4	12		86729.6	1.67%			22.87	58.33	23	4	81.20	TCHSLT
AAB0212_4-25	25	4	12		83037.3	1.79%			33.30	213.48	51	9	246.79	TCHSLT
AAB0312_4-25	25	4	12		85691.4	1.01%			14.93	42.85	22	4	57.78	TCHSLT
AAB0412_4-25	25	4	12		86558.3	0.97%			16.61	55.45	46	8	72.06	TCHSLT
AAB0512_4-25	25	4	12		89808.1	0.87%			15.08	44.57	23	4	59.66	TCHSLT
AAB0612_4-25	25	4	12		76415.5	1.35%			8.66	47.82	23	4	56.49	TCHSLT
AAB0712_4-25	25	4	12		86161.5	0.94%			16.27	131.97	68	12	148.24	TCHSLT
AAB0812_4-25	25	4	12		80961.1	0.91%			15.67	75.52	40	7	91.19	TCHSLT
AAB0912_4-25	25	4	12		86377.0	0.49%			9.36	30.12	56	10	39.48	TCHSLT
AAB0018_4-25	25	4	18		111415.9	0.81%			32.73	89.63	44	6	122.36	TCHSLT
AAB0118_4-25	25	4	18		125264.0	1.60%			40.09	224.58	54	7	264.66	TCHSLT
AAB0218_4-25	25	4	18		121395.5	1.81%			56.32	347.72	60	8	404.04	TCHSLT
AAB0318_4-25	25	4	18		124814.7	1.12%			30.74	138.59	52	7	169.32	TCHSLT
AAB0418_4-25	25	4	18		127180.5	1.14%			24.46	117.85	52	7	142.31	TCHSLT
AAB0518_4-25	25	4	18		129763.9	1.12%			26.74	61.85	30	4	88.59	TCHSLT
AAB0618_4-25	25	4	18		112502.9	0.77%			16.03	108.14	60	8	124.17	TCHSLT
AAB0718_4-25	25	4	18		125266.4	1.13%			33.16	192.92	74	10	226.08	TCHSLT
AAB0818_4-25	25	4	18		114864.0	0.84%			31.74	256.99	82	11	288.73	TCHSLT
AAB0918_4-25	25	4	18		126812.6	0.75%			20.82	87.46	52	7	108.28	TCHSLT
AAB006_4-50	50	4	6		83961.7	0.54%			2.77	12.31	20	4	15.08	TCHSLT
AAB016_4-50	50	4	6		88206.5	1.20%			4.88	31.92	15	3	36.80	TCHSLT
AAB026_4-50	50	4	6		89691.4	0.83%			13.35	27.30	15	3	40.65	TCHSLT
AAB036_4-50	50	4	6		90599.5	0.78%			14.99	4.55	10	2	19.55	TCHSLT
AAB046_4-50	50	4	6		98664.4	1.27%			14.60	28.42	15	3	43.02	TCHSLT
AAB056_4-50	50	4	6		92824.1	0.86%			13.42	3.37	10	2	16.79	TCHSLT
AAB066_4-50	50	4	6		81611.2	0.30%			3.24	1.89	10	2	5.13	TCHSLT
AAB076_4-50	50	4	6		86267.9	0.84%			6.95	13.01	10	2	19.96	TCHSLT
AAB086_4-50	50	4	6		86512.7	0.83%			11.43	1.56	5	1	13.00	TCHSLT
AAB096_4-50	50	4	6		97179.7	0.92%			13.31	8.70	15	3	22.01	TCHSLT
AAB0012_4-50	50	4	12		163240.6	0.45%			34.95	260.16	69	12	295.11	TCHSLT
AAB0112_4-50	50	4	12		159984.2	0.50%			23.80	76.37	29	5	100.17	TCHSLT
AAB0212_4-50	50	4	12		161913.9	0.63%			36.83	189.87	52	9	226.70	TCHSLT
AAB0312_4-50	50	4	12		169784.3	0.76%			33.29	186.95	46	8	220.23	TCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0412_4-50	50	4	12		175964.5	0.92%			36.34	238.29	63	11	274.63	TCHSLT
AAB0512_4-50	50	4	12		169375.6	0.99%			31.82	160.12	52	9	191.93	TCHSLT
AAB0612_4-50	50	4	12		152308.1	0.41%			23.86	102.60	46	8	126.46	TCHSLT
AAB0712_4-50	50	4	12		166133.3	0.83%			40.52	244.36	57	10	284.88	TCHSLT
AAB0812_4-50	50	4	12		160583.4	0.70%			32.31	125.64	40	7	157.95	TCHSLT
AAB0912_4-50	50	4	12		174775.4	0.50%			25.44	96.23	40	7	121.67	TCHSLT
AAB0018_4-50	50	4	18		232098.0	0.51%			58.69	310.32	76	10	369.00	TCHSLT
AAB0118_4-50	50	4	18		235379.5	0.44%			54.12	448.24	128	17	502.36	TCHSLT
AAB0218_4-50	50	4	18		243222.0	0.75%			64.73	259.74	46	6	324.47	TCHSLT
AAB0318_4-50	50	4	18		247029.3	0.61%			52.27	250.86	52	7	303.13	TCHSLT
AAB0418_4-50	50	4	18		257883.9	0.68%			58.40	413.89	76	10	472.29	TCHSLT
AAB0518_4-50	50	4	18		248738.8	0.69%			44.46	316.70	68	9	361.17	TCHSLT
AAB0618_4-50	50	4	18		226092.6	0.34%			26.96	114.61	52	7	141.57	TCHSLT
AAB0718_4-50	50	4	18		245643.5	0.76%			66.88	380.14	68	9	447.02	TCHSLT
AAB0818_4-50	50	4	18		231720.7	0.86%			66.69	197.87	46	6	264.57	TCHSLT
AAB0918_4-50	50	4	18		254436.2	0.36%			40.90	212.09	68	9	252.99	TCHSLT
AAB006_6-6	6	6	6		10341.9	0.50%			0.24	0.19	10	2	0.43	TCHSLT
AAB026_6-6	6	6	6		13458.5	0.31%			0.20	0.09	5	1	0.30	TCHSLT
AAB036_6-6	6	6	6		15365.4	3.22%			0.18	0.23	20	4	0.41	TCHSLT
AAB046_6-6	6	6	6		15138.2	2.51%			0.12	0.19	10	2	0.30	TCHSLT
AAB056_6-6	6	6	6		18138.6	0.31%			0.11	0.08	5	1	0.20	TCHSLT
AAB066_6-6	6	6	6		12580.6	1.63%			0.26	0.49	15	3	0.75	TCHSLT
AAB076_6-6	6	6	6		16759.8	0.82%			0.30	0.32	10	2	0.63	TCHSLT
AAB086_6-6	6	6	6		16673.0	2.12%			0.27	0.28	10	2	0.55	TCHSLT
AAB096_6-6	6	6	6		18291.3	1.92%			0.46	0.39	5	1	0.85	TCHSLT
AAB0012_6-6	6	6	12		21415.3	0.89%			0.69	3.41	28	5	4.10	TCHSLT
AAB0212_6-6	6	6	12		26163.6	0.23%			0.65	1.21	22	4	1.86	TCHSLT
AAB0312_6-6	6	6	12		29381.6	1.24%			0.87	1.00	17	3	1.87	TCHSLT
AAB0412_6-6	6	6	12		29313.6	0.42%			0.67	0.96	17	3	1.63	TCHSLT
AAB0512_6-6	6	6	12		31955.8	1.17%			0.58	1.45	34	6	2.03	TCHSLT
AAB0612_6-6	6	6	12		25841.6	1.01%			1.81	1.83	23	4	3.64	TCHSLT
AAB0712_6-6	6	6	12		31046.7	1.32%			0.81	2.53	40	7	3.34	TCHSLT
AAB0812_6-6	6	6	12		30549.7	2.40%			1.13	3.67	17	3	4.80	TCHSLT
AAB0912_6-6	6	6	12		34363.2	1.44%			0.66	0.84	11	2	1.50	TCHSLT
AAB0018_6-6	6	6	18		31387.0	1.18%			1.80	4.94	36	5	6.74	TCHSLT
AAB0218_6-6	6	6	18		35153.2	0.07%			1.38	2.10	36	5	3.48	TCHSLT
AAB0318_6-6	6	6	18		41063.1	0.00%			1.22	2.72	44	6	3.94	TCHSLT
AAB0418_6-6	6	6	18		43111.4	0.60%			3.97	7.69	22	3	11.66	TCHSLT
AAB0518_6-6	6	6	18		48772.5	1.72%			2.40	3.54	22	3	5.94	TCHSLT
AAB0618_6-6	6	6	18		36131.8	0.40%			2.07	3.55	52	7	5.61	TCHSLT
AAB0718_6-6	6	6	18		45529.5	0.73%			1.69	3.57	44	6	5.26	TCHSLT
AAB0818_6-6	6	6	18		47578.4	1.39%			3.01	2.93	30	4	5.94	TCHSLT
AAB0918_6-6	6	6	18		51496.6	0.77%			11.93	8.43	30	4	20.37	TCHSLT
AAB006_6-12	12	6	6		21595.8	1.69%			0.66	0.51	10	2	1.17	TCHSLT
AAB016_6-12	12	6	6		22098.9	0.04%			0.54	0.23	5	1	0.78	TCHSLT
AAB026_6-12	12	6	6		21227.1	0.79%			2.30	0.60	5	1	2.90	TCHSLT
AAB036_6-12	12	6	6		21854.1	0.97%			0.70	0.64	10	2	1.34	TCHSLT
AAB046_6-12	12	6	6		20077.5	1.99%			0.34	0.31	10	2	0.65	TCHSLT
AAB056_6-12	12	6	6		21674.5	1.59%			0.37	0.53	10	2	0.91	TCHSLT
AAB066_6-12	12	6	6		18910.7	0.27%			0.33	0.21	10	2	0.55	TCHSLT
AAB076_6-12	12	6	6		25956.0	2.66%			0.86	0.39	5	1	1.25	TCHSLT
AAB086_6-12	12	6	6		22483.6	1.82%			2.15	0.32	5	1	2.48	TCHSLT
AAB096_6-12	12	6	6		25623.1	1.21%			0.77	0.38	10	2	1.15	TCHSLT
AAB0012_6-12	12	6	12		39423.4	1.01%			2.55	13.72	46	8	16.27	TCHSLT
AAB0112_6-12	12	6	12		41923.4	0.50%			2.74	7.21	40	7	9.95	TCHSLT
AAB0212_6-12	12	6	12		40528.1	1.51%			10.93	43.49	34	6	54.42	TCHSLT
AAB0312_6-12	12	6	12		43261.2	1.11%			7.35	12.02	17	3	19.37	TCHSLT
AAB0412_6-12	12	6	12		38234.8	1.33%			8.53	34.05	33	6	42.59	TCHSLT
AAB0512_6-12	12	6	12		44438.8	1.35%			3.82	22.77	34	6	26.59	TCHSLT
AAB0612_6-12	12	6	12		36664.8	2.03%			1.05	5.99	40	7	7.04	TCHSLT
AAB0712_6-12	12	6	12		51254.8	1.83%			11.12	68.62	40	7	79.74	TCHSLT
AAB0812_6-12	12	6	12		42457.0	1.57%			8.29	89.00	69	12	97.29	TCHSLT
AAB0912_6-12	12	6	12		46101.3	1.26%			7.05	40.09	40	7	47.14	TCHSLT
AAB0018_6-12	12	6	18		59157.4	1.28%			6.84	45.12	74	10	51.96	TCHSLT
AAB0118_6-12	12	6	18		64440.2	0.83%			3.71	13.40	44	6	17.12	TCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0218_6-12	12	6	18		59168.1	1.60%			23.86	54.89	44	6	78.75	TCHSLT
AAB0318_6-12	12	6	18		60795.9	1.44%			12.80	58.04	66	9	70.84	TCHSLT
AAB0418_6-12	12	6	18		54628.3	0.76%			4.73	50.53	74	10	55.26	TCHSLT
AAB0518_6-12	12	6	18		66427.1	1.66%			12.55	23.24	30	4	35.79	TCHSLT
AAB0618_6-12	12	6	18		56534.3	1.01%			6.72	18.63	52	7	25.35	TCHSLT
AAB0718_6-12	12	6	18		73612.6	1.99%			19.59	133.20	68	9	152.79	TCHSLT
AAB0818_6-12	12	6	18		62685.1	3.05%			16.07	87.71	44	6	103.79	TCHSLT
AAB0918_6-12	12	6	18		68127.6	1.29%			11.42	18.33	52	7	29.76	TCHSLT
AAB006_6-25	25	6	6		42063.2	1.66%			10.73	4.07	10	2	14.80	TCHSLT
AAB016_6-25	25	6	6		41910.8	1.85%			4.95	20.27	25	5	25.22	TCHSLT
AAB026_6-25	25	6	6		43804.8	1.19%			8.31	1.27	5	1	9.58	TCHSLT
AAB036_6-25	25	6	6		42657.8	0.88%			4.46	0.74	5	1	5.20	TCHSLT
AAB046_6-25	25	6	6		45825.3	1.96%			15.66	16.74	15	3	32.40	TCHSLT
AAB056_6-25	25	6	6		42528.3	1.82%			5.85	2.87	10	2	8.72	TCHSLT
AAB066_6-25	25	6	6		40837.0	0.87%			3.22	1.43	10	2	4.65	TCHSLT
AAB076_6-25	25	6	6		44652.7	1.43%			2.42	0.70	5	1	3.12	TCHSLT
AAB086_6-25	25	6	6		43543.6	1.82%			8.25	15.72	10	2	23.97	TCHSLT
AAB096_6-25	25	6	6		44378.9	1.45%			4.43	2.93	15	3	7.36	TCHSLT
AAB0012_6-25	25	6	12		79544.4	1.36%			23.18	203.39	74	13	226.58	TCHSLT
AAB0112_6-25	25	6	12		83033.8	2.14%			26.20	133.71	40	7	159.91	TCHSLT
AAB0212_6-25	25	6	12		83021.6	1.91%			30.59	197.29	62	11	227.88	TCHSLT
AAB0312_6-25	25	6	12		80969.5	1.89%			34.94	117.09	28	5	152.03	TCHSLT
AAB0412_6-25	25	6	12		84594.6	2.13%			35.07	238.01	51	9	273.07	TCHSLT
AAB0512_6-25	25	6	12		79496.3	1.39%			18.12	79.00	40	7	97.12	TCHSLT
AAB0612_6-25	25	6	12		77153.0	1.34%			18.62	78.73	28	5	97.35	TCHSLT
AAB0712_6-25	25	6	12		79816.2	0.86%			13.40	57.03	51	9	70.43	TCHSLT
AAB0812_6-25	25	6	12		78706.3	1.20%			20.03	158.33	63	11	178.36	TCHSLT
AAB0912_6-25	25	6	12		85492.5	1.29%			20.58	169.74	75	13	190.32	TCHSLT
AAB0018_6-25	25	6	18		116022.3	1.70%			58.94	125.77	30	4	184.71	TCHSLT
AAB0118_6-25	25	6	18		121417.3	1.68%			49.92	357.19	98	13	407.12	TCHSLT
AAB0218_6-25	25	6	18		124160.0	1.54%			53.06	401.98	96	13	455.04	TCHSLT
AAB0318_6-25	25	6	18		120696.9	1.69%			66.62	503.12	70	9	569.74	TCHSLT
AAB0418_6-25	25	6	18		125498.8	1.95%			68.56	516.49	74	10	585.05	TCHSLT
AAB0518_6-25	25	6	18		120925.8	1.28%			33.46	153.42	60	8	186.88	TCHSLT
AAB0618_6-25	25	6	18		112933.0	1.58%			54.44	267.81	68	9	322.25	TCHSLT
AAB0718_6-25	25	6	18		117862.0	1.07%			35.86	124.64	52	7	160.50	TCHSLT
AAB0818_6-25	25	6	18		113685.8	1.72%			38.34	194.63	52	7	232.97	TCHSLT
AAB0918_6-25	25	6	18		126756.9	1.71%			47.58	249.95	60	8	297.53	TCHSLT
AAB006_6-50	50	6	6		77240.1	1.00%			15.95	7.58	10	2	23.54	TCHSLT
AAB016_6-50	50	6	6		81106.2	1.58%			22.73	25.51	10	2	48.25	TCHSLT
AAB026_6-50	50	6	6		83504.8	1.12%			20.50	28.19	10	2	48.69	TCHSLT
AAB036_6-50	50	6	6		80844.6	0.82%			16.99	5.61	10	2	22.60	TCHSLT
AAB046_6-50	50	6	6		84437.9	1.15%			25.47	21.01	5	1	46.48	TCHSLT
AAB056_6-50	50	6	6		84731.2	0.79%			21.49	32.94	10	2	54.43	TCHSLT
AAB066_6-50	50	6	6		81626.3	1.38%			35.66	42.97	10	2	78.64	TCHSLT
AAB076_6-50	50	6	6		83764.0	0.77%			20.90	22.56	20	4	43.47	TCHSLT
AAB086_6-50	50	6	6		80243.3	1.11%			11.58	3.41	10	2	15.00	TCHSLT
AAB096_6-50	50	6	6		80882.3	0.96%			30.46	7.00	5	1	37.46	TCHSLT
AAB0012_6-50	50	6	12		149023.8	0.86%			39.87	255.67	57	10	295.55	TCHSLT
AAB0112_6-50	50	6	12		151600.6	0.74%			27.20	320.50	103	18	347.70	TCHSLT
AAB0212_6-50	50	6	12		156980.4	1.00%			41.31	256.93	46	8	298.24	TCHSLT
AAB0312_6-50	50	6	12		154865.0	0.78%			38.65	229.58	46	8	268.23	TCHSLT
AAB0412_6-50	50	6	12		162780.9	1.01%			36.91	345.75	63	11	382.66	TCHSLT
AAB0512_6-50	50	6	12		161676.9	1.57%			45.53	203.23	40	7	248.76	TCHSLT
AAB0612_6-50	50	6	12		151979.7	1.27%			43.00	342.27	51	9	385.27	TCHSLT
AAB0712_6-50	50	6	12		158969.6	0.72%			30.83	157.66	46	8	188.49	TCHSLT
AAB0812_6-50	50	6	12		146336.5	0.78%			28.05	230.72	63	11	258.77	TCHSLT
AAB0912_6-50	50	6	12		154704.8	0.98%			37.77	247.63	58	10	285.41	TCHSLT
AAB0018_6-50	50	6	18		219612.6	0.91%			58.91	162.56	30	4	221.47	TCHSLT
AAB0118_6-50	50	6	18		222540.6	0.85%			62.17	329.34	68	9	391.51	TCHSLT
AAB0218_6-50	50	6	18		228260.1	0.87%			69.55	425.07	62	8	494.62	TCHSLT
AAB0318_6-50	50	6	18		229040.5	0.72%			72.73	331.32	52	7	404.06	TCHSLT
AAB0418_6-50	50	6	18		240923.5	0.91%			73.80	364.63	46	6	438.43	TCHSLT
AAB0518_6-50	50	6	18		230992.7	1.19%			72.36	527.66	73	10	600.02	TCHSLT
AAB0618_6-50	50	6	18		225189.5	1.36%			74.23	525.80	60	8	600.03	TCHSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_6-50	50	6	18		232537.9	0.62%			65.14	293.27	60	8	358.41	TCHSLT
AAB0818_6-50	50	6	18		218886.0	0.89%			70.63	387.96	60	8	458.59	TCHSLT
AAB0918_6-50	50	6	18		227502.1	0.84%			72.50	527.53	84	11	600.03	TCHSLT
ABA006_2-6	6	2	6		8175.8	0.02%			0.16	0.22	10	2	0.38	TCLSHT
ABA016_2-6	6	2	6		5995.8	0.35%			0.06	0.11	10	2	0.17	TCLSHT
ABA026_2-6	6	2	6		7073.9	0.00%			0.10	0.06	5	1	0.17	TCLSHT
ABA036_2-6	6	2	6		7799.3	0.00%			0.07	0.05	5	1	0.12	TCLSHT
ABA046_2-6	6	2	6		7927.2	0.12%			0.16	0.21	10	2	0.38	TCLSHT
ABA056_2-6	6	2	6		9392.7	0.16%			0.08	0.05	5	1	0.12	TCLSHT
ABA066_2-6	6	2	6		8054.2	0.00%			0.12	0.09	10	2	0.21	TCLSHT
ABA076_2-6	6	2	6		9129.3	0.00%			0.09	0.08	5	1	0.17	TCLSHT
ABA086_2-6	6	2	6		8192.9	0.00%			0.08	0.15	10	2	0.23	TCLSHT
ABA096_2-6	6	2	6		7120.6	0.23%			0.06	0.03	5	1	0.09	TCLSHT
ABA0012_2-6	6	2	12		15598.3	0.00%			0.42	1.57	22	4	1.99	TCLSHT
ABA0112_2-6	6	2	12		13419.7	0.00%			0.22	0.53	17	3	0.75	TCLSHT
ABA0212_2-6	6	2	12		14728.6	0.03%			0.23	1.81	33	6	2.03	TCLSHT
ABA0412_2-6	6	2	12		13857.2	0.18%			0.46	1.81	17	3	2.26	TCLSHT
ABA0512_2-6	6	2	12		17403.2	0.02%			0.14	0.44	17	3	0.58	TCLSHT
ABA0612_2-6	6	2	12		14944.3	0.00%			0.17	0.83	28	5	1.00	TCLSHT
ABA0712_2-6	6	2	12		16617.9	0.00%			0.26	0.78	28	5	1.04	TCLSHT
ABA0812_2-6	6	2	12		14158.1	0.00%			0.27	0.46	17	3	0.73	TCLSHT
ABA0912_2-6	6	2	12		16127.2	0.02%			0.22	0.91	34	6	1.13	TCLSHT
ABA0018_2-6	6	2	18		21811.3	0.28%			1.51	4.88	30	4	6.39	TCLSHT
ABA0118_2-6	6	2	18		20129.5	0.00%			0.36	0.49	22	3	0.85	TCLSHT
ABA0218_2-6	6	2	18		22498.7	0.13%			0.54	1.46	22	3	2.00	TCLSHT
ABA0418_2-6	6	2	18		20236.6	0.30%			0.96	2.39	30	4	3.35	TCLSHT
ABA0518_2-6	6	2	18		25054.5	0.00%			0.50	0.77	22	3	1.27	TCLSHT
ABA0618_2-6	6	2	18		22805.2	0.00%			0.55	1.82	38	5	2.37	TCLSHT
ABA0718_2-6	6	2	18		24375.4	0.00%			0.75	1.71	22	3	2.46	TCLSHT
ABA0818_2-6	6	2	18		20874.4	0.00%			0.53	2.42	38	5	2.96	TCLSHT
ABA0918_2-6	6	2	18		22474.4	0.00%			0.39	1.24	36	5	1.63	TCLSHT
ABA006_2-12	12	2	6		12675.6	0.00%			0.10	0.12	10	2	0.22	TCLSHT
ABA016_2-12	12	2	6		14162.4	0.00%			0.15	0.10	5	1	0.26	TCLSHT
ABA026_2-12	12	2	6		14163.9	0.00%			0.15	0.07	5	1	0.22	TCLSHT
ABA036_2-12	12	2	6		16340.9	0.00%			0.18	0.21	15	3	0.39	TCLSHT
ABA046_2-12	12	2	6		14225.0	0.17%			0.19	0.23	15	3	0.42	TCLSHT
ABA056_2-12	12	2	6		16557.5	0.11%			0.12	0.15	10	2	0.27	TCLSHT
ABA066_2-12	12	2	6		13792.6	0.00%			0.20	0.20	10	2	0.40	TCLSHT
ABA076_2-12	12	2	6		15403.4	0.00%			0.09	0.06	5	1	0.15	TCLSHT
ABA086_2-12	12	2	6		12858.6	0.00%			0.19	0.29	15	3	0.49	TCLSHT
ABA096_2-12	12	2	6		15954.8	0.14%			0.28	0.42	10	2	0.70	TCLSHT
ABA0012_2-12	12	2	12		26199.7	0.00%			0.27	1.39	34	6	1.65	TCLSHT
ABA0112_2-12	12	2	12		27441.3	0.00%			0.33	0.99	29	5	1.32	TCLSHT
ABA0212_2-12	12	2	12		27189.6	0.00%			0.54	2.33	28	5	2.87	TCLSHT
ABA0312_2-12	12	2	12		31742.0	0.02%			0.34	2.02	45	8	2.36	TCLSHT
ABA0412_2-12	12	2	12		28311.1	0.00%			0.39	0.98	23	4	1.38	TCLSHT
ABA0512_2-12	12	2	12		32081.3	0.00%			0.38	0.57	11	2	0.96	TCLSHT
ABA0612_2-12	12	2	12		27236.8	0.00%			0.29	1.19	34	6	1.49	TCLSHT
ABA0712_2-12	12	2	12		30386.5	0.00%			0.44	1.80	28	5	2.24	TCLSHT
ABA0812_2-12	12	2	12		26711.1	0.14%			0.54	1.11	17	3	1.66	TCLSHT
ABA0912_2-12	12	2	12		31083.5	0.09%			1.09	3.92	29	5	5.00	TCLSHT
ABA0118_2-12	12	2	18		40447.3	0.00%			0.97	3.52	36	5	4.50	TCLSHT
ABA0218_2-12	12	2	18		41754.3	0.15%			2.20	6.81	30	4	9.01	TCLSHT
ABA0318_2-12	12	2	18		46256.9	0.00%			1.21	2.87	22	3	4.08	TCLSHT
ABA0418_2-12	12	2	18		44169.6	0.00%			1.13	1.55	22	3	2.68	TCLSHT
ABA0518_2-12	12	2	18		47321.1	0.00%			1.17	2.19	22	3	3.36	TCLSHT
ABA0618_2-12	12	2	18		40625.0	0.00%			0.86	1.43	22	3	2.29	TCLSHT
ABA0718_2-12	12	2	18		45445.5	0.00%			0.86	2.39	36	5	3.25	TCLSHT
ABA0818_2-12	12	2	18		41332.2	0.04%			1.22	2.53	22	3	3.75	TCLSHT
ABA0918_2-12	12	2	18		47353.8	0.23%			6.21	39.85	50	7	46.06	TCLSHT
ABA006_2-25	25	2	6		29204.1	0.04%			0.20	0.13	5	1	0.34	TCLSHT
ABA016_2-25	25	2	6		29917.3	0.09%			0.31	0.44	10	2	0.75	TCLSHT
ABA026_2-25	25	2	6		28591.9	0.05%			0.60	0.89	15	3	1.48	TCLSHT
ABA036_2-25	25	2	6		30198.2	0.09%			0.34	0.54	10	2	0.88	TCLSHT
ABA046_2-25	25	2	6		31448.9	0.12%			0.57	0.62	10	2	1.19	TCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA056_2-25	25	2	6		31530.0	0.06%			1.19	0.85	10	2	2.04	TCLSHT
ABA066_2-25	25	2	6		27884.3	0.00%			0.16	0.17	10	2	0.33	TCLSHT
ABA076_2-25	25	2	6		31325.5	0.03%			0.39	0.39	10	2	0.78	TCLSHT
ABA086_2-25	25	2	6		32154.1	0.01%			0.63	0.64	10	2	1.26	TCLSHT
ABA096_2-25	25	2	6		33219.8	0.00%			0.38	0.21	5	1	0.59	TCLSHT
ABA0012_2-25	25	2	12		58215.0	0.01%			0.62	1.62	23	4	2.24	TCLSHT
ABA0112_2-25	25	2	12		60926.9	0.00%			0.87	6.34	34	6	7.21	TCLSHT
ABA0212_2-25	25	2	12		56231.8	0.00%			1.19	6.68	57	10	7.87	TCLSHT
ABA0312_2-25	25	2	12		59207.6	0.03%			1.18	9.61	51	9	10.79	TCLSHT
ABA0412_2-25	25	2	12		59684.7	0.01%			0.99	3.92	34	6	4.91	TCLSHT
ABA0512_2-25	25	2	12		65021.5	0.07%			1.51	25.13	62	11	26.64	TCLSHT
ABA0612_2-25	25	2	12		57223.0	0.00%			0.36	0.72	17	3	1.08	TCLSHT
ABA0712_2-25	25	2	12		62797.2	0.07%			1.00	2.80	17	3	3.80	TCLSHT
ABA0812_2-25	25	2	12		62869.3	0.00%			3.74	23.01	62	11	26.75	TCLSHT
ABA0912_2-25	25	2	12		63987.0	0.01%			1.11	10.81	28	5	11.91	TCLSHT
ABA0018_2-25	25	2	18		87020.2	0.00%			1.13	1.45	22	3	2.58	TCLSHT
ABA0118_2-25	25	2	18		88593.6	0.01%			2.83	3.70	22	3	6.53	TCLSHT
ABA0218_2-25	25	2	18		83271.4	0.05%			3.66	16.56	66	9	20.22	TCLSHT
ABA0318_2-25	25	2	18		91397.2	0.07%			5.67	35.28	60	8	40.94	TCLSHT
ABA0418_2-25	25	2	18		90592.4	0.00%			3.08	3.74	22	3	6.82	TCLSHT
ABA0518_2-25	25	2	18		95159.9	0.15%			17.35	30.65	30	4	48.00	TCLSHT
ABA0618_2-25	25	2	18		83544.5	0.00%			1.01	2.79	36	5	3.80	TCLSHT
ABA0718_2-25	25	2	18		92172.9	0.03%			5.59	8.92	22	3	14.51	TCLSHT
ABA0818_2-25	25	2	18		91536.7	0.08%			5.32	23.31	38	5	28.63	TCLSHT
ABA0918_2-25	25	2	18		93153.5	0.02%			4.50	10.90	52	7	15.39	TCLSHT
ABA006_2-50	50	2	6		58818.5	0.05%			0.46	0.60	10	2	1.06	TCLSHT
ABA016_2-50	50	2	6		60313.6	0.02%			0.51	0.70	15	3	1.21	TCLSHT
ABA026_2-50	50	2	6		56192.0	0.09%			1.09	0.97	10	2	2.06	TCLSHT
ABA036_2-50	50	2	6		59310.7	0.03%			0.48	0.85	10	2	1.33	TCLSHT
ABA046_2-50	50	2	6		60928.8	0.08%			1.01	0.92	10	2	1.94	TCLSHT
ABA056_2-50	50	2	6		59401.5	0.09%			0.53	0.67	10	2	1.21	TCLSHT
ABA066_2-50	50	2	6		56051.2	0.08%			0.87	0.65	10	2	1.53	TCLSHT
ABA076_2-50	50	2	6		58979.1	0.04%			0.75	2.30	15	3	3.05	TCLSHT
ABA086_2-50	50	2	6		60052.9	0.01%			0.98	0.67	10	2	1.66	TCLSHT
ABA096_2-50	50	2	6		60675.3	0.02%			0.83	1.22	15	3	2.06	TCLSHT
ABA0012_2-50	50	2	12		117317.0	0.00%			0.77	3.92	34	6	4.69	TCLSHT
ABA0112_2-50	50	2	12		119911.0	0.03%			1.33	5.57	46	8	6.90	TCLSHT
ABA0212_2-50	50	2	12		114084.3	0.02%			4.25	39.15	62	11	43.40	TCLSHT
ABA0312_2-50	50	2	12		119931.2	0.00%			2.85	20.91	45	8	23.76	TCLSHT
ABA0412_2-50	50	2	12		122234.9	0.02%			4.04	25.36	56	10	29.40	TCLSHT
ABA0512_2-50	50	2	12		119367.8	0.00%			1.84	8.08	28	5	9.92	TCLSHT
ABA0612_2-50	50	2	12		113653.8	0.01%			0.64	2.43	28	5	3.06	TCLSHT
ABA0712_2-50	50	2	12		114753.6	0.03%			3.46	14.73	29	5	18.19	TCLSHT
ABA0812_2-50	50	2	12		115448.4	0.03%			2.87	11.65	40	7	14.53	TCLSHT
ABA0912_2-50	50	2	12		122440.4	0.01%			1.66	5.35	28	5	7.01	TCLSHT
ABA0018_2-50	50	2	18		175791.4	0.01%			3.82	3.19	22	3	7.01	TCLSHT
ABA0118_2-50	50	2	18		178764.9	0.00%			2.33	8.26	52	7	10.59	TCLSHT
ABA0218_2-50	50	2	18		169773.4	0.03%			6.14	26.15	66	9	32.28	TCLSHT
ABA0318_2-50	50	2	18		181042.7	0.00%			2.91	9.23	44	6	12.14	TCLSHT
ABA0418_2-50	50	2	18		182032.7	0.06%			26.87	58.66	22	3	85.53	TCLSHT
ABA0518_2-50	50	2	18		181094.5	0.01%			11.71	19.27	44	6	30.98	TCLSHT
ABA0618_2-50	50	2	18		171807.6	0.03%			2.47	3.48	22	3	5.95	TCLSHT
ABA0718_2-50	50	2	18		172463.7	0.00%			6.25	9.96	30	4	16.21	TCLSHT
ABA0818_2-50	50	2	18		173626.1	0.03%			6.61	25.69	52	7	32.30	TCLSHT
ABA0918_2-50	50	2	18		183008.9	0.03%			6.69	19.17	44	6	25.86	TCLSHT
ABA006_4-6	6	4	6		6353.8	0.00%			0.13	0.20	10	2	0.33	TCLSHT
ABA016_4-6	6	4	6		7264.3	0.00%			0.24	0.41	10	2	0.65	TCLSHT
ABA026_4-6	6	4	6		7334.0	0.00%			0.15	0.10	5	1	0.25	TCLSHT
ABA036_4-6	6	4	6		6701.1	0.01%			0.11	0.07	5	1	0.18	TCLSHT
ABA046_4-6	6	4	6		5572.9	0.35%			0.10	0.07	5	1	0.16	TCLSHT
ABA056_4-6	6	4	6		7922.3	0.18%			0.40	0.51	10	2	0.91	TCLSHT
ABA066_4-6	6	4	6		6385.4	0.29%			0.20	0.07	5	1	0.27	TCLSHT
ABA076_4-6	6	4	6		7671.5	0.00%			0.08	0.09	10	2	0.18	TCLSHT
ABA086_4-6	6	4	6		5884.5	0.44%			0.13	0.13	10	2	0.26	TCLSHT
ABA096_4-6	6	4	6		8581.9	0.35%			0.15	0.11	5	1	0.27	TCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0012_4-6	6	4	12		11705.7	0.00%			0.15	0.37	17	3	0.52	TCLSHT
ABA0112_4-6	6	4	12		15268.3	0.00%			0.84	4.27	40	7	5.10	TCLSHT
ABA0212_4-6	6	4	12		14582.8	0.00%			0.35	0.72	17	3	1.07	TCLSHT
ABA0312_4-6	6	4	12		14422.5	0.00%			0.27	0.61	17	3	0.88	TCLSHT
ABA0412_4-6	6	4	12		12864.5	0.00%			0.72	0.89	11	2	1.60	TCLSHT
ABA0512_4-6	6	4	12		15827.1	0.07%			0.99	4.86	33	6	5.86	TCLSHT
ABA0612_4-6	6	4	12		12744.8	0.00%			0.28	0.62	22	4	0.90	TCLSHT
ABA0712_4-6	6	4	12		14690.0	0.03%			0.29	0.57	17	3	0.86	TCLSHT
ABA0812_4-6	6	4	12		12366.3	0.04%			0.43	0.51	11	2	0.94	TCLSHT
ABA0912_4-6	6	4	12		14845.8	0.00%			0.25	0.41	17	3	0.66	TCLSHT
ABA0018_4-6	6	4	18		18616.5	0.00%			0.81	1.56	22	3	2.38	TCLSHT
ABA0118_4-6	6	4	18		21748.1	0.07%			1.47	5.43	36	5	6.90	TCLSHT
ABA0218_4-6	6	4	18		21432.5	0.00%			0.77	1.91	22	3	2.68	TCLSHT
ABA0318_4-6	6	4	18		22047.9	0.00%			0.77	1.51	22	3	2.29	TCLSHT
ABA0418_4-6	6	4	18		19977.0	0.22%			0.83	2.62	22	3	3.45	TCLSHT
ABA0518_4-6	6	4	18		23482.7	0.10%			3.04	4.61	22	3	7.65	TCLSHT
ABA0618_4-6	6	4	18		19782.0	0.08%			1.17	2.23	22	3	3.40	TCLSHT
ABA0718_4-6	6	4	18		22367.2	0.00%			0.70	0.78	14	2	1.49	TCLSHT
ABA0818_4-6	6	4	18		18176.4	0.00%			0.95	2.46	36	5	3.41	TCLSHT
ABA0918_4-6	6	4	18		22157.9	0.00%			0.56	1.07	22	3	1.63	TCLSHT
ABA006_4-12	12	4	6		13271.6	0.00%			0.36	0.24	5	1	0.61	TCLSHT
ABA016_4-12	12	4	6		15440.0	0.00%			0.54	0.52	10	2	1.07	TCLSHT
ABA026_4-12	12	4	6		13157.6	0.00%			0.17	0.31	10	2	0.48	TCLSHT
ABA036_4-12	12	4	6		12360.9	0.17%			0.48	0.51	10	2	0.99	TCLSHT
ABA046_4-12	12	4	6		14396.1	0.14%			0.37	0.30	10	2	0.67	TCLSHT
ABA056_4-12	12	4	6		14184.0	0.01%			0.41	0.25	5	1	0.67	TCLSHT
ABA066_4-12	12	4	6		12690.9	0.19%			0.22	0.11	5	1	0.33	TCLSHT
ABA076_4-12	12	4	6		12480.8	0.00%			0.30	0.28	10	2	0.58	TCLSHT
ABA086_4-12	12	4	6		14699.8	0.00%			0.26	0.28	10	2	0.55	TCLSHT
ABA096_4-12	12	4	6		13280.9	0.08%			0.45	0.30	5	1	0.75	TCLSHT
ABA0012_4-12	12	4	12		24760.7	0.02%			1.07	3.70	23	4	4.76	TCLSHT
ABA0112_4-12	12	4	12		28648.3	0.14%			2.08	4.19	17	3	6.27	TCLSHT
ABA0212_4-12	12	4	12		26526.1	0.00%			0.71	3.20	28	5	3.91	TCLSHT
ABA0312_4-12	12	4	12		25463.3	0.00%			0.71	3.05	28	5	3.76	TCLSHT
ABA0412_4-12	12	4	12		27370.8	0.01%			0.73	3.79	34	6	4.52	TCLSHT
ABA0512_4-12	12	4	12		27924.4	0.00%			0.83	5.45	28	5	6.28	TCLSHT
ABA0612_4-12	12	4	12		24615.2	0.00%			0.36	0.82	17	3	1.18	TCLSHT
ABA0712_4-12	12	4	12		26367.9	0.05%			1.12	3.25	23	4	4.37	TCLSHT
ABA0812_4-12	12	4	12		28141.0	0.00%			0.65	2.80	28	5	3.44	TCLSHT
ABA0912_4-12	12	4	12		28635.0	0.15%			3.82	8.21	17	3	12.03	TCLSHT
ABA0018_4-12	12	4	18		38446.6	0.22%			7.24	52.12	44	6	59.36	TCLSHT
ABA0118_4-12	12	4	18		42099.8	0.25%			7.73	19.85	22	3	27.57	TCLSHT
ABA0218_4-12	12	4	18		39462.7	0.02%			1.70	3.65	14	2	5.34	TCLSHT
ABA0318_4-12	12	4	18		39731.8	0.01%			2.98	7.17	30	4	10.15	TCLSHT
ABA0418_4-12	12	4	18		40766.3	0.00%			1.91	5.45	22	3	7.36	TCLSHT
ABA0518_4-12	12	4	18		41124.1	0.00%			1.72	2.58	14	2	4.30	TCLSHT
ABA0618_4-12	12	4	18		37160.0	0.00%			1.04	1.79	22	3	2.82	TCLSHT
ABA0718_4-12	12	4	18		41283.8	0.12%			6.25	14.21	22	3	20.47	TCLSHT
ABA0818_4-12	12	4	18		42914.5	0.02%			1.72	4.06	22	3	5.79	TCLSHT
ABA0918_4-12	12	4	18		41704.1	0.24%			7.16	16.52	22	3	23.67	TCLSHT
ABA006_4-25	25	4	6		25597.6	0.00%			0.57	0.80	10	2	1.37	TCLSHT
ABA016_4-25	25	4	6		29499.8	0.01%			0.84	1.06	15	3	1.90	TCLSHT
ABA026_4-25	25	4	6		27679.7	0.08%			1.54	4.55	15	3	6.08	TCLSHT
ABA036_4-25	25	4	6		26069.8	0.14%			0.83	1.36	10	2	2.19	TCLSHT
ABA046_4-25	25	4	6		26666.4	0.01%			0.40	0.46	10	2	0.86	TCLSHT
ABA056_4-25	25	4	6		30213.5	0.16%			0.45	0.19	5	1	0.65	TCLSHT
ABA066_4-25	25	4	6		25388.2	0.04%			0.30	0.19	5	1	0.50	TCLSHT
ABA076_4-25	25	4	6		27068.9	0.00%			2.41	0.93	10	2	3.34	TCLSHT
ABA086_4-25	25	4	6		26264.8	0.01%			0.70	0.40	10	2	1.10	TCLSHT
ABA096_4-25	25	4	6		27962.4	0.01%			0.77	1.00	10	2	1.77	TCLSHT
ABA0012_4-25	25	4	12		53771.2	0.06%			3.62	27.11	34	6	30.74	TCLSHT
ABA0112_4-25	25	4	12		56367.4	0.00%			1.53	7.97	28	5	9.50	TCLSHT
ABA0212_4-25	25	4	12		53356.9	0.10%			4.90	18.39	23	4	23.30	TCLSHT
ABA0312_4-25	25	4	12		54115.3	0.00%			4.59	10.44	28	5	15.03	TCLSHT
ABA0412_4-25	25	4	12		54964.8	0.00%			0.82	3.11	28	5	3.93	TCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0512_4-25	25	4	12		57136.0	0.02%			1.21	4.31	28	5	5.51	TCLSHT
ABA0612_4-25	25	4	12		50724.2	0.02%			0.70	3.86	28	5	4.56	TCLSHT
ABA0712_4-25	25	4	12		55599.3	0.09%			6.17	22.05	28	5	28.23	TCLSHT
ABA0812_4-25	25	4	12		54132.7	0.03%			1.46	3.54	17	3	5.00	TCLSHT
ABA0912_4-25	25	4	12		54970.8	0.11%			7.75	57.80	52	9	65.55	TCLSHT
ABA0018_4-25	25	4	18		78120.9	0.05%			7.34	15.11	14	2	22.45	TCLSHT
ABA0118_4-25	25	4	18		83925.7	0.00%			3.26	5.11	22	3	8.37	TCLSHT
ABA0218_4-25	25	4	18		80983.6	0.07%			14.50	45.20	38	5	59.70	TCLSHT
ABA0318_4-25	25	4	18		80502.5	0.04%			7.09	13.78	28	4	20.87	TCLSHT
ABA0418_4-25	25	4	18		83338.3	0.00%			1.67	2.79	22	3	4.46	TCLSHT
ABA0518_4-25	25	4	18		84432.8	0.04%			4.74	27.25	44	6	31.99	TCLSHT
ABA0618_4-25	25	4	18		77409.4	0.00%			2.14	3.51	22	3	5.65	TCLSHT
ABA0718_4-25	25	4	18		82723.7	0.12%			16.67	75.20	44	6	91.87	TCLSHT
ABA0818_4-25	25	4	18		78523.0	0.00%			3.57	4.35	22	3	7.91	TCLSHT
ABA0918_4-25	25	4	18		82454.8	0.09%			18.88	25.43	22	3	44.32	TCLSHT
ABA006_4-50	50	4	6		54643.6	0.00%			0.95	0.71	10	2	1.66	TCLSHT
ABA016_4-50	50	4	6		55461.6	0.10%			1.69	0.83	10	2	2.53	TCLSHT
ABA026_4-50	50	4	6		56063.8	0.02%			0.79	0.79	10	2	1.58	TCLSHT
ABA036_4-50	50	4	6		55263.1	0.00%			3.60	1.59	10	2	5.20	TCLSHT
ABA046_4-50	50	4	6		56937.9	0.04%			3.23	9.04	15	3	12.27	TCLSHT
ABA056_4-50	50	4	6		57386.3	0.01%			1.12	1.41	15	3	2.53	TCLSHT
ABA066_4-50	50	4	6		52883.0	0.02%			1.27	1.20	10	2	2.47	TCLSHT
ABA076_4-50	50	4	6		51741.8	0.12%			1.65	3.18	10	2	4.84	TCLSHT
ABA086_4-50	50	4	6		52929.8	0.02%			1.21	2.15	15	3	3.36	TCLSHT
ABA096_4-50	50	4	6		60176.3	0.02%			1.08	1.43	15	3	2.51	TCLSHT
ABA0012_4-50	50	4	12		110488.5	0.04%			11.62	42.83	28	5	54.45	TCLSHT
ABA0112_4-50	50	4	12		108476.9	0.01%			2.56	6.54	28	5	9.11	TCLSHT
ABA0212_4-50	50	4	12		108027.4	0.01%			3.10	13.17	34	6	16.27	TCLSHT
ABA0312_4-50	50	4	12		110197.5	0.02%			5.31	9.73	23	4	15.04	TCLSHT
ABA0412_4-50	50	4	12		109710.2	0.05%			10.59	48.21	29	5	58.81	TCLSHT
ABA0512_4-50	50	4	12		112025.1	0.01%			2.28	8.66	45	8	10.93	TCLSHT
ABA0612_4-50	50	4	12		104063.4	0.05%			1.90	5.55	40	7	7.44	TCLSHT
ABA0712_4-50	50	4	12		106651.5	0.05%			14.43	55.61	57	10	70.04	TCLSHT
ABA0812_4-50	50	4	12		106511.9	0.00%			3.54	4.61	34	6	8.15	TCLSHT
ABA0912_4-50	50	4	12		114396.7	0.02%			8.12	28.24	46	8	36.36	TCLSHT
ABA0018_4-50	50	4	18		160103.0	0.01%			8.23	31.54	44	6	39.76	TCLSHT
ABA0118_4-50	50	4	18		161822.6	0.01%			6.37	20.05	50	7	26.41	TCLSHT
ABA0218_4-50	50	4	18		162910.4	0.01%			19.51	16.85	30	4	36.36	TCLSHT
ABA0318_4-50	50	4	18		163388.0	0.05%			20.42	57.49	44	6	77.92	TCLSHT
ABA0418_4-50	50	4	18		166577.1	0.05%			35.14	153.57	68	9	188.71	TCLSHT
ABA0518_4-50	50	4	18		168108.2	0.01%			8.11	10.03	22	3	18.14	TCLSHT
ABA0618_4-50	50	4	18		156380.0	0.02%			5.56	13.54	36	5	19.10	TCLSHT
ABA0718_4-50	50	4	18		161778.4	0.06%			32.38	61.84	30	4	94.22	TCLSHT
ABA0818_4-50	50	4	18		157363.2	0.01%			3.97	4.83	22	3	8.80	TCLSHT
ABA0918_4-50	50	4	18		168531.4	0.00%			11.84	32.05	44	6	43.89	TCLSHT
ABA006_6-6	6	6	6		5670.0	0.00%			0.08	0.05	5	1	0.13	TCLSHT
ABA016_6-6	6	6	6		7319.1	0.28%			0.41	0.60	10	2	1.01	TCLSHT
ABA026_6-6	6	6	6		6982.3	0.00%			0.09	0.12	10	2	0.21	TCLSHT
ABA036_6-6	6	6	6		7413.1	0.00%			0.10	0.06	5	1	0.16	TCLSHT
ABA046_6-6	6	6	6		8175.2	0.25%			0.30	0.22	5	1	0.52	TCLSHT
ABA056_6-6	6	6	6		8047.7	0.12%			0.25	0.28	10	2	0.54	TCLSHT
ABA066_6-6	6	6	6		6733.8	0.00%			0.12	0.17	10	2	0.29	TCLSHT
ABA076_6-6	6	6	6		7774.7	0.00%			0.15	0.16	10	2	0.31	TCLSHT
ABA086_6-6	6	6	6		6714.9	0.00%			0.11	0.06	5	1	0.17	TCLSHT
ABA096_6-6	6	6	6		7568.9	0.23%			0.40	0.33	10	2	0.73	TCLSHT
ABA0012_6-6	6	6	12		12141.4	0.04%			0.15	0.45	22	4	0.60	TCLSHT
ABA0112_6-6	6	6	12		14293.3	0.00%			0.56	1.41	17	3	1.97	TCLSHT
ABA0212_6-6	6	6	12		14330.1	0.00%			0.47	1.70	28	5	2.17	TCLSHT
ABA0312_6-6	6	6	12		14837.7	0.00%			0.51	1.55	22	4	2.06	TCLSHT
ABA0412_6-6	6	6	12		15060.3	0.10%			0.57	2.40	22	4	2.98	TCLSHT
ABA0512_6-6	6	6	12		14739.4	0.01%			0.47	1.05	17	3	1.52	TCLSHT
ABA0612_6-6	6	6	12		12767.0	0.00%			0.62	1.07	11	2	1.69	TCLSHT
ABA0712_6-6	6	6	12		15302.5	0.07%			0.45	1.11	29	5	1.56	TCLSHT
ABA0812_6-6	6	6	12		12617.6	0.00%			0.41	0.70	11	2	1.10	TCLSHT
ABA0912_6-6	6	6	12		14338.0	0.00%			0.64	3.69	23	4	4.33	TCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0018_6-6	6	6	18		17950.1	0.00%			0.29	0.33	14	2	0.62	TCLSHT
ABA0218_6-6	6	6	18		20073.2	0.00%			0.88	4.87	66	9	5.75	TCLSHT
ABA0318_6-6	6	6	18		20669.1	0.00%			0.83	2.05	22	3	2.88	TCLSHT
ABA0418_6-6	6	6	18		22435.7	0.00%			1.08	2.24	22	3	3.33	TCLSHT
ABA0518_6-6	6	6	18		22447.8	0.00%			1.10	2.38	22	3	3.48	TCLSHT
ABA0618_6-6	6	6	18		20119.8	0.00%			0.91	1.30	22	3	2.21	TCLSHT
ABA0718_6-6	6	6	18		22014.5	0.02%			0.78	1.69	22	3	2.47	TCLSHT
ABA0818_6-6	6	6	18		20277.5	0.09%			1.35	2.59	22	3	3.94	TCLSHT
ABA0918_6-6	6	6	18		21702.5	0.00%			1.16	2.44	22	3	3.59	TCLSHT
ABA006_6-12	12	6	6		12813.9	0.01%			0.40	0.52	10	2	0.93	TCLSHT
ABA016_6-12	12	6	6		13113.1	0.00%			1.04	0.42	5	1	1.46	TCLSHT
ABA026_6-12	12	6	6		12086.0	0.00%			0.34	0.34	10	2	0.67	TCLSHT
ABA036_6-12	12	6	6		12981.3	0.08%			0.18	0.11	5	1	0.29	TCLSHT
ABA046_6-12	12	6	6		12798.9	0.00%			0.33	0.38	10	2	0.70	TCLSHT
ABA056_6-12	12	6	6		12411.8	0.16%			0.30	0.17	5	1	0.48	TCLSHT
ABA066_6-12	12	6	6		11702.8	0.01%			0.49	0.23	5	1	0.72	TCLSHT
ABA076_6-12	12	6	6		13625.7	0.39%			0.64	0.87	10	2	1.51	TCLSHT
ABA086_6-12	12	6	6		13476.6	0.05%			0.62	0.42	10	2	1.04	TCLSHT
ABA096_6-12	12	6	6		14406.8	0.02%			0.46	0.83	10	2	1.29	TCLSHT
ABA0012_6-12	12	6	12		24229.0	0.00%			0.73	2.54	22	4	3.27	TCLSHT
ABA0112_6-12	12	6	12		25698.4	0.00%			1.15	2.96	23	4	4.11	TCLSHT
ABA0212_6-12	12	6	12		24225.2	0.03%			1.73	14.61	17	3	16.33	TCLSHT
ABA0312_6-12	12	6	12		26589.5	0.00%			1.08	4.24	28	5	5.32	TCLSHT
ABA0412_6-12	12	6	12		25073.5	0.00%			0.57	1.18	11	2	1.75	TCLSHT
ABA0512_6-12	12	6	12		26338.0	0.06%			0.94	2.18	17	3	3.12	TCLSHT
ABA0612_6-12	12	6	12		23645.7	0.03%			1.18	5.45	28	5	6.63	TCLSHT
ABA0712_6-12	12	6	12		28116.6	0.05%			6.44	39.01	28	5	45.45	TCLSHT
ABA0812_6-12	12	6	12		25966.2	0.16%			3.49	10.09	23	4	13.59	TCLSHT
ABA0912_6-12	12	6	12		27423.9	0.00%			1.65	7.33	28	5	8.98	TCLSHT
ABA0018_6-12	12	6	18		36553.7	0.00%			2.13	5.98	22	3	8.11	TCLSHT
ABA0118_6-12	12	6	18		41255.7	0.03%			5.30	19.30	52	7	24.60	TCLSHT
ABA0218_6-12	12	6	18		36881.5	0.00%			2.11	5.08	22	3	7.19	TCLSHT
ABA0318_6-12	12	6	18		38518.2	0.01%			1.72	4.51	22	3	6.23	TCLSHT
ABA0418_6-12	12	6	18		37126.2	0.00%			1.86	5.31	28	4	7.17	TCLSHT
ABA0518_6-12	12	6	18		40634.2	0.02%			3.10	7.49	22	3	10.59	TCLSHT
ABA0618_6-12	12	6	18		37432.6	0.03%			4.37	14.86	36	5	19.23	TCLSHT
ABA0718_6-12	12	6	18		41586.0	0.19%			12.28	27.57	30	4	39.85	TCLSHT
ABA0818_6-12	12	6	18		39500.8	0.19%			19.12	58.28	44	6	77.40	TCLSHT
ABA0918_6-12	12	6	18		41333.3	0.06%			5.04	18.19	38	5	23.24	TCLSHT
ABA006_6-25	25	6	6		25681.9	0.09%			3.02	0.85	5	1	3.87	TCLSHT
ABA016_6-25	25	6	6		25410.9	0.03%			1.19	3.10	15	3	4.29	TCLSHT
ABA026_6-25	25	6	6		26806.8	0.06%			0.94	0.83	10	2	1.77	TCLSHT
ABA036_6-25	25	6	6		26814.4	0.00%			6.08	13.69	15	3	19.77	TCLSHT
ABA046_6-25	25	6	6		28526.6	0.05%			3.82	9.26	15	3	13.09	TCLSHT
ABA056_6-25	25	6	6		26287.3	0.00%			0.88	1.74	15	3	2.62	TCLSHT
ABA066_6-25	25	6	6		25331.9	0.00%			0.46	0.79	10	2	1.26	TCLSHT
ABA076_6-25	25	6	6		27989.0	0.05%			1.50	1.68	15	3	3.18	TCLSHT
ABA086_6-25	25	6	6		26694.2	0.10%			1.43	0.68	5	1	2.12	TCLSHT
ABA096_6-25	25	6	6		26353.2	0.04%			0.82	0.44	5	1	1.26	TCLSHT
ABA0012_6-25	25	6	12		52447.1	0.07%			9.41	32.80	29	5	42.21	TCLSHT
ABA0112_6-25	25	6	12		52630.5	0.11%			15.57	84.43	39	7	100.00	TCLSHT
ABA0212_6-25	25	6	12		53993.9	0.00%			5.32	22.93	39	7	28.25	TCLSHT
ABA0312_6-25	25	6	12		52439.6	0.14%			13.44	66.13	28	5	79.56	TCLSHT
ABA0412_6-25	25	6	12		56006.6	0.13%			12.78	77.40	34	6	90.18	TCLSHT
ABA0512_6-25	25	6	12		51790.4	0.02%			7.46	43.24	34	6	50.70	TCLSHT
ABA0612_6-25	25	6	12		50984.3	0.00%			1.42	2.03	17	3	3.46	TCLSHT
ABA0712_6-25	25	6	12		52730.5	0.06%			9.39	30.16	34	6	39.55	TCLSHT
ABA0812_6-25	25	6	12		51185.7	0.00%			4.91	11.70	34	6	16.61	TCLSHT
ABA0912_6-25	25	6	12		53579.9	0.00%			4.59	14.08	40	7	18.68	TCLSHT
ABA0018_6-25	25	6	18		76455.1	0.21%			36.53	168.71	44	6	205.24	TCLSHT
ABA0118_6-25	25	6	18		79441.9	0.08%			23.70	63.04	44	6	86.73	TCLSHT
ABA0218_6-25	25	6	18		81685.4	0.04%			19.05	41.09	36	5	60.14	TCLSHT
ABA0318_6-25	25	6	18		79841.9	0.23%			60.80	136.70	30	4	197.50	TCLSHT
ABA0418_6-25	25	6	18		84939.7	0.14%			49.48	166.37	44	6	215.86	TCLSHT
ABA0518_6-25	25	6	18		80996.2	0.06%			19.78	68.99	44	6	88.77	TCLSHT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0618_6-25	25	6	18		76313.2	0.00%			4.39	6.54	22	3	10.94	TCLSHT
ABA0718_6-25	25	6	18		77695.9	0.05%			16.48	17.16	22	3	33.64	TCLSHT
ABA0818_6-25	25	6	18		75117.4	0.02%			12.90	13.38	22	3	26.28	TCLSHT
ABA0918_6-25	25	6	18		81311.5	0.01%			6.47	11.15	30	4	17.62	TCLSHT
ABA006_6-50	50	6	6		50612.1	0.01%			1.31	4.49	10	2	5.80	TCLSHT
ABA016_6-50	50	6	6		50642.8	0.01%			1.72	1.65	10	2	3.37	TCLSHT
ABA026_6-50	50	6	6		52179.2	0.00%			6.28	22.66	20	4	28.95	TCLSHT
ABA036_6-50	50	6	6		51706.9	0.04%			2.11	2.30	15	3	4.41	TCLSHT
ABA046_6-50	50	6	6		54047.8	0.09%			6.66	5.85	10	2	12.51	TCLSHT
ABA056_6-50	50	6	6		52772.4	0.03%			2.20	8.37	15	3	10.57	TCLSHT
ABA066_6-50	50	6	6		51976.3	0.04%			11.27	4.48	10	2	15.75	TCLSHT
ABA076_6-50	50	6	6		54003.7	0.00%			1.81	3.37	20	4	5.19	TCLSHT
ABA086_6-50	50	6	6		50897.6	0.06%			3.66	3.74	10	2	7.40	TCLSHT
ABA096_6-50	50	6	6		50689.7	0.03%			6.29	2.03	10	2	8.33	TCLSHT
ABA0012_6-50	50	6	12		102494.2	0.00%			7.46	15.85	28	5	23.31	TCLSHT
ABA0112_6-50	50	6	12		101528.2	0.01%			8.78	36.87	40	7	45.65	TCLSHT
ABA0212_6-50	50	6	12		105098.0	0.05%			23.58	61.28	23	4	84.87	TCLSHT
ABA0312_6-50	50	6	12		102567.4	0.02%			6.95	34.54	46	8	41.50	TCLSHT
ABA0412_6-50	50	6	12		109754.6	0.04%			15.70	73.61	28	5	89.31	TCLSHT
ABA0512_6-50	50	6	12		105370.7	0.04%			15.45	101.56	46	8	117.01	TCLSHT
ABA0612_6-50	50	6	12		102031.4	0.06%			26.27	190.07	57	10	216.35	TCLSHT
ABA0712_6-50	50	6	12		107562.8	0.02%			12.19	37.68	34	6	49.87	TCLSHT
ABA0812_6-50	50	6	12		99900.5	0.01%			6.87	27.83	28	5	34.70	TCLSHT
ABA0912_6-50	50	6	12		102314.2	0.00%			11.71	14.57	23	4	26.28	TCLSHT
ABA0018_6-50	50	6	18		152828.8	0.03%			29.87	114.61	44	6	144.47	TCLSHT
ABA0118_6-50	50	6	18		150964.2	0.01%			22.92	49.39	30	4	72.31	TCLSHT
ABA0218_6-50	50	6	18		154489.7	0.05%			38.12	75.47	30	4	113.59	TCLSHT
ABA0318_6-50	50	6	18		154200.6	0.00%			22.39	14.95	22	3	37.34	TCLSHT
ABA0418_6-50	50	6	18		164883.3	0.07%			47.90	116.24	30	4	164.14	TCLSHT
ABA0518_6-50	50	6	18		155394.9	0.05%			33.44	163.37	52	7	196.81	TCLSHT
ABA0618_6-50	50	6	18		154291.6	0.07%			59.57	249.75	68	9	309.31	TCLSHT
ABA0718_6-50	50	6	18		159118.6	0.02%			19.39	82.43	44	6	101.81	TCLSHT
ABA0818_6-50	50	6	18		151032.7	0.00%			17.56	57.42	44	6	74.98	TCLSHT
ABA0918_6-50	50	6	18		154191.1	0.03%			25.52	56.71	30	4	82.23	TCLSHT
ABB006_2-6	6	2	6		8227.1	0.01%			0.15	0.08	5	1	0.22	TCLSLT
ABB016_2-6	6	2	6		6010.0	0.21%			0.07	0.11	10	2	0.18	TCLSLT
ABB026_2-6	6	2	6		7157.4	0.00%			0.08	0.08	5	1	0.16	TCLSLT
ABB046_2-6	6	2	6		8062.9	0.39%			0.24	0.34	10	2	0.58	TCLSLT
ABB056_2-6	6	2	6		9398.0	0.00%			0.08	0.17	15	3	0.25	TCLSLT
ABB066_2-6	6	2	6		8112.2	0.00%			0.11	0.15	10	2	0.26	TCLSLT
ABB076_2-6	6	2	6		9178.5	0.00%			0.10	0.07	5	1	0.17	TCLSLT
ABB086_2-6	6	2	6		8202.5	0.00%			0.07	0.12	10	2	0.19	TCLSLT
ABB096_2-6	6	2	6		7159.3	0.10%			0.06	0.04	5	1	0.10	TCLSLT
ABB0012_2-6	6	2	12		15715.0	0.00%			0.46	2.42	34	6	2.89	TCLSLT
ABB0112_2-6	6	2	12		13458.1	0.00%			0.22	0.37	11	2	0.59	TCLSLT
ABB0212_2-6	6	2	12		14950.3	0.00%			0.35	1.94	28	5	2.29	TCLSLT
ABB0412_2-6	6	2	12		14148.7	0.06%			0.45	2.43	28	5	2.89	TCLSLT
ABB0512_2-6	6	2	12		17484.8	0.05%			0.21	0.37	17	3	0.57	TCLSLT
ABB0612_2-6	6	2	12		15084.0	0.00%			0.22	0.61	17	3	0.83	TCLSLT
ABB0712_2-6	6	2	12		16715.8	0.02%			0.28	1.22	28	5	1.50	TCLSLT
ABB0812_2-6	6	2	12		14192.0	0.04%			0.24	0.47	17	3	0.71	TCLSLT
ABB0912_2-6	6	2	12		16158.4	0.00%			0.23	0.71	28	5	0.94	TCLSLT
ABB0018_2-6	6	2	18		22001.6	0.24%			1.42	3.37	22	3	4.79	TCLSLT
ABB0118_2-6	6	2	18		20184.6	0.00%			0.36	0.84	30	4	1.20	TCLSLT
ABB0218_2-6	6	2	18		22600.6	0.04%			0.59	2.00	30	4	2.60	TCLSLT
ABB0418_2-6	6	2	18		20388.6	0.00%			1.00	4.45	52	7	5.45	TCLSLT
ABB0518_2-6	6	2	18		25198.4	0.00%			0.52	1.75	30	4	2.27	TCLSLT
ABB0618_2-6	6	2	18		22943.8	0.00%			0.60	1.28	22	3	1.88	TCLSLT
ABB0718_2-6	6	2	18		24518.6	0.06%			0.78	2.10	22	3	2.88	TCLSLT
ABB0818_2-6	6	2	18		21002.8	0.15%			0.53	3.03	44	6	3.56	TCLSLT
ABB0918_2-6	6	2	18		22508.0	0.00%			0.38	0.84	22	3	1.22	TCLSLT
ABB006_2-12	12	2	6		12764.4	0.10%			0.16	0.21	10	2	0.37	TCLSLT
ABB016_2-12	12	2	6		14316.4	0.00%			0.16	0.19	10	2	0.36	TCLSLT
ABB026_2-12	12	2	6		14399.2	0.11%			0.22	0.26	10	2	0.49	TCLSLT
ABB036_2-12	12	2	6		16394.0	0.00%			0.17	0.17	10	2	0.34	TCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB046_2-12	12	2	6		14305.2	0.17%			0.24	0.54	15	3	0.78	TCLSLT
ABB056_2-12	12	2	6		16645.2	0.12%			0.18	0.15	5	1	0.34	TCLSLT
ABB066_2-12	12	2	6		13856.2	0.07%			0.22	0.12	10	2	0.34	TCLSLT
ABB076_2-12	12	2	6		15473.8	0.06%			0.19	0.21	10	2	0.40	TCLSLT
ABB086_2-12	12	2	6		12982.3	0.00%			0.20	0.26	10	2	0.47	TCLSLT
ABB096_2-12	12	2	6		16046.8	0.09%			0.37	0.25	5	1	0.62	TCLSLT
ABB0012_2-12	12	2	12		26301.0	0.07%			0.23	0.52	11	2	0.75	TCLSLT
ABB0112_2-12	12	2	12		27509.7	0.00%			0.30	2.08	34	6	2.39	TCLSLT
ABB0212_2-12	12	2	12		27436.1	0.16%			0.75	3.09	23	4	3.84	TCLSLT
ABB0312_2-12	12	2	12		31850.2	0.00%			0.46	2.07	28	5	2.52	TCLSLT
ABB0412_2-12	12	2	12		28364.6	0.02%			0.45	1.03	17	3	1.47	TCLSLT
ABB0512_2-12	12	2	12		32200.7	0.00%			0.50	3.31	46	8	3.81	TCLSLT
ABB0612_2-12	12	2	12		27346.8	0.00%			0.41	1.93	40	7	2.34	TCLSLT
ABB0712_2-12	12	2	12		30564.3	0.00%			0.40	1.77	28	5	2.16	TCLSLT
ABB0812_2-12	12	2	12		26772.7	0.10%			0.54	2.35	34	6	2.89	TCLSLT
ABB0912_2-12	12	2	12		31318.2	0.24%			1.89	4.10	23	4	6.00	TCLSLT
ABB0118_2-12	12	2	18		40650.2	0.07%			1.43	5.89	36	5	7.33	TCLSLT
ABB0218_2-12	12	2	18		42006.5	0.11%			1.76	11.83	36	5	13.59	TCLSLT
ABB0318_2-12	12	2	18		46479.3	0.16%			1.87	4.54	22	3	6.41	TCLSLT
ABB0418_2-12	12	2	18		44288.4	0.02%			1.18	5.75	52	7	6.92	TCLSLT
ABB0518_2-12	12	2	18		47456.9	0.10%			1.45	3.99	30	4	5.44	TCLSLT
ABB0618_2-12	12	2	18		40776.3	0.05%			0.85	2.12	22	3	2.97	TCLSLT
ABB0718_2-12	12	2	18		45510.8	0.00%			1.02	2.41	30	4	3.44	TCLSLT
ABB0818_2-12	12	2	18		41460.9	0.02%			1.75	4.09	30	4	5.84	TCLSLT
ABB0918_2-12	12	2	18		47590.9	0.29%			7.58	14.93	36	5	22.52	TCLSLT
ABB006_2-25	25	2	6		29219.5	0.00%			0.29	0.34	15	3	0.62	TCLSLT
ABB016_2-25	25	2	6		29996.3	0.14%			0.51	0.89	20	4	1.40	TCLSLT
ABB026_2-25	25	2	6		28785.3	0.04%			0.58	0.27	5	1	0.85	TCLSLT
ABB036_2-25	25	2	6		30291.7	0.05%			1.26	0.87	15	3	2.13	TCLSLT
ABB046_2-25	25	2	6		31559.0	0.05%			0.40	0.58	10	2	0.97	TCLSLT
ABB056_2-25	25	2	6		31752.9	0.02%			1.00	1.71	15	3	2.70	TCLSLT
ABB066_2-25	25	2	6		27896.2	0.00%			0.23	0.21	10	2	0.44	TCLSLT
ABB076_2-25	25	2	6		31449.9	0.04%			0.68	0.63	10	2	1.31	TCLSLT
ABB086_2-25	25	2	6		32385.9	0.11%			0.59	1.05	10	2	1.64	TCLSLT
ABB096_2-25	25	2	6		33506.0	0.11%			0.86	0.61	10	2	1.47	TCLSLT
ABB0012_2-25	25	2	12		58340.7	0.02%			1.19	6.54	34	6	7.74	TCLSLT
ABB0112_2-25	25	2	12		61118.9	0.05%			2.73	10.05	28	5	12.78	TCLSLT
ABB0212_2-25	25	2	12		56461.4	0.04%			1.00	6.44	40	7	7.44	TCLSLT
ABB0312_2-25	25	2	12		59385.4	0.12%			1.78	24.91	34	6	26.69	TCLSLT
ABB0412_2-25	25	2	12		59893.9	0.06%			1.22	2.73	23	4	3.95	TCLSLT
ABB0512_2-25	25	2	12		65390.3	0.17%			4.70	32.51	28	5	37.21	TCLSLT
ABB0612_2-25	25	2	12		57277.3	0.00%			0.45	1.04	23	4	1.48	TCLSLT
ABB0712_2-25	25	2	12		62952.6	0.08%			2.12	5.86	28	5	7.98	TCLSLT
ABB0812_2-25	25	2	12		63128.5	0.07%			5.39	15.48	23	4	20.87	TCLSLT
ABB0912_2-25	25	2	12		64152.6	0.07%			2.29	15.18	28	5	17.47	TCLSLT
ABB0018_2-25	25	2	18		87097.0	0.00%			1.29	3.36	30	4	4.65	TCLSLT
ABB0118_2-25	25	2	18		88756.4	0.07%			4.59	5.52	22	3	10.12	TCLSLT
ABB0218_2-25	25	2	18		83541.6	0.05%			3.49	10.12	44	6	13.61	TCLSLT
ABB0318_2-25	25	2	18		91593.6	0.07%			9.26	62.96	52	7	72.22	TCLSLT
ABB0418_2-25	25	2	18		90844.7	0.05%			2.80	8.24	30	4	11.04	TCLSLT
ABB0518_2-25	25	2	18		95590.8	0.16%			19.13	129.08	52	7	148.21	TCLSLT
ABB0618_2-25	25	2	18		83642.2	0.03%			1.63	2.33	22	3	3.96	TCLSLT
ABB0718_2-25	25	2	18		92461.6	0.09%			14.40	50.76	36	5	65.16	TCLSLT
ABB0818_2-25	25	2	18		91826.0	0.08%			11.30	63.58	44	6	74.88	TCLSLT
ABB0918_2-25	25	2	18		93412.4	0.07%			4.10	10.41	30	4	14.51	TCLSLT
ABB006_2-50	50	2	6		58887.6	0.07%			0.71	0.68	10	2	1.39	TCLSLT
ABB016_2-50	50	2	6		60398.7	0.04%			0.55	0.53	10	2	1.08	TCLSLT
ABB026_2-50	50	2	6		56488.6	0.10%			1.50	1.20	10	2	2.70	TCLSLT
ABB036_2-50	50	2	6		59494.3	0.06%			0.72	0.86	10	2	1.59	TCLSLT
ABB046_2-50	50	2	6		61258.7	0.07%			1.77	3.82	15	3	5.59	TCLSLT
ABB056_2-50	50	2	6		59591.0	0.06%			0.87	1.48	15	3	2.35	TCLSLT
ABB066_2-50	50	2	6		56231.2	0.10%			0.82	0.84	10	2	1.66	TCLSLT
ABB076_2-50	50	2	6		59168.6	0.08%			1.31	0.36	5	1	1.67	TCLSLT
ABB086_2-50	50	2	6		60201.8	0.02%			1.15	1.15	10	2	2.30	TCLSLT
ABB096_2-50	50	2	6		60846.4	0.07%			1.05	0.74	10	2	1.79	TCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0012_2-50	50	2	12		117391.0	0.00%			1.55	12.07	39	7	13.63	TCLSLT
ABB0112_2-50	50	2	12		119977.0	0.00%			1.51	4.16	34	6	5.67	TCLSLT
ABB0212_2-50	50	2	12		114345.0	0.02%			9.86	26.73	40	7	36.60	TCLSLT
ABB0312_2-50	50	2	12		120126.8	0.02%			1.97	6.07	34	6	8.03	TCLSLT
ABB0412_2-50	50	2	12		122587.8	0.03%			9.04	34.26	40	7	43.30	TCLSLT
ABB0512_2-50	50	2	12		119634.3	0.01%			2.39	17.63	34	6	20.03	TCLSLT
ABB0612_2-50	50	2	12		113734.3	0.00%			1.79	9.69	62	11	11.48	TCLSLT
ABB0712_2-50	50	2	12		115020.0	0.01%			5.40	23.97	34	6	29.37	TCLSLT
ABB0812_2-50	50	2	12		115722.3	0.04%			4.19	28.87	63	11	33.06	TCLSLT
ABB0912_2-50	50	2	12		122624.9	0.00%			3.03	7.63	34	6	10.66	TCLSLT
ABB0018_2-50	50	2	18		175833.3	0.01%			4.23	4.36	30	4	8.60	TCLSLT
ABB0118_2-50	50	2	18		178905.5	0.01%			5.30	13.02	44	6	18.32	TCLSLT
ABB0218_2-50	50	2	18		170087.4	0.03%			15.76	95.97	60	8	111.73	TCLSLT
ABB0318_2-50	50	2	18		181251.6	0.02%			13.90	50.12	74	10	64.02	TCLSLT
ABB0418_2-50	50	2	18		182940.7	0.06%			38.12	169.96	54	7	208.09	TCLSLT
ABB0518_2-50	50	2	18		181350.0	0.01%			10.90	27.15	30	4	38.05	TCLSLT
ABB0618_2-50	50	2	18		171902.0	0.00%			6.18	8.45	36	5	14.63	TCLSLT
ABB0718_2-50	50	2	18		172683.1	0.01%			9.36	41.52	68	9	50.88	TCLSLT
ABB0818_2-50	50	2	18		173956.1	0.03%			13.33	27.92	44	6	41.24	TCLSLT
ABB0918_2-50	50	2	18		183309.6	0.02%			18.28	130.65	68	9	148.93	TCLSLT
ABB006_4-6	6	4	6		6470.9	0.20%			0.17	0.13	5	1	0.30	TCLSLT
ABB016_4-6	6	4	6		7416.4	0.00%			0.27	0.45	10	2	0.72	TCLSLT
ABB026_4-6	6	4	6		7463.2	0.00%			0.14	0.36	15	3	0.50	TCLSLT
ABB036_4-6	6	4	6		6820.0	0.00%			0.14	0.07	5	1	0.22	TCLSLT
ABB046_4-6	6	4	6		5688.1	0.11%			0.14	0.11	5	1	0.26	TCLSLT
ABB056_4-6	6	4	6		8022.7	0.04%			0.24	0.33	10	2	0.57	TCLSLT
ABB066_4-6	6	4	6		6528.9	0.38%			0.23	0.08	5	1	0.31	TCLSLT
ABB076_4-6	6	4	6		7824.3	0.00%			0.16	0.08	5	1	0.24	TCLSLT
ABB086_4-6	6	4	6		5917.1	0.00%			0.13	0.10	10	2	0.23	TCLSLT
ABB096_4-6	6	4	6		8624.6	0.15%			0.14	0.23	10	2	0.37	TCLSLT
ABB0012_4-6	6	4	12		11951.3	0.00%			0.20	0.49	17	3	0.69	TCLSLT
ABB0112_4-6	6	4	12		15530.8	0.00%			0.70	4.90	34	6	5.60	TCLSLT
ABB0212_4-6	6	4	12		14793.4	0.00%			0.45	3.04	40	7	3.49	TCLSLT
ABB0312_4-6	6	4	12		14718.6	0.00%			0.33	0.48	11	2	0.81	TCLSLT
ABB0412_4-6	6	4	12		13197.0	0.00%			0.98	1.32	11	2	2.29	TCLSLT
ABB0512_4-6	6	4	12		16257.7	0.00%			1.96	4.08	23	4	6.04	TCLSLT
ABB0612_4-6	6	4	12		12954.4	0.00%			0.35	0.60	17	3	0.95	TCLSLT
ABB0712_4-6	6	4	12		14884.5	0.00%			0.26	1.19	28	5	1.45	TCLSLT
ABB0812_4-6	6	4	12		12642.1	0.35%			0.42	0.86	17	3	1.28	TCLSLT
ABB0912_4-6	6	4	12		15116.9	0.00%			0.35	1.39	28	5	1.75	TCLSLT
ABB0018_4-6	6	4	18		18918.2	0.00%			0.96	2.23	14	2	3.19	TCLSLT
ABB0118_4-6	6	4	18		22172.5	0.06%			1.74	3.84	22	3	5.59	TCLSLT
ABB0218_4-6	6	4	18		21741.8	0.03%			0.98	3.87	30	4	4.84	TCLSLT
ABB0318_4-6	6	4	18		22543.4	0.01%			1.04	2.93	30	4	3.97	TCLSLT
ABB0418_4-6	6	4	18		20284.7	0.00%			1.09	2.30	22	3	3.39	TCLSLT
ABB0518_4-6	6	4	18		24088.7	0.32%			4.10	9.50	22	3	13.60	TCLSLT
ABB0618_4-6	6	4	18		20158.6	0.01%			1.27	2.79	30	4	4.07	TCLSLT
ABB0718_4-6	6	4	18		22690.3	0.00%			0.67	1.67	22	3	2.34	TCLSLT
ABB0818_4-6	6	4	18		18410.0	0.02%			0.88	1.62	22	3	2.50	TCLSLT
ABB0918_4-6	6	4	18		22391.8	0.00%			0.79	1.17	22	3	1.95	TCLSLT
ABB006_4-12	12	4	6		13452.7	0.05%			0.63	0.67	10	2	1.30	TCLSLT
ABB016_4-12	12	4	6		15659.3	0.06%			0.72	1.49	15	3	2.21	TCLSLT
ABB026_4-12	12	4	6		13235.9	0.00%			0.25	0.52	10	2	0.77	TCLSLT
ABB036_4-12	12	4	6		12477.0	0.08%			0.38	0.59	10	2	0.97	TCLSLT
ABB046_4-12	12	4	6		14507.0	0.16%			0.38	0.27	5	1	0.64	TCLSLT
ABB056_4-12	12	4	6		14340.8	0.00%			1.06	1.01	10	2	2.07	TCLSLT
ABB066_4-12	12	4	6		12711.2	0.11%			0.24	0.34	15	3	0.58	TCLSLT
ABB076_4-12	12	4	6		12612.6	0.05%			0.43	0.26	5	1	0.69	TCLSLT
ABB086_4-12	12	4	6		14773.6	0.02%			0.27	0.46	10	2	0.73	TCLSLT
ABB096_4-12	12	4	6		13408.5	0.19%			0.68	0.39	5	1	1.07	TCLSLT
ABB0012_4-12	12	4	12		25179.4	0.13%			1.76	6.22	17	3	7.98	TCLSLT
ABB0112_4-12	12	4	12		29038.2	0.41%			10.71	58.18	51	9	68.89	TCLSLT
ABB0212_4-12	12	4	12		26756.0	0.02%			1.24	6.34	17	3	7.58	TCLSLT
ABB0312_4-12	12	4	12		25865.1	0.23%			1.30	4.33	17	3	5.63	TCLSLT
ABB0412_4-12	12	4	12		27599.0	0.00%			1.00	5.60	28	5	6.60	TCLSLT

Continua na Próxima Página

Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0512_4-12	12	4	12		28241.2	0.17%			2.65	29.92	28	5	32.57	TCLSLT
ABB0612_4-12	12	4	12		24754.1	0.00%			0.40	1.01	17	3	1.42	TCLSLT
ABB0712_4-12	12	4	12		26651.4	0.02%			1.47	11.66	51	9	13.13	TCLSLT
ABB0812_4-12	12	4	12		28382.3	0.03%			0.88	5.52	34	6	6.40	TCLSLT
ABB0912_4-12	12	4	12		29012.9	0.39%			9.14	21.28	17	3	30.42	TCLSLT
ABB0018_4-12	12	4	18		38888.6	0.21%			11.84	25.06	22	3	36.90	TCLSLT
ABB0118_4-12	12	4	18		42631.1	0.30%			17.22	44.83	22	3	62.05	TCLSLT
ABB0218_4-12	12	4	18		39696.5	0.02%			2.74	9.07	22	3	11.81	TCLSLT
ABB0318_4-12	12	4	18		40317.2	0.44%			16.65	59.63	30	4	76.28	TCLSLT
ABB0418_4-12	12	4	18		41080.0	0.13%			4.84	13.41	36	5	18.25	TCLSLT
ABB0518_4-12	12	4	18		41414.6	0.15%			7.35	16.77	22	3	24.12	TCLSLT
ABB0618_4-12	12	4	18		37393.7	0.00%			1.53	8.61	50	7	10.15	TCLSLT
ABB0718_4-12	12	4	18		41689.4	0.17%			12.67	21.14	22	3	33.81	TCLSLT
ABB0818_4-12	12	4	18		43209.5	0.18%			3.70	34.64	66	9	38.34	TCLSLT
ABB0918_4-12	12	4	18		42097.8	0.34%			8.34	35.28	22	3	43.62	TCLSLT
ABB006_4-25	25	4	6		25707.3	0.00%			0.60	0.47	10	2	1.07	TCLSLT
ABB016_4-25	25	4	6		29631.1	0.02%			0.61	0.77	10	2	1.38	TCLSLT
ABB026_4-25	25	4	6		27853.7	0.00%			2.65	3.65	10	2	6.29	TCLSLT
ABB036_4-25	25	4	6		26339.5	0.18%			4.19	2.99	10	2	7.17	TCLSLT
ABB046_4-25	25	4	6		26822.8	0.24%			0.33	0.61	10	2	0.94	TCLSLT
ABB056_4-25	25	4	6		30269.9	0.00%			1.19	0.68	10	2	1.87	TCLSLT
ABB066_4-25	25	4	6		25489.2	0.06%			0.66	0.52	10	2	1.19	TCLSLT
ABB076_4-25	25	4	6		27342.9	0.08%			5.16	0.89	5	1	6.06	TCLSLT
ABB086_4-25	25	4	6		26356.5	0.02%			0.59	0.69	10	2	1.28	TCLSLT
ABB096_4-25	25	4	6		28077.8	0.00%			1.39	1.26	15	3	2.65	TCLSLT
ABB0012_4-25	25	4	12		54088.7	0.15%			12.97	79.59	34	6	92.56	TCLSLT
ABB0112_4-25	25	4	12		56537.5	0.00%			3.70	9.08	34	6	12.77	TCLSLT
ABB0212_4-25	25	4	12		53635.9	0.20%			9.72	35.49	17	3	45.22	TCLSLT
ABB0312_4-25	25	4	12		54451.2	0.15%			7.77	47.08	28	5	54.85	TCLSLT
ABB0412_4-25	25	4	12		55101.9	0.01%			3.04	3.02	17	3	6.06	TCLSLT
ABB0512_4-25	25	4	12		57290.0	0.00%			7.82	36.28	34	6	44.11	TCLSLT
ABB0612_4-25	25	4	12		50874.0	0.03%			1.77	6.69	28	5	8.46	TCLSLT
ABB0712_4-25	25	4	12		55949.4	0.16%			15.25	119.73	45	8	134.99	TCLSLT
ABB0812_4-25	25	4	12		54342.6	0.02%			11.69	39.00	28	5	50.69	TCLSLT
ABB0912_4-25	25	4	12		55286.9	0.22%			15.41	89.25	34	6	104.65	TCLSLT
ABB0018_4-25	25	4	18		78517.4	0.12%			20.25	109.76	52	7	130.01	TCLSLT
ABB0118_4-25	25	4	18		84169.5	0.06%			11.55	29.79	36	5	41.34	TCLSLT
ABB0218_4-25	25	4	18		81371.6	0.18%			35.69	215.76	52	7	251.45	TCLSLT
ABB0318_4-25	25	4	18		80991.2	0.17%			22.18	48.65	22	3	70.83	TCLSLT
ABB0418_4-25	25	4	18		83484.4	0.01%			6.76	8.32	22	3	15.07	TCLSLT
ABB0518_4-25	25	4	18		84676.3	0.08%			17.04	47.38	30	4	64.42	TCLSLT
ABB0618_4-25	25	4	18		77591.5	0.02%			4.91	8.48	30	4	13.39	TCLSLT
ABB0718_4-25	25	4	18		83271.5	0.22%			46.33	155.76	30	4	202.09	TCLSLT
ABB0818_4-25	25	4	18		78766.7	0.08%			9.69	25.09	30	4	34.78	TCLSLT
ABB0918_4-25	25	4	18		82797.9	0.13%			28.27	44.94	22	3	73.21	TCLSLT
ABB006_4-50	50	4	6		54808.5	0.05%			1.48	4.64	10	2	6.12	TCLSLT
ABB016_4-50	50	4	6		55550.9	0.02%			2.32	1.52	10	2	3.84	TCLSLT
ABB026_4-50	50	4	6		56255.2	0.04%			3.16	4.48	20	4	7.64	TCLSLT
ABB036_4-50	50	4	6		55554.5	0.06%			3.22	11.25	15	3	14.47	TCLSLT
ABB046_4-50	50	4	6		57303.4	0.13%			17.23	58.58	30	6	75.81	TCLSLT
ABB056_4-50	50	4	6		57520.5	0.03%			5.51	8.89	20	4	14.40	TCLSLT
ABB066_4-50	50	4	6		53000.1	0.03%			1.71	3.40	20	4	5.11	TCLSLT
ABB076_4-50	50	4	6		51899.5	0.08%			3.92	5.20	15	3	9.12	TCLSLT
ABB086_4-50	50	4	6		53126.3	0.06%			3.76	1.50	10	2	5.26	TCLSLT
ABB096_4-50	50	4	6		60323.2	0.08%			2.57	2.96	15	3	5.53	TCLSLT
ABB0012_4-50	50	4	12		110825.6	0.07%			17.91	41.42	17	3	59.33	TCLSLT
ABB0112_4-50	50	4	12		108661.7	0.06%			4.31	34.00	57	10	38.31	TCLSLT
ABB0212_4-50	50	4	12		108287.2	0.05%			12.56	66.21	34	6	78.77	TCLSLT
ABB0312_4-50	50	4	12		110650.0	0.09%			20.33	97.71	40	7	118.04	TCLSLT
ABB0412_4-50	50	4	12		110159.5	0.08%			22.62	77.89	34	6	100.51	TCLSLT
ABB0512_4-50	50	4	12		112150.0	0.01%			7.61	19.39	34	6	27.00	TCLSLT
ABB0612_4-50	50	4	12		104195.5	0.04%			1.79	5.99	28	5	7.78	TCLSLT
ABB0712_4-50	50	4	12		107081.2	0.12%			26.00	114.88	35	6	140.87	TCLSLT
ABB0812_4-50	50	4	12		106686.7	0.03%			4.69	16.02	40	7	20.72	TCLSLT
ABB0912_4-50	50	4	12		114607.7	0.06%			11.22	56.85	28	5	68.07	TCLSLT

Continua na Próxima Página

Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0018_4-50	50	4	18		160436.3	0.05%			22.20	88.44	36	5	110.64	TCLSLT
ABB0118_4-50	50	4	18		162043.4	0.03%			25.84	46.45	44	6	72.29	TCLSLT
ABB0218_4-50	50	4	18		163370.1	0.03%			28.99	70.42	30	4	99.42	TCLSLT
ABB0318_4-50	50	4	18		163959.0	0.11%			53.81	99.69	22	3	153.49	TCLSLT
ABB0418_4-50	50	4	18		167291.3	0.12%			55.37	201.39	38	5	256.76	TCLSLT
ABB0518_4-50	50	4	18		168404.1	0.05%			24.61	60.54	30	4	85.15	TCLSLT
ABB0618_4-50	50	4	18		156616.9	0.06%			24.03	41.87	30	4	65.90	TCLSLT
ABB0718_4-50	50	4	18		162341.2	0.08%			48.53	234.70	60	8	283.23	TCLSLT
ABB0818_4-50	50	4	18		157567.4	0.03%			16.17	26.96	30	4	43.12	TCLSLT
ABB0918_4-50	50	4	18		168771.1	0.05%			25.96	57.92	30	4	83.88	TCLSLT
ABB006_6-6	6	6	6		5808.9	0.00%			0.11	0.16	10	2	0.27	TCLSLT
ABB026_6-6	6	6	6		7102.0	0.00%			0.17	0.18	10	2	0.34	TCLSLT
ABB036_6-6	6	6	6		7664.4	0.34%			0.15	0.10	5	1	0.26	TCLSLT
ABB046_6-6	6	6	6		8264.1	0.00%			0.17	0.10	5	1	0.28	TCLSLT
ABB056_6-6	6	6	6		8225.7	0.27%			0.31	0.15	5	1	0.46	TCLSLT
ABB066_6-6	6	6	6		6872.6	0.06%			0.23	0.30	10	2	0.52	TCLSLT
ABB076_6-6	6	6	6		7942.5	0.00%			0.25	0.19	10	2	0.43	TCLSLT
ABB086_6-6	6	6	6		6933.5	0.00%			0.27	0.49	20	4	0.76	TCLSLT
ABB096_6-6	6	6	6		7803.0	0.20%			0.51	0.42	10	2	0.93	TCLSLT
ABB0012_6-6	6	6	12		12392.7	0.00%			0.26	0.68	22	4	0.94	TCLSLT
ABB0212_6-6	6	6	12		14581.9	0.00%			0.57	1.42	23	4	1.98	TCLSLT
ABB0312_6-6	6	6	12		15080.3	0.01%			0.35	0.74	17	3	1.09	TCLSLT
ABB0412_6-6	6	6	12		15453.4	0.02%			1.07	2.17	17	3	3.24	TCLSLT
ABB0512_6-6	6	6	12		15019.5	0.00%			0.50	1.65	35	6	2.14	TCLSLT
ABB0612_6-6	6	6	12		13133.9	0.00%			0.90	2.49	17	3	3.39	TCLSLT
ABB0712_6-6	6	6	12		15510.8	0.00%			0.34	0.78	17	3	1.13	TCLSLT
ABB0812_6-6	6	6	12		13025.1	0.07%			0.66	5.13	28	5	5.79	TCLSLT
ABB0912_6-6	6	6	12		14791.0	0.12%			0.60	2.74	17	3	3.33	TCLSLT
ABB0018_6-6	6	6	18		18384.6	0.00%			0.52	0.82	22	3	1.35	TCLSLT
ABB0218_6-6	6	6	18		20319.5	0.01%			0.77	1.20	22	3	1.97	TCLSLT
ABB0318_6-6	6	6	18		21090.5	0.00%			0.86	1.76	22	3	2.63	TCLSLT
ABB0418_6-6	6	6	18		23159.0	0.05%			2.65	9.11	44	6	11.76	TCLSLT
ABB0518_6-6	6	6	18		22881.4	0.01%			1.49	3.07	22	3	4.57	TCLSLT
ABB0618_6-6	6	6	18		20657.1	0.01%			2.82	9.20	44	6	12.02	TCLSLT
ABB0718_6-6	6	6	18		22420.6	0.00%			1.10	1.62	22	3	2.72	TCLSLT
ABB0818_6-6	6	6	18		20798.2	0.05%			2.10	4.32	46	6	6.42	TCLSLT
ABB0918_6-6	6	6	18		22349.0	0.01%			4.31	16.31	44	6	20.63	TCLSLT
ABB006_6-12	12	6	6		12926.7	0.00%			0.67	0.99	15	3	1.66	TCLSLT
ABB016_6-12	12	6	6		13336.3	0.05%			0.53	1.46	15	3	1.99	TCLSLT
ABB026_6-12	12	6	6		12238.9	0.00%			0.43	0.34	5	1	0.77	TCLSLT
ABB036_6-12	12	6	6		13147.8	0.00%			0.27	0.62	15	3	0.89	TCLSLT
ABB046_6-12	12	6	6		12862.7	0.00%			0.47	0.24	5	1	0.71	TCLSLT
ABB056_6-12	12	6	6		12460.3	0.00%			0.35	0.41	10	2	0.76	TCLSLT
ABB066_6-12	12	6	6		11846.3	0.00%			0.55	0.22	5	1	0.76	TCLSLT
ABB076_6-12	12	6	6		13867.3	0.06%			1.51	0.68	5	1	2.19	TCLSLT
ABB086_6-12	12	6	6		13748.7	0.30%			1.05	1.65	15	3	2.69	TCLSLT
ABB096_6-12	12	6	6		14622.6	0.10%			0.92	1.93	20	4	2.86	TCLSLT
ABB0012_6-12	12	6	12		24484.2	0.00%			1.24	3.55	17	3	4.79	TCLSLT
ABB0112_6-12	12	6	12		26017.0	0.01%			3.65	19.94	28	5	23.58	TCLSLT
ABB0212_6-12	12	6	12		24528.5	0.00%			7.82	37.11	40	7	44.93	TCLSLT
ABB0312_6-12	12	6	12		26919.5	0.00%			1.28	11.76	28	5	13.04	TCLSLT
ABB0412_6-12	12	6	12		25240.2	0.00%			1.01	2.14	11	2	3.15	TCLSLT
ABB0512_6-12	12	6	12		26668.5	0.08%			2.50	13.56	17	3	16.06	TCLSLT
ABB0612_6-12	12	6	12		23900.8	0.00%			1.59	5.43	23	4	7.02	TCLSLT
ABB0712_6-12	12	6	12		28616.9	0.37%			14.79	56.52	28	5	71.31	TCLSLT
ABB0812_6-12	12	6	12		26498.1	0.35%			3.48	34.52	34	6	38.00	TCLSLT
ABB0912_6-12	12	6	12		27765.5	0.15%			2.49	8.85	17	3	11.33	TCLSLT
ABB0018_6-12	12	6	18		36869.7	0.00%			3.85	10.24	44	6	14.09	TCLSLT
ABB0118_6-12	12	6	18		41708.6	0.09%			5.31	22.44	36	5	27.75	TCLSLT
ABB0218_6-12	12	6	18		37564.3	0.27%			25.51	45.73	22	3	71.24	TCLSLT
ABB0318_6-12	12	6	18		38923.6	0.00%			3.75	13.23	44	6	16.98	TCLSLT
ABB0418_6-12	12	6	18		37300.9	0.00%			2.75	3.73	14	2	6.48	TCLSLT
ABB0518_6-12	12	6	18		41016.8	0.08%			6.49	19.25	30	4	25.74	TCLSLT
ABB0618_6-12	12	6	18		37896.8	0.15%			13.04	29.64	22	3	42.68	TCLSLT
ABB0718_6-12	12	6	18		42284.2	0.39%			21.98	65.95	22	3	87.93	TCLSLT

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Tabela VI - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0818_6-12	12	6	18		40336.2	0.59%			43.08	104.97	22	3	148.05	TCLSLT
ABB0918_6-12	12	6	18		41854.0	0.27%			18.68	47.44	22	3	66.12	TCLSLT
ABB006_6-25	25	6	6		25931.1	0.07%			3.16	12.33	10	2	15.49	TCLSLT
ABB016_6-25	25	6	6		25679.0	0.31%			12.28	10.68	15	3	22.96	TCLSLT
ABB026_6-25	25	6	6		26967.3	0.09%			1.24	0.87	5	1	2.11	TCLSLT
ABB036_6-25	25	6	6		27197.5	0.20%			6.44	8.85	10	2	15.29	TCLSLT
ABB046_6-25	25	6	6		28834.9	0.26%			16.87	23.00	15	3	39.87	TCLSLT
ABB056_6-25	25	6	6		26531.5	0.08%			6.15	6.73	10	2	12.88	TCLSLT
ABB066_6-25	25	6	6		25479.1	0.00%			0.73	1.14	10	2	1.88	TCLSLT
ABB076_6-25	25	6	6		28134.5	0.00%			3.53	1.45	10	2	4.99	TCLSLT
ABB086_6-25	25	6	6		26913.1	0.15%			11.10	15.24	10	2	26.35	TCLSLT
ABB096_6-25	25	6	6		26571.9	0.00%			5.21	0.85	5	1	6.06	TCLSLT
ABB0012_6-25	25	6	12		52887.8	0.33%			17.12	59.01	17	3	76.14	TCLSLT
ABB0112_6-25	25	6	12		53088.9	0.28%			33.30	188.46	46	8	221.75	TCLSLT
ABB0212_6-25	25	6	12		54310.8	0.15%			13.05	74.62	40	7	87.68	TCLSLT
ABB0312_6-25	25	6	12		53180.1	0.51%			43.23	423.07	57	10	466.30	TCLSLT
ABB0412_6-25	25	6	12		56467.8	0.28%			46.19	193.54	29	5	239.74	TCLSLT
ABB0512_6-25	25	6	12		52134.3	0.16%			18.20	53.57	23	4	71.77	TCLSLT
ABB0612_6-25	25	6	12		51221.9	0.00%			4.90	8.75	17	3	13.65	TCLSLT
ABB0712_6-25	25	6	12		53139.1	0.20%			25.32	55.61	23	4	80.93	TCLSLT
ABB0812_6-25	25	6	12		51556.8	0.12%			20.25	83.57	40	7	103.82	TCLSLT
ABB0912_6-25	25	6	12		54000.6	0.12%			14.58	68.29	34	6	82.87	TCLSLT
ABB0018_6-25	25	6	18		77137.4	0.34%			60.95	268.36	38	5	329.30	TCLSLT
ABB0118_6-25	25	6	18		79997.3	0.24%			72.02	295.67	38	5	367.69	TCLSLT
ABB0218_6-25	25	6	18		82237.8	0.22%			58.39	104.24	22	3	162.63	TCLSLT
ABB0318_6-25	25	6	18		80908.6	0.56%			80.16	519.85	54	7	600.01	TCLSLT
ABB0418_6-25	25	6	18		85558.3	0.23%			80.29	205.26	22	3	285.55	TCLSLT
ABB0518_6-25	25	6	18		81530.8	0.25%			62.07	268.07	46	6	330.14	TCLSLT
ABB0618_6-25	25	6	18		76562.2	0.02%			18.30	48.43	36	5	66.72	TCLSLT
ABB0718_6-25	25	6	18		78310.5	0.23%			58.60	179.44	30	4	238.04	TCLSLT
ABB0818_6-25	25	6	18		75617.0	0.15%			40.65	84.08	22	3	124.74	TCLSLT
ABB0918_6-25	25	6	18		81836.9	0.15%			53.32	121.47	30	4	174.79	TCLSLT
ABB006_6-50	50	6	6		50846.1	0.09%			13.77	5.39	10	2	19.15	TCLSLT
ABB016_6-50	50	6	6		50952.8	0.06%			16.91	43.24	20	4	60.15	TCLSLT
ABB026_6-50	50	6	6		52534.9	0.12%			17.62	28.33	10	2	45.95	TCLSLT
ABB036_6-50	50	6	6		51950.2	0.11%			7.89	5.34	10	2	13.24	TCLSLT
ABB046_6-50	50	6	6		54439.2	0.23%			28.43	14.12	10	2	42.55	TCLSLT
ABB056_6-50	50	6	6		53088.2	0.08%			15.63	33.11	15	3	48.74	TCLSLT
ABB066_6-50	50	6	6		52430.6	0.15%			21.22	24.43	10	2	45.65	TCLSLT
ABB076_6-50	50	6	6		54130.4	0.00%			2.54	3.34	15	3	5.88	TCLSLT
ABB086_6-50	50	6	6		51243.8	0.09%			19.67	21.89	10	2	41.57	TCLSLT
ABB096_6-50	50	6	6		50901.7	0.05%			10.92	22.41	15	3	33.33	TCLSLT
ABB0012_6-50	50	6	12		102810.8	0.07%			28.01	120.27	34	6	148.28	TCLSLT
ABB0112_6-50	50	6	12		101961.8	0.13%			31.24	129.53	34	6	160.76	TCLSLT
ABB0212_6-50	50	6	12		105745.3	0.17%			47.72	449.01	56	10	496.73	TCLSLT
ABB0312_6-50	50	6	12		103010.4	0.11%			34.02	159.89	46	8	193.91	TCLSLT
ABB0412_6-50	50	6	12		110390.7	0.19%			42.77	168.91	23	4	211.67	TCLSLT
ABB0512_6-50	50	6	12		105925.6	0.12%			27.40	109.61	46	8	137.01	TCLSLT
ABB0612_6-50	50	6	12		102923.0	0.21%			45.82	420.98	57	10	466.80	TCLSLT
ABB0712_6-50	50	6	12		107874.2	0.08%			21.48	142.28	34	6	163.76	TCLSLT
ABB0812_6-50	50	6	12		100277.4	0.08%			22.76	96.32	34	6	119.08	TCLSLT
ABB0912_6-50	50	6	12		102791.5	0.11%			27.28	147.78	52	9	175.06	TCLSLT
ABB0018_6-50	50	6	18		153483.5	0.11%			78.94	429.40	52	7	508.34	TCLSLT
ABB0118_6-50	50	6	18		151573.5	0.09%			62.14	235.35	44	6	297.48	TCLSLT
ABB0218_6-50	50	6	18		155224.1	0.12%			80.43	401.17	46	6	481.60	TCLSLT
ABB0318_6-50	50	6	18		154837.0	0.12%			65.34	401.94	52	7	467.27	TCLSLT
ABB0418_6-50	50	6	18		165805.3	0.18%			80.70	519.32	52	7	600.03	TCLSLT
ABB0518_6-50	50	6	18		156174.6	0.20%			74.35	325.54	38	5	399.89	TCLSLT
ABB0618_6-50	50	6	18		155442.8	0.19%			80.47	519.55	56	8	600.02	TCLSLT
ABB0718_6-50	50	6	18		159473.8	0.07%			62.88	192.46	44	6	255.33	TCLSLT
ABB0818_6-50	50	6	18		151751.6	0.15%			67.99	227.35	38	5	295.35	TCLSLT
ABB0918_6-50	50	6	18		154648.6	0.09%			74.36	525.67	71	10	600.03	TCLSLT

Tabela VII: Resultados por instância ($m/r/n$) - $HCG_{pd}FO$

Instância	N	R	M	LI	LS	gap	HCGtime	THtime	Heur. Const.	FOtempo	FOiter	FOrounds	Tempo Total	Classe
NAA006_2-6	6	2	6	13637.5	13637.5	1.06%					10	2	0.26	NCHSHT
NAA016_2-6	6	2	6	11168.2	11168.2	2.92%					15	3	0.50	NCHSHT
NAA026_2-6	6	2	6	14368.7	14368.7	0.64%					15	3	0.30	NCHSHT
NAA036_2-6	6	2	6	14675.0	14675.0	0.57%					15	3	0.32	NCHSHT
NAA046_2-6	6	2	6	15674.7	15674.7	1.83%					15	3	0.42	NCHSHT
NAA056_2-6	6	2	6	17033.5	17033.5	5.23%					10	2	0.21	NCHSHT
NAA066_2-6	6	2	6	16135.1	16135.1	5.01%					15	3	0.53	NCHSHT
NAA076_2-6	6	2	6	16170.5	16170.5	0.33%					15	3	0.35	NCHSHT
NAA086_2-6	6	2	6	12980.2	12980.2	2.63%					15	3	0.30	NCHSHT
NAA096_2-6	6	2	6	12810.1	12810.1	0.90%					20	4	0.35	NCHSHT
NAA0012_2-6	6	2	12	24112.6	24112.6	1.39%					24	4	1.00	NCHSHT
NAA0112_2-6	6	2	12	23135.5	23135.5	0.97%					36	6	1.73	NCHSHT
NAA0212_2-6	6	2	12	26283.1	26283.1	0.19%					18	3	0.58	NCHSHT
NAA0312_2-6	6	2	12	25874.7	25874.7	0.32%					42	7	1.76	NCHSHT
NAA0412_2-6	6	2	12	27197.4	27197.4	6.37%					30	5	2.75	NCHSHT
NAA0512_2-6	6	2	12	30182.5	30182.5	1.30%					36	6	1.92	NCHSHT
NAA0612_2-6	6	2	12	27272.0	27272.0	1.05%					24	4	1.52	NCHSHT
NAA0712_2-6	6	2	12	26482.0	26482.0	0.14%					24	4	1.32	NCHSHT
NAA0812_2-6	6	2	12	22096.1	22096.1	2.09%					12	2	0.47	NCHSHT
NAA0912_2-6	6	2	12	26841.4	26841.4	2.33%					18	3	1.11	NCHSHT
NAA0018_2-6	6	2	18	32551.3	32551.3	0.81%					32	4	3.63	NCHSHT
NAA0118_2-6	6	2	18	33135.8	33135.8	0.56%					32	4	3.13	NCHSHT
NAA0218_2-6	6	2	18	38995.1	38995.1	1.09%					40	5	2.40	NCHSHT
NAA0318_2-6	6	2	18	39338.3	39338.3	0.75%					48	6	4.04	NCHSHT
NAA0418_2-6	6	2	18	36591.2	36591.2	2.10%					40	5	5.86	NCHSHT
NAA0518_2-6	6	2	18	41665.8	41665.8	0.69%					48	6	4.66	NCHSHT
NAA0618_2-6	6	2	18	38072.9	38072.9	0.23%					24	3	2.26	NCHSHT
NAA0718_2-6	6	2	18	38378.4	38378.4	0.67%					48	6	4.02	NCHSHT
NAA0818_2-6	6	2	18	31394.6	31394.6	0.46%					24	3	1.23	NCHSHT
NAA0918_2-6	6	2	18	35469.1	35469.1	0.89%					48	6	3.38	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%					10	2	0.35	NCHSHT
NAA016_2-12	12	2	6	23669.7	23669.7	0.01%					25	5	0.92	NCHSHT
NAA026_2-12	12	2	6	25321.1	25321.1	2.35%					15	3	0.64	NCHSHT
NAA036_2-12	12	2	6	29204.2	29204.2	0.83%					15	3	1.32	NCHSHT
NAA046_2-12	12	2	6	24869.3	24869.3	0.29%					20	4	1.98	NCHSHT
NAA056_2-12	12	2	6	28598.2	28598.2	0.29%					15	3	2.89	NCHSHT
NAA066_2-12	12	2	6	25388.1	25388.1	2.06%					10	2	0.66	NCHSHT
NAA076_2-12	12	2	6	25225.7	25225.7	0.90%					20	4	1.03	NCHSHT
NAA086_2-12	12	2	6	22924.5	22924.5	0.17%					15	3	0.59	NCHSHT
NAA096_2-12	12	2	6	26778.7	26778.7	1.03%					25	5	1.54	NCHSHT
NAA0012_2-12	12	2	12	40464.4	40464.4	0.18%					18	3	1.19	NCHSHT
NAA0112_2-12	12	2	12	41662.7	41662.7	0.91%					18	3	1.54	NCHSHT
NAA0212_2-12	12	2	12	43757.0	43757.0	1.71%					24	4	2.91	NCHSHT
NAA0312_2-12	12	2	12	53838.3	53838.3	2.61%					24	4	3.88	NCHSHT
NAA0412_2-12	12	2	12	45106.5	45106.5	0.51%					24	4	1.42	NCHSHT
NAA0512_2-12	12	2	12	51947.9	51947.9	1.05%					18	3	2.18	NCHSHT
NAA0612_2-12	12	2	12	45697.7	45697.7	1.78%					30	5	3.48	NCHSHT
NAA0712_2-12	12	2	12	47088.0	47088.0	0.90%					18	3	2.10	NCHSHT
NAA0812_2-12	12	2	12	42078.3	42078.3	1.31%					18	3	1.34	NCHSHT
NAA0912_2-12	12	2	12	50529.6	50529.6	1.83%					18	3	2.23	NCHSHT
NAA0018_2-12	12	2	18	59956.6	59956.6	0.40%					32	4	5.83	NCHSHT
NAA0118_2-12	12	2	18	61618.9	61618.9	0.46%					40	5	14.27	NCHSHT
NAA0218_2-12	12	2	18	65144.1	65144.1	0.96%					32	4	9.05	NCHSHT
NAA0318_2-12	12	2	18	74999.6	74999.6	0.48%					32	4	13.25	NCHSHT
NAA0418_2-12	12	2	18	67552.0	67552.0	0.42%					24	3	4.47	NCHSHT
NAA0518_2-12	12	2	18	74028.7	74028.7	0.78%					40	5	12.49	NCHSHT
NAA0618_2-12	12	2	18	65095.8	65095.8	0.33%					40	5	9.75	NCHSHT
NAA0718_2-12	12	2	18	67357.6	67357.6	0.07%					32	4	2.14	NCHSHT
NAA0818_2-12	12	2	18	64111.1	64111.1	0.23%					32	4	6.71	NCHSHT
NAA0918_2-12	12	2	18	72481.1	72481.1	0.47%					40	5	15.12	NCHSHT
NAA006_2-25	25	2	6	47710.7	47710.7	0.13%					10	2	0.92	NCHSHT
NAA016_2-25	25	2	6	48870.2	48870.2	0.40%					10	2	0.86	NCHSHT
NAA026_2-25	25	2	6	50989.0	50989.0	0.42%					20	4	1.99	NCHSHT
NAA036_2-25	25	2	6	52946.6	52946.6	0.54%					10	2	1.07	NCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_2-25	25	2	6	53551.6	53551.6	0.03%					15	3	1.39	NCHSHT
NAA056_2-25	25	2	6	56772.1	56772.1	0.67%					15	3	2.19	NCHSHT
NAA066_2-25	25	2	6	46023.6	46023.6	0.16%					15	3	1.05	NCHSHT
NAA076_2-25	25	2	6	51433.8	51433.8	0.20%					15	3	2.31	NCHSHT
NAA086_2-25	25	2	6	53877.4	53877.4	0.05%					20	4	1.47	NCHSHT
NAA096_2-25	25	2	6	58995.8	58995.8	0.10%					10	2	1.24	NCHSHT
NAA0012_2-25	25	2	12	88754.6	88754.6	0.34%					24	4	6.00	NCHSHT
NAA0112_2-25	25	2	12	94082.0	94082.0	0.35%					24	4	8.27	NCHSHT
NAA0212_2-25	25	2	12	90601.9	90601.9	0.38%					24	4	8.63	NCHSHT
NAA0312_2-25	25	2	12	94486.3	94486.3	0.29%					30	5	13.99	NCHSHT
NAA0412_2-25	25	2	12	92865.7	92865.7	0.01%					30	5	4.31	NCHSHT
NAA0512_2-25	25	2	12	106377.5	106377.5	0.73%					24	4	9.17	NCHSHT
NAA0612_2-25	25	2	12	90056.4	90056.4	0.32%					18	3	3.11	NCHSHT
NAA0712_2-25	25	2	12	95902.4	95902.4	0.06%					18	3	3.07	NCHSHT
NAA0812_2-25	25	2	12	98231.2	98231.2	0.33%					24	4	6.37	NCHSHT
NAA0912_2-25	25	2	12	103619.1	103619.1	0.43%					36	6	19.92	NCHSHT
NAA0018_2-25	25	2	18	128947.4	128947.4	0.08%					64	8	59.67	NCHSHT
NAA0118_2-25	25	2	18	132841.7	132841.7	0.28%					32	4	20.98	NCHSHT
NAA0218_2-25	25	2	18	130155.6	130155.6	0.09%					24	3	23.17	NCHSHT
NAA0318_2-25	25	2	18	142250.1	142250.1	0.02%					32	4	29.09	NCHSHT
NAA0418_2-25	25	2	18	136761.5	136761.5	0.19%					32	4	26.97	NCHSHT
NAA0518_2-25	25	2	18	149061.2	149061.2	0.27%					24	3	38.40	NCHSHT
NAA0618_2-25	25	2	18	126973.3	126973.3	0.19%					32	4	27.90	NCHSHT
NAA0718_2-25	25	2	18	141072.0	141072.0	0.31%					32	4	47.48	NCHSHT
NAA0818_2-25	25	2	18	139357.1	139357.1	0.04%					40	5	32.28	NCHSHT
NAA0918_2-25	25	2	18	148245.1	148245.1	0.31%					40	5	34.91	NCHSHT
NAA006_2-50	50	2	6	94162.4	94162.4	0.17%					10	2	2.87	NCHSHT
NAA016_2-50	50	2	6	97938.2	97938.2	0.04%					15	3	1.60	NCHSHT
NAA026_2-50	50	2	6	94534.9	94534.9	0.11%					10	2	1.88	NCHSHT
NAA036_2-50	50	2	6	102700.3	102700.3	0.21%					10	2	1.92	NCHSHT
NAA046_2-50	50	2	6	106632.4	106632.4	0.10%					10	2	3.92	NCHSHT
NAA056_2-50	50	2	6	104507.6	104507.6	0.10%					20	4	6.05	NCHSHT
NAA066_2-50	50	2	6	94629.5	94629.5	0.21%					15	3	2.51	NCHSHT
NAA076_2-50	50	2	6	101554.2	101554.2	0.16%					10	2	4.79	NCHSHT
NAA086_2-50	50	2	6	99680.4	99680.4	0.10%					15	3	2.58	NCHSHT
NAA096_2-50	50	2	6	102925.7	102925.7	0.09%					15	3	2.05	NCHSHT
NAA0012_2-50	50	2	12	176397.6	176397.6	0.05%					24	4	8.01	NCHSHT
NAA0112_2-50	50	2	12	184182.4	184182.4	0.03%					24	4	9.66	NCHSHT
NAA0212_2-50	50	2	12	176352.1	176352.1	0.09%					24	4	16.30	NCHSHT
NAA0312_2-50	50	2	12	189823.5	189823.5	0.13%					30	5	13.61	NCHSHT
NAA0412_2-50	50	2	12	194840.3	194840.3	0.32%					24	4	38.44	NCHSHT
NAA0512_2-50	50	2	12	193116.0	193116.0	0.27%					24	4	20.91	NCHSHT
NAA0612_2-50	50	2	12	174251.3	174251.3	0.10%					18	3	8.10	NCHSHT
NAA0712_2-50	50	2	12	184106.8	184106.8	0.06%					24	4	20.41	NCHSHT
NAA0812_2-50	50	2	12	179236.2	179236.2	0.05%					18	3	11.84	NCHSHT
NAA0912_2-50	50	2	12	189875.3	189875.3	0.07%					30	5	28.08	NCHSHT
NAA0018_2-50	50	2	18	259279.7	259279.7	0.11%					24	3	25.21	NCHSHT
NAA0118_2-50	50	2	18	267650.1	267650.1	0.01%					24	3	15.79	NCHSHT
NAA0218_2-50	50	2	18	256163.7	256163.7	0.23%					32	4	57.51	NCHSHT
NAA0318_2-50	50	2	18	279042.2	279042.2	0.09%					24	3	21.18	NCHSHT
NAA0418_2-50	50	2	18	283367.5	283367.5	0.06%					40	5	109.18	NCHSHT
NAA0518_2-50	50	2	18	282768.4	282768.4	0.11%					32	4	33.83	NCHSHT
NAA0618_2-50	50	2	18	255891.1	255891.1	0.05%					40	5	34.79	NCHSHT
NAA0718_2-50	50	2	18	268772.9	268772.9	0.04%					24	3	38.71	NCHSHT
NAA0818_2-50	50	2	18	263035.1	263035.1	0.06%					24	3	38.54	NCHSHT
NAA0918_2-50	50	2	18	277516.8	277516.8	0.12%					48	6	123.07	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%					15	3	0.34	NCHSHT
NAA016_4-6	6	4	6	11188.0	11188.0	0.79%					20	4	1.29	NCHSHT
NAA026_4-6	6	4	6	11669.5	11669.5	0.36%					15	3	0.49	NCHSHT
NAA036_4-6	6	4	6	12249.2	12249.2	0.82%					15	3	0.48	NCHSHT
NAA046_4-6	6	4	6	9742.8	9742.8	0.00%					20	4	2.15	NCHSHT
NAA056_4-6	6	4	6	15068.9	15068.9	1.55%					15	3	0.64	NCHSHT
NAA066_4-6	6	4	6	12380.1	12380.1	5.98%					20	4	1.21	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%					20	4	0.56	NCHSHT
NAA086_4-6	6	4	6	9790.6	9790.6	1.15%					25	5	0.53	NCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_4-6	6	4	6	14361.2	14361.2	0.62%					15	3	0.40	NCHSHT
NAA0012_4-6	6	4	12	17392.8	17392.8	0.99%					24	4	1.31	NCHSHT
NAA0112_4-6	6	4	12	24017.1	24017.1	2.24%					24	4	3.28	NCHSHT
NAA0212_4-6	6	4	12	22019.8	22019.8	0.39%					24	4	1.90	NCHSHT
NAA0312_4-6	6	4	12	24551.2	24551.2	1.07%					30	5	1.74	NCHSHT
NAA0412_4-6	6	4	12	22025.1	22025.1	1.17%					18	3	2.27	NCHSHT
NAA0512_4-6	6	4	12	29342.9	29342.9	1.47%					36	6	2.33	NCHSHT
NAA0612_4-6	6	4	12	21302.6	21302.6	3.45%					30	5	2.84	NCHSHT
NAA0712_4-6	6	4	12	23670.0	23670.0	0.72%					18	3	2.88	NCHSHT
NAA0812_4-6	6	4	12	19036.3	19036.3	0.54%					36	6	2.15	NCHSHT
NAA0912_4-6	6	4	12	25659.8	25659.8	1.26%					18	3	1.16	NCHSHT
NAA0018_4-6	6	4	18	26756.3	26756.3	0.64%					40	5	5.68	NCHSHT
NAA0118_4-6	6	4	18	31900.3	31900.3	0.00%					56	7	15.55	NCHSHT
NAA0218_4-6	6	4	18	31726.9	31726.9	0.36%					40	5	6.57	NCHSHT
NAA0318_4-6	6	4	18	36878.6	36878.6	0.41%					32	4	3.72	NCHSHT
NAA0418_4-6	6	4	18	33478.9	33478.9	1.24%					40	5	11.79	NCHSHT
NAA0518_4-6	6	4	18	41532.0	41532.0	1.02%					32	4	13.18	NCHSHT
NAA0618_4-6	6	4	18	32217.7	32217.7	0.21%					32	4	6.48	NCHSHT
NAA0718_4-6	6	4	18	35656.0	35656.0	1.26%					24	3	8.41	NCHSHT
NAA0818_4-6	6	4	18	27227.8	27227.8	0.14%					32	4	4.43	NCHSHT
NAA0918_4-6	6	4	18	37459.8	37459.8	0.48%					40	5	5.79	NCHSHT
NAA006_4-12	12	4	6	19830.8	19830.8	0.48%					15	3	1.05	NCHSHT
NAA016_4-12	12	4	6	22891.4	22891.4	0.13%					20	4	4.99	NCHSHT
NAA026_4-12	12	4	6	18870.2	18870.2	2.23%					10	2	0.66	NCHSHT
NAA036_4-12	12	4	6	20245.6	20245.6	0.34%					20	4	1.74	NCHSHT
NAA046_4-12	12	4	6	23040.5	23040.5	1.99%					20	4	1.65	NCHSHT
NAA056_4-12	12	4	6	24252.3	24252.3	2.71%					15	3	1.63	NCHSHT
NAA066_4-12	12	4	6	20638.1	20638.1	0.34%					20	4	1.03	NCHSHT
NAA076_4-12	12	4	6	20751.0	20751.0	0.00%					20	4	7.51	NCHSHT
NAA086_4-12	12	4	6	22431.3	22431.3	0.45%					20	4	1.43	NCHSHT
NAA096_4-12	12	4	6	21777.1	21777.1	1.95%					15	3	2.46	NCHSHT
NAA0012_4-12	12	4	12	35726.6	35726.6	0.10%					18	3	10.36	NCHSHT
NAA0112_4-12	12	4	12	40625.9	40625.9	0.35%					36	6	22.23	NCHSHT
NAA0212_4-12	12	4	12	37045.3	37045.3	0.56%					30	5	5.19	NCHSHT
NAA0312_4-12	12	4	12	39993.0	39993.0	0.70%					30	5	14.84	NCHSHT
NAA0412_4-12	12	4	12	42062.4	42062.4	0.88%					30	5	10.69	NCHSHT
NAA0512_4-12	12	4	12	45444.3	45444.3	1.35%					30	5	28.31	NCHSHT
NAA0612_4-12	12	4	12	39584.2	39584.2	2.16%					24	4	7.58	NCHSHT
NAA0712_4-12	12	4	12	41503.8	41503.8	0.20%					24	4	14.36	NCHSHT
NAA0812_4-12	12	4	12	41362.5	41362.5	0.41%					18	3	1.55	NCHSHT
NAA0912_4-12	12	4	12	44121.0	44121.0	1.35%					30	5	23.46	NCHSHT
NAA0018_4-12	12	4	18	54019.1	54019.1	0.07%					32	4	16.25	NCHSHT
NAA0118_4-12	12	4	18	59407.1	59407.1	0.15%					32	4	24.73	NCHSHT
NAA0218_4-12	12	4	18	53412.1	53412.1	0.02%					32	4	4.46	NCHSHT
NAA0318_4-12	12	4	18	61049.9	61049.9	0.18%					40	5	35.97	NCHSHT
NAA0418_4-12	12	4	18	61752.6	61752.6	0.55%					32	4	28.46	NCHSHT
NAA0518_4-12	12	4	18	65795.2	65795.2	0.44%					32	4	17.50	NCHSHT
NAA0618_4-12	12	4	18	58660.5	58660.5	0.69%					32	4	9.22	NCHSHT
NAA0718_4-12	12	4	18	64300.4	64300.4	1.03%					40	5	45.65	NCHSHT
NAA0818_4-12	12	4	18	62690.8	62690.8	0.25%					40	5	7.18	NCHSHT
NAA0918_4-12	12	4	18	62997.4	62997.4	0.54%					32	4	30.58	NCHSHT
NAA006_4-25	25	4	6	37111.4	37111.4	0.28%					20	4	6.28	NCHSHT
NAA016_4-25	25	4	6	45208.0	45208.0	0.44%					20	4	3.71	NCHSHT
NAA026_4-25	25	4	6	42643.8	42643.8	0.66%					15	3	11.03	NCHSHT
NAA036_4-25	25	4	6	42254.8	42254.8	0.59%					15	3	7.36	NCHSHT
NAA046_4-25	25	4	6	43221.7	43221.7	0.92%					25	5	13.13	NCHSHT
NAA056_4-25	25	4	6	47118.7	47118.7	0.41%					25	5	13.31	NCHSHT
NAA066_4-25	25	4	6	37900.3	37900.3	0.57%					15	3	1.82	NCHSHT
NAA076_4-25	25	4	6	43011.8	43011.8	0.67%					10	2	6.76	NCHSHT
NAA086_4-25	25	4	6	39779.8	39779.8	0.65%					15	3	6.93	NCHSHT
NAA096_4-25	25	4	6	45624.0	45624.0	0.77%					20	4	14.91	NCHSHT
NAA0012_4-25	25	4	12	74673.5	74673.5	0.11%					30	5	17.68	NCHSHT
NAA0112_4-25	25	4	12	82570.6	82570.6	0.18%					42	7	49.58	NCHSHT
NAA0212_4-25	25	4	12	78220.0	78220.0	0.29%					30	5	66.40	NCHSHT
NAA0312_4-25	25	4	12	83039.6	83039.6	0.44%					30	5	24.60	NCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_4-25	25	4	12	83412.7	83412.7	0.23%					30	5	32.44	NCHSHT
NAA0512_4-25	25	4	12	86609.3	86609.3	0.59%					18	3	32.00	NCHSHT
NAA0612_4-25	25	4	12	73943.8	73943.8	0.80%					24	4	18.92	NCHSHT
NAA0712_4-25	25	4	12	83326.1	83326.1	0.12%					30	5	44.45	NCHSHT
NAA0812_4-25	25	4	12	77997.7	77997.7	0.18%					30	5	29.98	NCHSHT
NAA0912_4-25	25	4	12	84220.6	84220.6	0.14%					24	4	7.04	NCHSHT
NAA0018_4-25	25	4	18	108565.4	108565.4	-0.01%					48	6	49.21	NCHSHT
NAA0118_4-25	25	4	18	120677.9	120677.9	0.15%					32	4	68.43	NCHSHT
NAA0218_4-25	25	4	18	116997.3	116997.3	0.16%					40	5	99.47	NCHSHT
NAA0318_4-25	25	4	18	121220.4	121220.4	0.16%					40	5	51.85	NCHSHT
NAA0418_4-25	25	4	18	123754.8	123754.8	0.30%					40	5	34.37	NCHSHT
NAA0518_4-25	25	4	18	125240.6	125240.6	0.26%					40	5	49.28	NCHSHT
NAA0618_4-25	25	4	18	110480.6	110480.6	0.14%					32	4	24.22	NCHSHT
NAA0718_4-25	25	4	18	121950.4	121950.4	0.06%					40	5	54.96	NCHSHT
NAA0818_4-25	25	4	18	112332.2	112332.2	0.10%					32	4	25.43	NCHSHT
NAA0918_4-25	25	4	18	124116.6	124116.6	0.10%					40	5	23.06	NCHSHT
NAA006_4-50	50	4	6	80549.2	80549.2	0.04%					15	3	8.41	NCHSHT
NAA016_4-50	50	4	6	83543.6	83543.6	0.04%					15	3	7.55	NCHSHT
NAA026_4-50	50	4	6	85825.7	85825.7	0.19%					15	3	13.51	NCHSHT
NAA036_4-50	50	4	6	86451.4	86451.4	0.14%					15	3	11.24	NCHSHT
NAA046_4-50	50	4	6	92868.1	92868.1	0.50%					15	3	20.80	NCHSHT
NAA056_4-50	50	4	6	87646.6	87646.6	0.42%					20	4	26.01	NCHSHT
NAA066_4-50	50	4	6	78939.6	78939.6	0.11%					10	2	3.17	NCHSHT
NAA076_4-50	50	4	6	82497.3	82497.3	0.17%					15	3	12.53	NCHSHT
NAA086_4-50	50	4	6	82346.8	82346.8	0.18%					20	4	10.06	NCHSHT
NAA096_4-50	50	4	6	93653.1	93653.1	0.11%					10	2	2.05	NCHSHT
NAA0012_4-50	50	4	12	158470.4	158470.4	0.11%					24	4	43.90	NCHSHT
NAA0112_4-50	50	4	12	156455.0	156455.0	0.06%					24	4	27.44	NCHSHT
NAA0212_4-50	50	4	12	157673.6	157673.6	0.03%					36	6	57.80	NCHSHT
NAA0312_4-50	50	4	12	165087.6	165087.6	0.09%					30	5	19.42	NCHSHT
NAA0412_4-50	50	4	12	169558.8	169558.8	0.16%					30	5	58.55	NCHSHT
NAA0512_4-50	50	4	12	163837.1	163837.1	0.13%					24	4	42.32	NCHSHT
NAA0612_4-50	50	4	12	149646.1	149646.1	0.04%					24	4	12.83	NCHSHT
NAA0712_4-50	50	4	12	160477.9	160477.9	0.03%					24	4	40.08	NCHSHT
NAA0812_4-50	50	4	12	156223.6	156223.6	0.13%					18	3	13.66	NCHSHT
NAA0912_4-50	50	4	12	171763.3	171763.3	0.10%					12	2	15.53	NCHSHT
NAA0018_4-50	50	4	18	227103.2	227103.2	0.06%					40	5	70.57	NCHSHT
NAA0118_4-50	50	4	18	231351.4	231351.4	0.02%					32	4	32.90	NCHSHT
NAA0218_4-50	50	4	18	236495.6	236495.6	0.18%					40	5	112.27	NCHSHT
NAA0318_4-50	50	4	18	241996.2	241996.2	0.03%					24	3	29.05	NCHSHT
NAA0418_4-50	50	4	18	251675.4	251675.4	0.09%					40	5	89.27	NCHSHT
NAA0518_4-50	50	4	18	242807.8	242807.8	0.09%					32	4	57.26	NCHSHT
NAA0618_4-50	50	4	18	223270.4	223270.4	0.04%					40	5	43.00	NCHSHT
NAA0718_4-50	50	4	18	239593.0	239593.0	0.10%					32	4	82.48	NCHSHT
NAA0818_4-50	50	4	18	226965.0	226965.0	0.05%					24	3	26.06	NCHSHT
NAA0918_4-50	50	4	18	250575.9	250575.9	0.05%					24	3	45.97	NCHSHT
NAA006_6-6	6	6	6	9283.0	9283.0	2.34%					20	4	0.87	NCHSHT
NAA016_6-6	6	6	6	12121.1	12121.1	0.00%					20	4	1.49	NCHSHT
NAA026_6-6	6	6	6	11456.7	11456.7	2.57%					20	4	0.86	NCHSHT
NAA036_6-6	6	6	6	13784.8	13784.8	1.19%					20	4	0.87	NCHSHT
NAA046_6-6	6	6	6	13475.5	13475.5	0.92%					25	5	1.44	NCHSHT
NAA056_6-6	6	6	6	15886.6	15886.6	1.58%					15	3	0.83	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%					20	4	1.09	NCHSHT
NAA076_6-6	6	6	6	14199.2	14199.2	0.79%					20	4	1.47	NCHSHT
NAA086_6-6	6	6	6	13557.5	13557.5	0.78%					15	3	0.95	NCHSHT
NAA096_6-6	6	6	6	15332.1	15332.1	1.19%					30	6	2.97	NCHSHT
NAA0012_6-6	6	6	12	19157.8	19157.8	1.33%					24	4	3.41	NCHSHT
NAA0112_6-6	6	6	12	22764.2	22764.2	0.22%					30	5	12.29	NCHSHT
NAA0212_6-6	6	6	12	23038.8	23038.8	0.40%					36	6	3.47	NCHSHT
NAA0312_6-6	6	6	12	26281.1	26281.1	0.84%					24	4	2.04	NCHSHT
NAA0412_6-6	6	6	12	25732.4	25732.4	0.98%					30	5	3.72	NCHSHT
NAA0512_6-6	6	6	12	27301.8	27301.8	2.29%					36	6	4.82	NCHSHT
NAA0612_6-6	6	6	12	21979.9	21979.9	0.81%					24	4	5.95	NCHSHT
NAA0712_6-6	6	6	12	27293.9	27293.9	0.30%					30	5	3.67	NCHSHT
NAA0812_6-6	6	6	12	25140.2	25140.2	1.81%					30	5	6.04	NCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0912_6-6	6	6	12	28122.4	28122.4	1.06%					36	6	16.91	NCHSHT
NAA0018_6-6	6	6	18	28251.8	28251.8	0.84%					40	5	16.59	NCHSHT
NAA0118_6-6	6	6	18	34677.3	34677.3	0.03%					32	4	19.11	NCHSHT
NAA0218_6-6	6	6	18	31489.3	31489.3	0.36%					40	5	8.11	NCHSHT
NAA0318_6-6	6	6	18	36462.1	36462.1	0.64%					32	4	5.87	NCHSHT
NAA0418_6-6	6	6	18	37123.1	37123.1	0.32%					32	4	16.48	NCHSHT
NAA0518_6-6	6	6	18	41434.0	41434.0	0.75%					48	6	16.64	NCHSHT
NAA0618_6-6	6	6	18	32320.9	32320.9	0.23%					48	6	20.53	NCHSHT
NAA0718_6-6	6	6	18	40075.8	40075.8	0.65%					32	4	8.24	NCHSHT
NAA0818_6-6	6	6	18	40071.0	40071.0	1.47%					48	6	31.65	NCHSHT
NAA0918_6-6	6	6	18	42555.4	42555.4	0.24%					56	7	24.70	NCHSHT
NAA006_6-12	12	6	6	20347.1	20347.1	1.64%					20	4	4.82	NCHSHT
NAA016_6-12	12	6	6	20353.4	20353.4	0.68%					15	3	4.38	NCHSHT
NAA026_6-12	12	6	6	19411.8	19411.8	2.33%					20	4	6.64	NCHSHT
NAA036_6-12	12	6	6	20056.4	20056.4	0.32%					15	3	1.06	NCHSHT
NAA046_6-12	12	6	6	18769.1	18769.1	1.48%					15	3	2.70	NCHSHT
NAA056_6-12	12	6	6	20544.9	20544.9	3.21%					15	3	4.10	NCHSHT
NAA066_6-12	12	6	6	18060.0	18060.0	0.75%					15	3	1.08	NCHSHT
NAA076_6-12	12	6	6	23078.9	23078.9	0.00%					25	5	4.55	NCHSHT
NAA086_6-12	12	6	6	20372.4	20372.4	0.48%					20	4	3.12	NCHSHT
NAA096_6-12	12	6	6	23890.7	23890.7	1.40%					20	4	6.69	NCHSHT
NAA0012_6-12	12	6	12	37781.9	37781.9	1.40%					24	4	17.70	NCHSHT
NAA0112_6-12	12	6	12	39506.6	39506.6	0.54%					30	5	11.69	NCHSHT
NAA0212_6-12	12	6	12	37158.7	37158.7	0.90%					24	4	29.26	NCHSHT
NAA0312_6-12	12	6	12	39865.9	39865.9	0.45%					24	4	17.45	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%					24	4	9.15	NCHSHT
NAA0512_6-12	12	6	12	40991.3	40991.3	0.26%					36	6	18.16	NCHSHT
NAA0612_6-12	12	6	12	34353.5	34353.5	0.21%					24	4	3.14	NCHSHT
NAA0712_6-12	12	6	12	46249.4	46249.4	1.32%					30	5	41.00	NCHSHT
NAA0812_6-12	12	6	12	38205.2	38205.2	0.28%					36	6	16.77	NCHSHT
NAA0912_6-12	12	6	12	43929.5	43929.5	1.79%					30	5	23.25	NCHSHT
NAA0018_6-12	12	6	18	56351.7	56351.7	0.34%					40	5	33.08	NCHSHT
NAA0118_6-12	12	6	18	61018.9	61018.9	0.39%					32	4	19.46	NCHSHT
NAA0218_6-12	12	6	18	54777.6	54777.6	0.61%					40	5	27.34	NCHSHT
NAA0318_6-12	12	6	18	56870.9	56870.9	0.22%					48	6	23.50	NCHSHT
NAA0418_6-12	12	6	18	52272.1	52272.1	0.34%					32	4	20.19	NCHSHT
NAA0518_6-12	12	6	18	61738.3	61738.3	0.44%					40	5	20.01	NCHSHT
NAA0618_6-12	12	6	18	54075.6	54075.6	0.45%					40	5	11.51	NCHSHT
NAA0718_6-12	12	6	18	66496.5	66496.5	-0.19%					40	5	42.41	NCHSHT
NAA0818_6-12	12	6	18	57154.4	57154.4	1.15%					32	4	44.21	NCHSHT
NAA0918_6-12	12	6	18	64766.9	64766.9	0.30%					40	5	24.98	NCHSHT
NAA006_6-25	25	6	6	39339.9	39339.9	1.00%					15	3	29.75	NCHSHT
NAA016_6-25	25	6	6	39518.4	39518.4	0.26%					15	3	12.24	NCHSHT
NAA026_6-25	25	6	6	41292.5	41292.5	0.53%					20	4	12.24	NCHSHT
NAA036_6-25	25	6	6	40491.7	40491.7	0.44%					20	4	8.76	NCHSHT
NAA046_6-25	25	6	6	42809.5	42809.5	1.34%					15	3	32.00	NCHSHT
NAA056_6-25	25	6	6	40079.3	40079.3	0.44%					20	4	14.33	NCHSHT
NAA066_6-25	25	6	6	38473.3	38473.3	0.10%					25	5	7.98	NCHSHT
NAA076_6-25	25	6	6	42395.8	42395.8	0.18%					15	3	5.92	NCHSHT
NAA086_6-25	25	6	6	40291.1	40291.1	0.45%					15	3	8.18	NCHSHT
NAA096_6-25	25	6	6	41811.4	41811.4	0.23%					20	4	14.19	NCHSHT
NAA0012_6-25	25	6	12	76993.5	76993.5	1.08%					24	4	43.74	NCHSHT
NAA0112_6-25	25	6	12	78774.7	78774.7	0.27%					36	6	67.60	NCHSHT
NAA0212_6-25	25	6	12	80276.1	80276.1	0.81%					24	4	29.73	NCHSHT
NAA0312_6-25	25	6	12	77729.0	77729.0	0.58%					30	5	63.56	NCHSHT
NAA0412_6-25	25	6	12	80714.8	80714.8	0.26%					42	7	80.14	NCHSHT
NAA0512_6-25	25	6	12	76320.0	76320.0	0.33%					36	6	25.86	NCHSHT
NAA0612_6-25	25	6	12	74159.3	74159.3	0.59%					24	4	34.50	NCHSHT
NAA0712_6-25	25	6	12	77900.6	77900.6	0.31%					18	3	15.31	NCHSHT
NAA0812_6-25	25	6	12	74721.9	74721.9	0.23%					24	4	26.49	NCHSHT
NAA0912_6-25	25	6	12	82052.7	82052.7	0.30%					30	5	61.16	NCHSHT
NAA0018_6-25	25	6	18	110951.3	110951.3	0.11%					40	5	76.94	NCHSHT
NAA0118_6-25	25	6	18	117280.3	117280.3	0.51%					48	6	93.13	NCHSHT
NAA0218_6-25	25	6	18	120100.5	120100.5	0.17%					40	5	98.05	NCHSHT
NAA0318_6-25	25	6	18	116175.1	116175.1	0.18%					40	5	106.99	NCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_6-25	25	6	18	120099.4	120099.4	0.17%					40	5	79.60	NCHSHT
NAA0518_6-25	25	6	18	117161.4	117161.4	0.12%					32	4	43.73	NCHSHT
NAA0618_6-25	25	6	18	108427.4	108427.4	0.17%					32	4	52.80	NCHSHT
NAA0718_6-25	25	6	18	114718.3	114718.3	0.23%					32	4	42.41	NCHSHT
NAA0818_6-25	25	6	18	108341.5	108341.5	0.07%					40	5	75.43	NCHSHT
NAA0918_6-25	25	6	18	121987.2	121987.2	0.18%					40	5	84.08	NCHSHT
NAA006_6-50	50	6	6	73986.3	73986.3	0.08%					15	3	20.14	NCHSHT
NAA016_6-50	50	6	6	76230.0	76230.0	0.27%					25	5	29.50	NCHSHT
NAA026_6-50	50	6	6	78941.0	78941.0	0.16%					25	5	30.94	NCHSHT
NAA036_6-50	50	6	6	77491.7	77491.7	0.01%					20	4	16.51	NCHSHT
NAA046_6-50	50	6	6	79804.8	79804.8	0.48%					25	5	68.77	NCHSHT
NAA056_6-50	50	6	6	80133.7	80133.7	0.31%					20	4	62.92	NCHSHT
NAA066_6-50	50	6	6	76971.3	76971.3	0.31%					15	3	34.35	NCHSHT
NAA076_6-50	50	6	6	80940.3	80940.3	0.13%					25	5	19.22	NCHSHT
NAA086_6-50	50	6	6	75696.5	75696.5	0.12%					20	4	18.60	NCHSHT
NAA096_6-50	50	6	6	76765.7	76765.7	0.11%					15	3	13.84	NCHSHT
NAA0012_6-50	50	6	12	144487.5	144487.5	0.09%					24	4	27.77	NCHSHT
NAA0112_6-50	50	6	12	147676.5	147676.5	0.16%					30	5	56.96	NCHSHT
NAA0212_6-50	50	6	12	152126.8	152126.8	0.14%					24	4	63.38	NCHSHT
NAA0312_6-50	50	6	12	150997.7	150997.7	0.21%					24	4	52.82	NCHSHT
NAA0412_6-50	50	6	12	157336.3	157336.3	0.14%					30	5	63.60	NCHSHT
NAA0512_6-50	50	6	12	153702.9	153702.9	0.07%					24	4	57.89	NCHSHT
NAA0612_6-50	50	6	12	145958.2	145958.2	0.19%					30	5	103.68	NCHSHT
NAA0712_6-50	50	6	12	155970.1	155970.1	0.10%					18	3	29.35	NCHSHT
NAA0812_6-50	50	6	12	142555.3	142555.3	0.21%					18	3	35.56	NCHSHT
NAA0912_6-50	50	6	12	149469.9	149469.9	0.08%					24	4	46.26	NCHSHT
NAA0018_6-50	50	6	18	214547.5	214547.5	0.10%					32	4	61.08	NCHSHT
NAA0118_6-50	50	6	18	216239.6	216239.6	0.03%					32	4	55.94	NCHSHT
NAA0218_6-50	50	6	18	221903.9	221903.9	0.06%					32	4	102.11	NCHSHT
NAA0318_6-50	50	6	18	224228.4	224228.4	0.02%					32	4	76.68	NCHSHT
NAA0418_6-50	50	6	18	234040.1	234040.1	0.01%					48	6	133.08	NCHSHT
NAA0518_6-50	50	6	18	223518.2	223518.2	0.10%					40	5	114.96	NCHSHT
NAA0618_6-50	50	6	18	217331.3	217331.3	0.18%					32	4	118.84	NCHSHT
NAA0718_6-50	50	6	18	229058.1	229058.1	0.07%					40	5	93.53	NCHSHT
NAA0818_6-50	50	6	18	213104.9	213104.9	0.06%					48	6	87.53	NCHSHT
NAA0918_6-50	50	6	18	222626.0	222626.0	0.03%					32	4	55.36	NCHSHT
NAB006_2-6	6	2	6	14046.4	14046.4	0.13%					20	4	0.39	NCHSLT
NAB016_2-6	6	2	6	11210.0	11210.0	2.13%					20	4	0.53	NCHSLT
NAB026_2-6	6	2	6	14941.4	14941.4	2.40%					15	3	0.36	NCHSLT
NAB036_2-6	6	2	6	15128.8	15128.8	1.01%					20	4	0.45	NCHSLT
NAB046_2-6	6	2	6	16411.6	16411.6	0.00%					15	3	0.41	NCHSLT
NAB056_2-6	6	2	6	17185.9	17185.9	3.65%					10	2	0.26	NCHSLT
NAB066_2-6	6	2	6	16180.7	16180.7	1.80%					15	3	0.38	NCHSLT
NAB076_2-6	6	2	6	16589.2	16589.2	0.76%					25	5	0.63	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%					10	2	0.17	NCHSLT
NAB096_2-6	6	2	6	12883.1	12883.1	0.00%					20	4	0.37	NCHSLT
NAB0012_2-6	6	2	12	24820.6	24820.6	2.16%					24	4	0.90	NCHSLT
NAB0112_2-6	6	2	12	23659.7	23659.7	1.42%					30	5	1.41	NCHSLT
NAB0212_2-6	6	2	12	27427.4	27427.4	2.52%					36	6	1.30	NCHSLT
NAB0312_2-6	6	2	12	15810025851.4	15810025907.6	100.00%					24	4	1.08	NCHSLT
NAB0412_2-6	6	2	12	28652.9	28652.9	6.07%					36	6	2.65	NCHSLT
NAB0512_2-6	6	2	12	31035.8	31035.8	0.61%					36	6	1.60	NCHSLT
NAB0612_2-6	6	2	12	28668.8	28668.8	2.29%					24	4	1.23	NCHSLT
NAB0712_2-6	6	2	12	27537.6	27537.6	2.25%					24	4	1.12	NCHSLT
NAB0812_2-6	6	2	12	22813.2	22813.2	3.56%					18	3	0.65	NCHSLT
NAB0912_2-6	6	2	12	27189.8	27189.8	0.73%					30	5	1.39	NCHSLT
NAB0018_2-6	6	2	18	33546.7	33546.7	0.59%					32	4	3.31	NCHSLT
NAB0118_2-6	6	2	18	33822.9	33822.9	0.93%					48	6	2.91	NCHSLT
NAB0218_2-6	6	2	18	39702.2	39702.2	0.84%					32	4	1.91	NCHSLT
NAB0318_2-6	6	2	18	344207712.2	344207713.6	70.95%					56	7	6.75	NCHSLT
NAB0418_2-6	6	2	18	37491.6	37491.6	1.85%					48	6	7.13	NCHSLT
NAB0518_2-6	6	2	18	42615.4	42615.4	0.49%					48	6	4.13	NCHSLT
NAB0618_2-6	6	2	18	39204.7	39204.7	1.12%					32	4	3.80	NCHSLT
NAB0718_2-6	6	2	18	39028.3	39028.3	0.55%					32	4	2.33	NCHSLT
NAB0818_2-6	6	2	18	31750.7	31750.7	0.46%					32	4	1.53	NCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_2-6	6	2	18	36328.3	36328.3	0.80%					56	7	5.53	NCHSLT
NAB006_2-12	12	2	6	21943.7	21943.7	0.70%					15	3	0.62	NCHSLT
NAB016_2-12	12	2	6	24372.8	24372.8	0.26%					15	3	0.49	NCHSLT
NAB026_2-12	12	2	6	25628.9	25628.9	0.50%					45	9	2.10	NCHSLT
NAB036_2-12	12	2	6	30056.1	30056.1	2.47%					10	2	0.72	NCHSLT
NAB046_2-12	12	2	6	25222.2	25222.2	0.04%					10	2	0.40	NCHSLT
NAB056_2-12	12	2	6	30013.7	30013.7	3.21%					15	3	0.72	NCHSLT
NAB066_2-12	12	2	6	25555.1	25555.1	0.58%					10	2	0.41	NCHSLT
NAB076_2-12	12	2	6	25442.6	25442.6	0.00%					20	4	0.83	NCHSLT
NAB086_2-12	12	2	6	23303.5	23303.5	0.00%					10	2	0.29	NCHSLT
NAB096_2-12	12	2	6	27491.4	27491.4	0.92%					10	2	0.59	NCHSLT
NAB0012_2-12	12	2	12	41458.4	41458.4	0.79%					24	4	2.32	NCHSLT
NAB0112_2-12	12	2	12	42106.7	42106.7	1.20%					24	4	2.01	NCHSLT
NAB0212_2-12	12	2	12	44242.2	44242.2	0.58%					36	6	5.23	NCHSLT
NAB0312_2-12	12	2	12	53793.0	53793.0	1.47%					24	4	3.62	NCHSLT
NAB0412_2-12	12	2	12	45698.0	45698.0	1.34%					24	4	2.26	NCHSLT
NAB0512_2-12	12	2	12	52994.7	52994.7	1.54%					24	4	3.77	NCHSLT
NAB0612_2-12	12	2	12	46092.5	46092.5	0.80%					30	5	2.23	NCHSLT
NAB0712_2-12	12	2	12	48749.6	48749.6	2.47%					18	3	1.63	NCHSLT
NAB0812_2-12	12	2	12	41903.4	41903.4	0.09%					30	5	1.98	NCHSLT
NAB0912_2-12	12	2	12	51261.4	51261.4	1.02%					30	5	6.96	NCHSLT
NAB0018_2-12	12	2	18	61032.1	61032.1	0.37%					48	6	8.72	NCHSLT
NAB0118_2-12	12	2	18	62331.9	62331.9	0.62%					40	5	9.97	NCHSLT
NAB0218_2-12	12	2	18	65771.4	65771.4	0.57%					48	6	13.13	NCHSLT
NAB0318_2-12	12	2	18	75647.9	75647.9	0.10%					48	6	13.96	NCHSLT
NAB0418_2-12	12	2	18	68030.7	68030.7	0.32%					32	4	8.70	NCHSLT
NAB0518_2-12	12	2	18	74184.7	74184.7	0.04%					72	9	22.96	NCHSLT
NAB0618_2-12	12	2	18	66590.9	66590.9	1.00%					40	5	19.74	NCHSLT
NAB0718_2-12	12	2	18	68101.5	68101.5	0.46%					40	5	4.81	NCHSLT
NAB0818_2-12	12	2	18	65058.7	65058.7	0.35%					40	5	19.58	NCHSLT
NAB0918_2-12	12	2	18	73333.1	73333.1	0.37%					48	6	12.31	NCHSLT
NAB006_2-25	25	2	6	48601.6	48601.6	0.47%					10	2	1.16	NCHSLT
NAB016_2-25	25	2	6	49604.6	49604.6	0.81%					10	2	0.77	NCHSLT
NAB026_2-25	25	2	6	52678.3	52678.3	1.18%					15	3	2.06	NCHSLT
NAB036_2-25	25	2	6	53887.5	53887.5	0.37%					15	3	1.91	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%					15	3	2.13	NCHSLT
NAB056_2-25	25	2	6	57534.0	57534.0	0.21%					10	2	0.77	NCHSLT
NAB066_2-25	25	2	6	47199.6	47199.6	1.41%					10	2	0.56	NCHSLT
NAB076_2-25	25	2	6	52577.9	52577.9	0.70%					15	3	1.82	NCHSLT
NAB086_2-25	25	2	6	55594.2	55594.2	1.07%					15	3	1.66	NCHSLT
NAB096_2-25	25	2	6	60457.1	60457.1	0.07%					15	3	1.42	NCHSLT
NAB0012_2-25	25	2	12	89549.9	89549.9	0.28%					18	3	3.77	NCHSLT
NAB0112_2-25	25	2	12	95114.1	95114.1	0.32%					24	4	6.26	NCHSLT
NAB0212_2-25	25	2	12	92295.4	92295.4	0.79%					36	6	15.13	NCHSLT
NAB0312_2-25	25	2	12	95649.8	95649.8	0.38%					30	5	25.51	NCHSLT
NAB0412_2-25	25	2	12	94777.7	94777.7	0.40%					30	5	10.94	NCHSLT
NAB0512_2-25	25	2	12	108604.3	108604.3	1.20%					30	5	25.78	NCHSLT
NAB0612_2-25	25	2	12	91279.3	91279.3	0.63%					36	6	8.99	NCHSLT
NAB0712_2-25	25	2	12	96776.2	96776.2	0.27%					24	4	5.61	NCHSLT
NAB0812_2-25	25	2	12	99093.2	99093.2	0.12%					30	5	7.94	NCHSLT
NAB0912_2-25	25	2	12	104661.3	104661.3	0.22%					42	7	15.80	NCHSLT
NAB0018_2-25	25	2	18	129921.7	129921.7	0.17%					32	4	38.01	NCHSLT
NAB0118_2-25	25	2	18	133710.4	133710.4	0.24%					40	5	24.67	NCHSLT
NAB0218_2-25	25	2	18	131685.6	131685.6	0.12%					40	5	51.38	NCHSLT
NAB0318_2-25	25	2	18	143317.2	143317.2	0.02%					48	6	44.36	NCHSLT
NAB0418_2-25	25	2	18	138373.6	138373.6	0.21%					40	5	66.68	NCHSLT
NAB0518_2-25	25	2	18	150881.5	150881.5	0.67%					40	5	90.80	NCHSLT
NAB0618_2-25	25	2	18	128078.4	128078.4	0.26%					40	5	29.20	NCHSLT
NAB0718_2-25	25	2	18	142724.6	142724.6	0.25%					32	4	55.72	NCHSLT
NAB0818_2-25	25	2	18	140273.7	140273.7	0.09%					40	5	39.42	NCHSLT
NAB0918_2-25	25	2	18	150198.8	150198.8	0.31%					48	6	45.01	NCHSLT
NAB006_2-50	50	2	6	95563.3	95563.3	0.34%					15	3	3.55	NCHSLT
NAB016_2-50	50	2	6	99083.7	99083.7	0.16%					15	3	1.97	NCHSLT
NAB026_2-50	50	2	6	96167.6	96167.6	0.07%					15	3	2.11	NCHSLT
NAB036_2-50	50	2	6	104091.6	104091.6	0.06%					15	3	3.57	NCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_2-50	50	2	6	109618.6	109618.6	0.40%					15	3	8.42	NCHSLT
NAB056_2-50	50	2	6	107872.8	107872.8	0.69%					10	2	4.49	NCHSLT
NAB066_2-50	50	2	6	96719.0	96719.0	0.34%					20	4	5.30	NCHSLT
NAB076_2-50	50	2	6	103507.3	103507.3	0.18%					20	4	9.15	NCHSLT
NAB086_2-50	50	2	6	101366.9	101366.9	0.34%					10	2	3.72	NCHSLT
NAB096_2-50	50	2	6	105188.9	105188.9	0.23%					15	3	2.88	NCHSLT
NAB0012_2-50	50	2	12	178096.8	178096.8	0.09%					42	7	43.99	NCHSLT
NAB0112_2-50	50	2	12	185431.9	185431.9	0.05%					18	3	6.15	NCHSLT
NAB0212_2-50	50	2	12	178551.5	178551.5	0.18%					18	3	16.29	NCHSLT
NAB0312_2-50	50	2	12	191347.1	191347.1	0.26%					24	4	30.16	NCHSLT
NAB0412_2-50	50	2	12	197246.1	197246.1	0.06%					36	6	76.51	NCHSLT
NAB0512_2-50	50	2	12	195446.0	195446.0	0.35%					18	3	29.88	NCHSLT
NAB0612_2-50	50	2	12	175855.1	175855.1	0.18%					30	5	15.67	NCHSLT
NAB0712_2-50	50	2	12	187135.3	187135.3	0.20%					18	3	23.96	NCHSLT
NAB0812_2-50	50	2	12	181151.0	181151.0	0.13%					24	4	20.61	NCHSLT
NAB0912_2-50	50	2	12	192848.2	192848.2	0.40%					18	3	40.98	NCHSLT
NAB0018_2-50	50	2	18	260342.4	260342.4	0.01%					32	4	20.36	NCHSLT
NAB0118_2-50	50	2	18	269116.3	269116.3	0.11%					24	3	41.64	NCHSLT
NAB0218_2-50	50	2	18	258232.5	258232.5	0.09%					48	6	76.16	NCHSLT
NAB0318_2-50	50	2	18	280654.2	280654.2	0.09%					24	3	56.44	NCHSLT
NAB0418_2-50	50	2	18	287963.2	287963.2	0.21%					40	5	173.02	NCHSLT
NAB0518_2-50	50	2	18	284888.4	284888.4	0.04%					40	5	76.81	NCHSLT
NAB0618_2-50	50	2	18	257842.3	257842.3	0.14%					32	4	47.19	NCHSLT
NAB0718_2-50	50	2	18	271425.5	271425.5	0.09%					40	5	112.74	NCHSLT
NAB0818_2-50	50	2	18	264188.1	264188.1	0.05%					40	5	37.39	NCHSLT
NAB0918_2-50	50	2	18	280288.1	280288.1	0.10%					56	7	118.68	NCHSLT
NAB006_4-6	6	4	6	9716.8	9716.8	0.59%					15	3	0.40	NCHSLT
NAB016_4-6	6	4	6	12378.6	12378.6	2.74%					20	4	1.36	NCHSLT
NAB026_4-6	6	4	6	12071.6	12071.6	0.33%					15	3	0.57	NCHSLT
NAB036_4-6	6	4	6	12636.0	12636.0	0.18%					25	5	0.73	NCHSLT
NAB046_4-6	6	4	6	11032.7	11032.7	2.24%					20	4	1.76	NCHSLT
NAB056_4-6	6	4	6	15848.3	15848.3	2.95%					15	3	0.63	NCHSLT
NAB066_4-6	6	4	6	12847.7	12847.7	3.65%					20	4	0.79	NCHSLT
NAB076_4-6	6	4	6	14336.7	14336.7	2.75%					15	3	0.61	NCHSLT
NAB086_4-6	6	4	6	10054.3	10054.3	1.07%					20	4	0.48	NCHSLT
NAB096_4-6	6	4	6	14764.9	14764.9	0.36%					25	5	0.63	NCHSLT
NAB0012_4-6	6	4	12	17903.1	17903.1	0.13%					30	5	2.23	NCHSLT
NAB0112_4-6	6	4	12	25272.2	25272.2	0.69%					24	4	3.87	NCHSLT
NAB0212_4-6	6	4	12	23408.3	23408.3	1.01%					30	5	4.25	NCHSLT
NAB0312_4-6	6	4	12	25902.6	25902.6	1.15%					30	5	1.57	NCHSLT
NAB0412_4-6	6	4	12	23730.8	23730.8	0.85%					36	6	5.55	NCHSLT
NAB0512_4-6	6	4	12	30376.7	30376.7	0.36%					36	6	2.32	NCHSLT
NAB0612_4-6	6	4	12	22577.8	22577.8	2.89%					18	3	2.44	NCHSLT
NAB0712_4-6	6	4	12	25223.5	25223.5	2.59%					18	3	1.92	NCHSLT
NAB0812_4-6	6	4	12	21120.2	21120.2	0.32%					24	4	2.18	NCHSLT
NAB0912_4-6	6	4	12	26065.3	26065.3	0.60%					24	4	1.27	NCHSLT
NAB0018_4-6	6	4	18	27519.4	27519.4	0.09%					32	4	2.71	NCHSLT
NAB0118_4-6	6	4	18	33366.4	33366.4	0.27%					32	4	5.56	NCHSLT
NAB0218_4-6	6	4	18	33426.2	33426.2	0.33%					32	4	14.36	NCHSLT
NAB0318_4-6	6	4	18	38943.3	38943.3	0.00%					48	6	5.79	NCHSLT
NAB0418_4-6	6	4	18	35663.0	35663.0	1.66%					40	5	13.36	NCHSLT
NAB0518_4-6	6	4	18	43371.3	43371.3	0.78%					32	4	5.17	NCHSLT
NAB0618_4-6	6	4	18	34275.6	34275.6	0.41%					48	6	5.75	NCHSLT
NAB0718_4-6	6	4	18	37273.0	37273.0	0.03%					32	4	14.08	NCHSLT
NAB0818_4-6	6	4	18	28331.1	28331.1	1.00%					32	4	10.58	NCHSLT
NAB0918_4-6	6	4	18	38377.8	38377.8	0.60%					40	5	6.67	NCHSLT
NAB006_4-12	12	4	6	20508.3	20508.3	0.33%					15	3	1.33	NCHSLT
NAB016_4-12	12	4	6	24009.5	24009.5	1.36%					25	5	6.44	NCHSLT
NAB026_4-12	12	4	6	19250.9	19250.9	2.38%					10	2	0.70	NCHSLT
NAB036_4-12	12	4	6	21159.0	21159.0	2.02%					15	3	1.06	NCHSLT
NAB046_4-12	12	4	6	23147.5	23147.5	0.58%					15	3	1.68	NCHSLT
NAB056_4-12	12	4	6	24550.2	24550.2	1.47%					20	4	2.68	NCHSLT
NAB066_4-12	12	4	6	21880.9	21880.9	2.65%					20	4	1.70	NCHSLT
NAB076_4-12	12	4	6	21766.0	21766.0	0.75%					15	3	2.46	NCHSLT
NAB086_4-12	12	4	6	23042.0	23042.0	1.62%					15	3	1.60	NCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB096_4-12	12	4	6	22911.6	22911.6	2.11%					10	2	1.49	NCHSLT
NAB0012_4-12	12	4	12	36651.7	36651.7	0.16%					24	4	7.77	NCHSLT
NAB0112_4-12	12	4	12	42194.0	42194.0	0.81%					36	6	35.71	NCHSLT
NAB0212_4-12	12	4	12	37591.4	37591.4	0.44%					18	3	5.63	NCHSLT
NAB0312_4-12	12	4	12	41312.0	41312.0	0.84%					36	6	10.13	NCHSLT
NAB0412_4-12	12	4	12	42691.3	42691.3	0.44%					36	6	11.54	NCHSLT
NAB0512_4-12	12	4	12	47176.4	47176.4	2.03%					30	5	29.35	NCHSLT
NAB0612_4-12	12	4	12	40667.4	40667.4	1.37%					30	5	14.03	NCHSLT
NAB0712_4-12	12	4	12	43153.9	43153.9	0.41%					48	8	40.69	NCHSLT
NAB0812_4-12	12	4	12	41951.2	41951.2	0.23%					24	4	3.47	NCHSLT
NAB0912_4-12	12	4	12	45808.0	45808.0	0.78%					24	4	28.20	NCHSLT
NAB0018_4-12	12	4	18	54847.0	54847.0	0.30%					64	8	37.37	NCHSLT
NAB0118_4-12	12	4	18	61178.5	61178.5	0.36%					56	7	56.33	NCHSLT
NAB0218_4-12	12	4	18	54038.1	54038.1	0.30%					40	5	15.37	NCHSLT
NAB0318_4-12	12	4	18	62626.7	62626.7	-0.18%					48	6	28.61	NCHSLT
NAB0418_4-12	12	4	18	63505.9	63505.9	0.33%					32	4	48.57	NCHSLT
NAB0518_4-12	12	4	18	67587.6	67587.6	0.48%					40	5	30.07	NCHSLT
NAB0618_4-12	12	4	18	60079.8	60079.8	0.49%					40	5	19.04	NCHSLT
NAB0718_4-12	12	4	18	66625.5	66625.5	0.56%					40	5	81.74	NCHSLT
NAB0818_4-12	12	4	18	63688.8	63688.8	0.32%					48	6	23.13	NCHSLT
NAB0918_4-12	12	4	18	64317.2	64317.2	0.05%					56	7	59.99	NCHSLT
NAB006_4-25	25	4	6	38044.4	38044.4	0.72%					15	3	7.59	NCHSLT
NAB016_4-25	25	4	6	46551.7	46551.7	1.02%					20	4	9.71	NCHSLT
NAB026_4-25	25	4	6	43791.7	43791.7	0.43%					20	4	17.73	NCHSLT
NAB036_4-25	25	4	6	43394.2	43394.2	0.25%					20	4	9.93	NCHSLT
NAB046_4-25	25	4	6	44517.6	44517.6	0.58%					20	4	21.60	NCHSLT
NAB056_4-25	25	4	6	48477.4	48477.4	0.84%					20	4	14.01	NCHSLT
NAB066_4-25	25	4	6	38638.9	38638.9	0.51%					20	4	2.61	NCHSLT
NAB076_4-25	25	4	6	44068.5	44068.5	0.44%					15	3	20.25	NCHSLT
NAB086_4-25	25	4	6	40706.7	40706.7	0.68%					30	6	16.59	NCHSLT
NAB096_4-25	25	4	6	46476.8	46476.8	0.33%					35	7	12.78	NCHSLT
NAB0012_4-25	25	4	12	75693.0	75693.0	0.20%					30	5	40.22	NCHSLT
NAB0112_4-25	25	4	12	84268.9	84268.9	0.51%					30	5	69.29	NCHSLT
NAB0212_4-25	25	4	12	80308.3	80308.3	0.34%					36	6	80.92	NCHSLT
NAB0312_4-25	25	4	12	84304.7	84304.7	0.58%					30	5	56.15	NCHSLT
NAB0412_4-25	25	4	12	84860.6	84860.6	0.33%					30	5	48.65	NCHSLT
NAB0512_4-25	25	4	12	88037.0	88037.0	0.66%					30	5	47.95	NCHSLT
NAB0612_4-25	25	4	12	74847.2	74847.2	0.56%					24	4	26.63	NCHSLT
NAB0712_4-25	25	4	12	84641.1	84641.1	0.33%					30	5	56.22	NCHSLT
NAB0812_4-25	25	4	12	79421.3	79421.3	0.50%					24	4	37.88	NCHSLT
NAB0912_4-25	25	4	12	85386.8	85386.8	0.52%					12	2	8.59	NCHSLT
NAB0018_4-25	25	4	18	109968.0	109968.0	0.15%					48	6	92.59	NCHSLT
NAB0118_4-25	25	4	18	122511.8	122511.8	0.21%					48	6	137.26	NCHSLT
NAB0218_4-25	25	4	18	119118.7	119118.7	0.45%					40	5	182.88	NCHSLT
NAB0318_4-25	25	4	18	122717.8	122717.8	0.15%					48	6	93.30	NCHSLT
NAB0418_4-25	25	4	18	125516.4	125516.4	0.46%					32	4	58.46	NCHSLT
NAB0518_4-25	25	4	18	126990.7	126990.7	-0.12%					32	4	44.89	NCHSLT
NAB0618_4-25	25	4	18	111142.0	111142.0	0.10%					40	5	29.87	NCHSLT
NAB0718_4-25	25	4	18	123152.7	123152.7	0.11%					48	6	76.76	NCHSLT
NAB0818_4-25	25	4	18	113462.3	113462.3	0.02%					32	4	87.19	NCHSLT
NAB0918_4-25	25	4	18	125202.5	125202.5	0.18%					40	5	27.06	NCHSLT
NAB006_4-50	50	4	6	81913.5	81913.5	0.29%					20	4	23.09	NCHSLT
NAB016_4-50	50	4	6	85191.0	85191.0	0.28%					15	3	9.67	NCHSLT
NAB026_4-50	50	4	6	87217.3	87217.3	0.14%					15	3	22.01	NCHSLT
NAB036_4-50	50	4	6	88141.7	88141.7	0.03%					20	4	8.39	NCHSLT
NAB046_4-50	50	4	6	94979.5	94979.5	0.46%					15	3	19.56	NCHSLT
NAB056_4-50	50	4	6	89738.6	89738.6	0.31%					15	3	25.87	NCHSLT
NAB066_4-50	50	4	6	80046.0	80046.0	0.17%					15	3	11.84	NCHSLT
NAB076_4-50	50	4	6	84150.0	84150.0	0.44%					20	4	50.00	NCHSLT
NAB086_4-50	50	4	6	84256.7	84256.7	0.40%					20	4	25.10	NCHSLT
NAB096_4-50	50	4	6	94735.3	94735.3	0.16%					15	3	20.10	NCHSLT
NAB0012_4-50	50	4	12	160345.8	160345.8	0.13%					24	4	65.18	NCHSLT
NAB0112_4-50	50	4	12	157880.0	157880.0	0.09%					30	5	55.26	NCHSLT
NAB0212_4-50	50	4	12	159619.9	159619.9	0.29%					24	4	74.18	NCHSLT
NAB0312_4-50	50	4	12	166811.1	166811.1	0.08%					24	4	43.58	NCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_4-50	50	4	12	171980.4	171980.4	0.11%					30	5	89.92	NCHSLT
NAB0512_4-50	50	4	12	165677.2	165677.2	0.15%					36	6	89.19	NCHSLT
NAB0612_4-50	50	4	12	150746.9	150746.9	0.14%					24	4	37.27	NCHSLT
NAB0712_4-50	50	4	12	163166.3	163166.3	0.35%					24	4	63.62	NCHSLT
NAB0812_4-50	50	4	12	157950.1	157950.1	0.23%					24	4	56.56	NCHSLT
NAB0912_4-50	50	4	12	172962.1	172962.1	0.16%					24	4	34.99	NCHSLT
NAB0018_4-50	50	4	18	228844.7	228844.7	0.09%					32	4	95.07	NCHSLT
NAB0118_4-50	50	4	18	233194.3	233194.3	0.04%					40	5	142.32	NCHSLT
NAB0218_4-50	50	4	18	238890.0	238890.0	0.03%					40	5	154.95	NCHSLT
NAB0318_4-50	50	4	18	244071.9	244071.9	0.16%					32	4	81.95	NCHSLT
NAB0418_4-50	50	4	18	254466.3	254466.3	0.17%					32	4	125.15	NCHSLT
NAB0518_4-50	50	4	18	244849.8	244849.8	0.00%					48	6	112.95	NCHSLT
NAB0618_4-50	50	4	18	224239.6	224239.6	0.02%					40	5	48.08	NCHSLT
NAB0718_4-50	50	4	18	241722.4	241722.4	0.05%					48	6	181.79	NCHSLT
NAB0818_4-50	50	4	18	228681.7	228681.7	0.09%					40	5	104.65	NCHSLT
NAB0918_4-50	50	4	18	252178.1	252178.1	0.06%					32	4	76.90	NCHSLT
NAB006_6-6	6	6	6	9940.2	9940.2	1.80%					25	5	1.32	NCHSLT
NAB016_6-6	6	6	6	13748.0	13748.0	2.11%					25	5	1.83	NCHSLT
NAB026_6-6	6	6	6	12527.6	12527.6	1.71%					15	3	1.05	NCHSLT
NAB036_6-6	6	6	6	14093.7	14093.7	0.57%					25	5	2.33	NCHSLT
NAB046_6-6	6	6	6	14299.3	14299.3	1.37%					30	6	1.32	NCHSLT
NAB056_6-6	6	6	6	17483.0	17483.0	2.64%					20	4	2.18	NCHSLT
NAB066_6-6	6	6	6	11933.9	11933.9	1.34%					15	3	0.51	NCHSLT
NAB076_6-6	6	6	6	15813.3	15813.3	1.55%					20	4	1.48	NCHSLT
NAB086_6-6	6	6	6	15446.1	15446.1	2.85%					20	4	2.39	NCHSLT
NAB096_6-6	6	6	6	16487.4	16487.4	0.02%					20	4	2.13	NCHSLT
NAB0012_6-6	6	6	12	20261.1	20261.1	0.40%					30	5	3.37	NCHSLT
NAB0112_6-6	6	6	12	25398.1	25398.1	0.50%					30	5	6.66	NCHSLT
NAB0212_6-6	6	6	12	24429.6	24429.6	0.30%					24	4	2.15	NCHSLT
NAB0312_6-6	6	6	12	27526.7	27526.7	0.14%					30	5	5.23	NCHSLT
NAB0412_6-6	6	6	12	27350.0	27350.0	0.15%					42	7	14.66	NCHSLT
NAB0512_6-6	6	6	12	29988.6	29988.6	1.43%					30	5	3.74	NCHSLT
NAB0612_6-6	6	6	12	24093.7	24093.7	1.23%					30	5	3.27	NCHSLT
NAB0712_6-6	6	6	12	29095.4	29095.4	0.03%					24	4	5.12	NCHSLT
NAB0812_6-6	6	6	12	27456.6	27456.6	0.57%					42	7	18.54	NCHSLT
NAB0912_6-6	6	6	12	31662.9	31662.9	3.75%					30	5	19.92	NCHSLT
NAB0018_6-6	6	6	18	29786.5	29786.5	0.19%					40	5	9.28	NCHSLT
NAB0118_6-6	6	6	18	1939733762.7	1939733774.0	94.84%					48	6	68.73	NCHSLT
NAB0218_6-6	6	6	18	33159.4	33159.4	0.36%					32	4	7.87	NCHSLT
NAB0318_6-6	6	6	18	39196.1	39196.1	0.75%					32	4	14.14	NCHSLT
NAB0418_6-6	6	6	18	39833.0	39833.0	0.29%					40	5	33.06	NCHSLT
NAB0518_6-6	6	6	18	45241.8	45241.8	0.94%					48	6	32.36	NCHSLT
NAB0618_6-6	6	6	18	34318.0	34318.0	0.30%					72	9	20.26	NCHSLT
NAB0718_6-6	6	6	18	42885.8	42885.8	0.31%					40	5	22.60	NCHSLT
NAB0818_6-6	6	6	18	43709.7	43709.7	0.16%					56	7	32.46	NCHSLT
NAB0918_6-6	6	6	18	47803.8	47803.8	1.69%					56	7	58.72	NCHSLT
NAB006_6-12	12	6	6	20875.5	20875.5	1.04%					15	3	11.56	NCHSLT
NAB016_6-12	12	6	6	21398.7	21398.7	1.03%					25	5	20.15	NCHSLT
NAB026_6-12	12	6	6	20045.8	20045.8	0.44%					40	8	16.65	NCHSLT
NAB036_6-12	12	6	6	20862.8	20862.8	0.12%					25	5	3.73	NCHSLT
NAB046_6-12	12	6	6	19225.0	19225.0	0.88%					15	3	4.81	NCHSLT
NAB056_6-12	12	6	6	21322.9	21322.9	3.74%					20	4	2.57	NCHSLT
NAB066_6-12	12	6	6	18640.6	18640.6	0.62%					15	3	1.09	NCHSLT
NAB076_6-12	12	6	6	24522.2	24522.2	0.86%					25	5	11.52	NCHSLT
NAB086_6-12	12	6	6	21669.7	21669.7	2.71%					20	4	14.17	NCHSLT
NAB096_6-12	12	6	6	24677.5	24677.5	1.07%					15	3	14.23	NCHSLT
NAB0012_6-12	12	6	12	38591.3	38591.3	0.60%					24	4	8.50	NCHSLT
NAB0112_6-12	12	6	12	41028.2	41028.2	0.81%					30	5	16.43	NCHSLT
NAB0212_6-12	12	6	12	39242.4	39242.4	1.54%					30	5	43.68	NCHSLT
NAB0312_6-12	12	6	12	41286.9	41286.9	0.55%					18	3	10.27	NCHSLT
NAB0412_6-12	12	6	12	36822.9	36822.9	0.57%					30	5	26.53	NCHSLT
NAB0512_6-12	12	6	12	43315.6	43315.6	1.70%					30	5	17.46	NCHSLT
NAB0612_6-12	12	6	12	35613.7	35613.7	1.45%					24	4	5.61	NCHSLT
NAB0712_6-12	12	6	12	48845.8	48845.8	1.05%					36	6	59.23	NCHSLT
NAB0812_6-12	12	6	12	40602.9	40602.9	0.86%					36	6	44.08	NCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_6-12	12	6	12	44974.9	44974.9	0.71%					30	5	8.60	NCHSLT
NAB0018_6-12	12	6	18	57531.5	57531.5	-0.05%					32	4	28.94	NCHSLT
NAB0118_6-12	12	6	18	62954.1	62954.1	0.45%					48	6	43.21	NCHSLT
NAB0218_6-12	12	6	18	57015.0	57015.0	0.36%					40	5	58.13	NCHSLT
NAB0318_6-12	12	6	18	58835.9	58835.9	0.17%					40	5	30.98	NCHSLT
NAB0418_6-12	12	6	18	53589.4	53589.4	0.46%					40	5	24.42	NCHSLT
NAB0518_6-12	12	6	18	64004.7	64004.7	0.30%					40	5	49.32	NCHSLT
NAB0618_6-12	12	6	18	55464.3	55464.3	0.66%					40	5	41.31	NCHSLT
NAB0718_6-12	12	6	18	70582.7	70582.7	0.32%					48	6	92.24	NCHSLT
NAB0818_6-12	12	6	18	60209.0	60209.0	1.29%					48	6	82.77	NCHSLT
NAB0918_6-12	12	6	18	67040.5	67040.5	1.00%					32	4	36.48	NCHSLT
NAB006_6-25	25	6	6	40348.7	40348.7	0.61%					20	4	14.46	NCHSLT
NAB016_6-25	25	6	6	40713.5	40713.5	0.74%					15	3	34.78	NCHSLT
NAB026_6-25	25	6	6	42712.2	42712.2	0.90%					15	3	18.31	NCHSLT
NAB036_6-25	25	6	6	41685.6	41685.6	0.92%					25	5	27.81	NCHSLT
NAB046_6-25	25	6	6	44379.9	44379.9	1.45%					20	4	46.33	NCHSLT
NAB056_6-25	25	6	6	41423.3	41423.3	1.33%					20	4	28.47	NCHSLT
NAB066_6-25	25	6	6	39711.8	39711.8	0.21%					30	6	28.90	NCHSLT
NAB076_6-25	25	6	6	43642.2	43642.2	0.84%					15	3	15.38	NCHSLT
NAB086_6-25	25	6	6	41789.5	41789.5	0.54%					25	5	44.04	NCHSLT
NAB096_6-25	25	6	6	43138.0	43138.0	0.62%					25	5	27.89	NCHSLT
NAB0012_6-25	25	6	12	78250.6	78250.6	0.46%					42	7	73.25	NCHSLT
NAB0112_6-25	25	6	12	80772.8	80772.8	0.30%					30	5	70.03	NCHSLT
NAB0212_6-25	25	6	12	81728.7	81728.7	0.89%					36	6	89.22	NCHSLT
NAB0312_6-25	25	6	12	79281.2	79281.2	0.67%					24	4	60.26	NCHSLT
NAB0412_6-25	25	6	12	82360.3	82360.3	0.37%					30	5	77.78	NCHSLT
NAB0512_6-25	25	6	12	78559.2	78559.2	1.07%					24	4	54.63	NCHSLT
NAB0612_6-25	25	6	12	75521.3	75521.3	0.14%					30	5	64.52	NCHSLT
NAB0712_6-25	25	6	12	78901.1	78901.1	0.25%					24	4	22.29	NCHSLT
NAB0812_6-25	25	6	12	77441.7	77441.7	0.83%					30	5	58.13	NCHSLT
NAB0912_6-25	25	6	12	84550.7	84550.7	1.02%					30	5	73.34	NCHSLT
NAB0018_6-25	25	6	18	113467.2	113467.2	0.24%					56	7	141.28	NCHSLT
NAB0118_6-25	25	6	18	119047.9	119047.9	0.21%					40	5	117.42	NCHSLT
NAB0218_6-25	25	6	18	122010.7	122010.7	0.24%					40	5	125.80	NCHSLT
NAB0318_6-25	25	6	18	118546.0	118546.0	-0.02%					56	7	217.77	NCHSLT
NAB0418_6-25	25	6	18	122225.6	122225.6	0.08%					48	6	180.46	NCHSLT
NAB0518_6-25	25	6	18	119256.9	119256.9	0.47%					48	6	112.43	NCHSLT
NAB0618_6-25	25	6	18	110591.0	110591.0	0.23%					40	5	93.63	NCHSLT
NAB0718_6-25	25	6	18	116626.5	116626.5	0.48%					40	5	96.59	NCHSLT
NAB0818_6-25	25	6	18	110735.7	110735.7	-0.02%					48	6	137.57	NCHSLT
NAB0918_6-25	25	6	18	124367.1	124367.1	0.08%					56	7	197.58	NCHSLT
NAB006_6-50	50	6	6	75544.2	75544.2	0.49%					15	3	26.17	NCHSLT
NAB016_6-50	50	6	6	78465.7	78465.7	0.45%					25	5	64.87	NCHSLT
NAB026_6-50	50	6	6	80963.4	80963.4	0.23%					20	4	59.82	NCHSLT
NAB036_6-50	50	6	6	78988.0	78988.0	0.14%					20	4	37.76	NCHSLT
NAB046_6-50	50	6	6	82030.6	82030.6	0.64%					20	4	80.48	NCHSLT
NAB056_6-50	50	6	6	82541.9	82541.9	0.37%					25	5	81.02	NCHSLT
NAB066_6-50	50	6	6	79238.5	79238.5	0.48%					20	4	73.54	NCHSLT
NAB076_6-50	50	6	6	82563.1	82563.1	0.48%					20	4	54.99	NCHSLT
NAB086_6-50	50	6	6	77693.0	77693.0	0.38%					25	5	66.47	NCHSLT
NAB096_6-50	50	6	6	78895.3	78895.3	0.37%					20	4	64.09	NCHSLT
NAB0012_6-50	50	6	12	147008.3	147008.3	0.32%					24	4	65.61	NCHSLT
NAB0112_6-50	50	6	12	149728.4	149728.4	0.23%					30	5	63.49	NCHSLT
NAB0212_6-50	50	6	12	154223.7	154223.7	0.15%					36	6	180.91	NCHSLT
NAB0312_6-50	50	6	12	152599.1	152599.1	0.17%					42	7	104.50	NCHSLT
NAB0412_6-50	50	6	12	159713.3	159713.3	0.22%					36	6	143.47	NCHSLT
NAB0512_6-50	50	6	12	157996.5	157996.5	0.43%					36	6	134.39	NCHSLT
NAB0612_6-50	50	6	12	148752.5	148752.5	0.29%					42	7	180.83	NCHSLT
NAB0712_6-50	50	6	12	157399.7	157399.7	0.13%					24	4	56.76	NCHSLT
NAB0812_6-50	50	6	12	144689.8	144689.8	0.45%					18	3	53.12	NCHSLT
NAB0912_6-50	50	6	12	151897.9	151897.9	0.11%					30	5	104.93	NCHSLT
NAB0018_6-50	50	6	18	216733.4	216733.4	0.04%					32	4	115.60	NCHSLT
NAB0118_6-50	50	6	18	219382.9	219382.9	0.14%					40	5	139.84	NCHSLT
NAB0218_6-50	50	6	18	225070.0	225070.0	0.19%					48	6	241.06	NCHSLT
NAB0318_6-50	50	6	18	226502.2	226502.2	0.07%					40	5	169.30	NCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_6-50	50	6	18	237189.3	237189.3	0.03%					72	9	460.68	NCHSLT
NAB0518_6-50	50	6	18	226490.1	226490.1	0.06%					48	6	164.15	NCHSLT
NAB0618_6-50	50	6	18	220728.8	220728.8	0.04%					48	6	389.02	NCHSLT
NAB0718_6-50	50	6	18	230951.7	230951.7	0.16%					40	5	164.84	NCHSLT
NAB0818_6-50	50	6	18	215612.4	215612.4	0.06%					40	5	126.53	NCHSLT
NAB0918_6-50	50	6	18	225242.1	225242.1	0.10%					40	5	212.19	NCHSLT
NBA006_2-6	6	2	6	8049.4	8049.4	0.12%					15	3	0.49	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%					15	3	0.15	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%					15	3	0.28	NCLSHT
NBA036_2-6	6	2	6	7713.1	7713.1	0.33%					15	3	0.32	NCLSHT
NBA046_2-6	6	2	6	7759.6	7759.6	0.30%					25	5	0.62	NCLSHT
NBA056_2-6	6	2	6	9364.1	9364.1	0.24%					10	2	0.17	NCLSHT
NBA066_2-6	6	2	6	8003.0	8003.0	0.07%					10	2	0.21	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%					10	2	0.19	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%					10	2	0.23	NCLSHT
NBA096_2-6	6	2	6	7088.9	7088.9	0.00%					10	2	0.12	NCLSHT
NBA0012_2-6	6	2	12	15372.7	15372.7	0.14%					18	3	0.97	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%					24	4	0.62	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%					24	4	0.66	NCLSHT
NBA0312_2-6	6	2	12	14531.7	14531.7	0.11%					18	3	0.73	NCLSHT
NBA0412_2-6	6	2	12	13544.8	13544.8	0.46%					24	4	1.41	NCLSHT
NBA0512_2-6	6	2	12	17275.8	17275.8	0.22%					12	2	0.35	NCLSHT
NBA0612_2-6	6	2	12	14771.0	14771.0	0.00%					12	2	0.27	NCLSHT
NBA0712_2-6	6	2	12	16543.2	16543.2	0.01%					18	3	0.84	NCLSHT
NBA0812_2-6	6	2	12	14100.3	14100.3	0.00%					18	3	0.57	NCLSHT
NBA0912_2-6	6	2	12	16056.8	16056.8	0.00%					24	4	0.62	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%					40	5	3.71	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%					24	3	0.80	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%					24	3	1.39	NCLSHT
NBA0318_2-6	6	2	18	22934.8	22934.8	0.04%					32	4	1.85	NCLSHT
NBA0418_2-6	6	2	18	19866.7	19866.7	0.08%					32	4	3.14	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%					16	2	0.62	NCLSHT
NBA0618_2-6	6	2	18	22629.8	22629.8	0.04%					32	4	1.78	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%					32	4	2.84	NCLSHT
NBA0818_2-6	6	2	18	20731.3	20731.3	0.02%					24	3	1.13	NCLSHT
NBA0918_2-6	6	2	18	22405.6	22405.6	0.01%					24	3	0.85	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%					10	2	0.16	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%					15	3	0.35	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%					15	3	0.49	NCLSHT
NBA036_2-12	12	2	6	16299.4	16299.4	0.00%					10	2	0.20	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%					10	2	0.24	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%					10	2	0.18	NCLSHT
NBA066_2-12	12	2	6	13754.3	13754.3	0.20%					15	3	0.35	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%					5	1	0.12	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%					15	3	0.33	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%					20	4	0.78	NCLSHT
NBA0012_2-12	12	2	12	26002.8	26002.8	0.02%					12	2	0.39	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%					18	3	0.56	NCLSHT
NBA0212_2-12	12	2	12	26973.1	26973.1	0.15%					24	4	1.71	NCLSHT
NBA0312_2-12	12	2	12	31645.6	31645.6	0.00%					18	3	0.72	NCLSHT
NBA0412_2-12	12	2	12	28156.9	28156.9	0.03%					18	3	0.90	NCLSHT
NBA0512_2-12	12	2	12	31963.7	31963.7	0.00%					12	2	0.51	NCLSHT
NBA0612_2-12	12	2	12	27147.6	27147.6	0.05%					18	3	0.55	NCLSHT
NBA0712_2-12	12	2	12	30161.7	30161.7	0.01%					18	3	0.53	NCLSHT
NBA0812_2-12	12	2	12	26608.5	26608.5	0.05%					24	4	1.06	NCLSHT
NBA0912_2-12	12	2	12	30780.3	30780.3	0.07%					18	3	1.96	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%					16	2	0.83	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%					24	3	1.81	NCLSHT
NBA0218_2-12	12	2	18	41237.0	41237.0	0.02%					24	3	4.07	NCLSHT
NBA0318_2-12	12	2	18	46065.0	46065.0	0.00%					32	4	2.49	NCLSHT
NBA0418_2-12	12	2	18	44055.3	44055.3	0.06%					24	3	2.13	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%					24	3	1.74	NCLSHT
NBA0618_2-12	12	2	18	40454.2	40454.2	0.00%					32	4	1.73	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%					24	3	1.42	NCLSHT
NBA0818_2-12	12	2	18	41119.5	41119.5	0.00%					16	2	2.35	NCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_2-12	12	2	18	46895.1	46895.1	0.00%					32	4	7.63	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%					10	2	0.40	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%					10	2	0.46	NCLSHT
NBA026_2-25	25	2	6	28314.1	28314.1	0.08%					15	3	0.81	NCLSHT
NBA036_2-25	25	2	6	30091.5	30091.5	0.05%					15	3	0.71	NCLSHT
NBA046_2-25	25	2	6	31276.2	31276.2	0.03%					10	2	0.68	NCLSHT
NBA056_2-25	25	2	6	31286.9	31286.9	0.09%					15	3	0.97	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%					15	3	0.34	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%					15	3	0.69	NCLSHT
NBA086_2-25	25	2	6	31928.1	31928.1	0.16%					15	3	1.09	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%					20	4	1.24	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%					18	3	0.73	NCLSHT
NBA0112_2-25	25	2	12	60755.2	60755.2	0.01%					12	2	1.03	NCLSHT
NBA0212_2-25	25	2	12	56017.1	56017.1	0.07%					24	4	3.22	NCLSHT
NBA0312_2-25	25	2	12	59053.8	59053.8	0.04%					24	4	2.50	NCLSHT
NBA0412_2-25	25	2	12	59436.6	59436.6	0.00%					18	3	1.45	NCLSHT
NBA0512_2-25	25	2	12	64651.4	64651.4	0.00%					18	3	1.38	NCLSHT
NBA0612_2-25	25	2	12	57094.2	57094.2	0.00%					12	2	0.52	NCLSHT
NBA0712_2-25	25	2	12	62604.6	62604.6	0.02%					18	3	1.80	NCLSHT
NBA0812_2-25	25	2	12	62464.4	62464.4	0.00%					24	4	4.56	NCLSHT
NBA0912_2-25	25	2	12	63793.8	63793.8	0.02%					12	2	0.81	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%					16	2	0.99	NCLSHT
NBA0118_2-25	25	2	18	88422.0	88422.0	0.00%					24	3	2.80	NCLSHT
NBA0218_2-25	25	2	18	82860.8	82860.8	0.00%					32	4	5.37	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%					24	3	2.27	NCLSHT
NBA0418_2-25	25	2	18	90294.5	90294.5	0.02%					24	3	6.30	NCLSHT
NBA0518_2-25	25	2	18	94617.5	94617.5	0.01%					24	3	4.77	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%					16	2	0.85	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%					24	3	3.42	NCLSHT
NBA0818_2-25	25	2	18	91141.4	91141.4	0.02%					32	4	9.85	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%					24	3	2.56	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%					10	2	0.61	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%					15	3	0.81	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%					10	2	0.79	NCLSHT
NBA036_2-50	50	2	6	59061.8	59061.8	0.00%					10	2	0.84	NCLSHT
NBA046_2-50	50	2	6	60538.6	60538.6	0.01%					15	3	1.13	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%					10	2	0.62	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%					10	2	0.65	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%					10	2	0.65	NCLSHT
NBA086_2-50	50	2	6	59777.0	59777.0	0.00%					10	2	0.95	NCLSHT
NBA096_2-50	50	2	6	60442.2	60442.2	0.01%					10	2	0.80	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%					6	1	0.59	NCLSHT
NBA0112_2-50	50	2	12	119723.4	119723.4	0.00%					12	2	1.01	NCLSHT
NBA0212_2-50	50	2	12	113773.1	113773.1	0.00%					12	2	1.81	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%					12	2	1.24	NCLSHT
NBA0412_2-50	50	2	12	121762.8	121762.8	0.00%					12	2	1.79	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%					12	2	1.46	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%					12	2	1.28	NCLSHT
NBA0712_2-50	50	2	12	114485.3	114485.3	0.00%					12	2	2.95	NCLSHT
NBA0812_2-50	50	2	12	115042.9	115042.9	0.01%					18	3	3.19	NCLSHT
NBA0912_2-50	50	2	12	122211.6	122211.6	0.00%					12	2	1.44	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%					16	2	2.03	NCLSHT
NBA0118_2-50	50	2	18	178656.8	178656.8	0.00%					16	2	2.71	NCLSHT
NBA0218_2-50	50	2	18	169385.1	169385.1	0.00%					24	3	4.84	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%					24	3	4.12	NCLSHT
NBA0418_2-50	50	2	18	181166.2	181166.2	0.01%					32	4	14.79	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%					16	2	1.96	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%					16	2	2.61	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%					16	2	3.63	NCLSHT
NBA0818_2-50	50	2	18	173120.0	173120.0	0.00%					32	4	11.57	NCLSHT
NBA0918_2-50	50	2	18	182600.1	182600.1	0.00%					16	2	4.38	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%					15	3	0.25	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%					10	2	0.31	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%					10	2	0.26	NCLSHT
NBA036_4-6	6	4	6	6619.3	6619.3	0.00%					15	3	0.51	NCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_4-6	6	4	6	5430.4	5430.4	0.00%					10	2	0.20	NCLSHT
NBA056_4-6	6	4	6	7754.9	7754.9	0.69%					20	4	1.11	NCLSHT
NBA066_4-6	6	4	6	6274.1	6274.1	0.10%					15	3	0.58	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%					15	3	0.29	NCLSHT
NBA086_4-6	6	4	6	5797.5	5797.5	0.09%					15	3	0.39	NCLSHT
NBA096_4-6	6	4	6	8490.5	8490.5	0.10%					20	4	0.66	NCLSHT
NBA0012_4-6	6	4	12	11603.5	11603.5	0.20%					18	3	0.64	NCLSHT
NBA0112_4-6	6	4	12	15071.9	15071.9	0.09%					24	4	3.44	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%					18	3	1.00	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%					24	4	1.21	NCLSHT
NBA0412_4-6	6	4	12	12571.5	12571.5	0.00%					24	4	1.58	NCLSHT
NBA0512_4-6	6	4	12	15598.2	15598.2	0.04%					18	3	3.73	NCLSHT
NBA0612_4-6	6	4	12	12703.5	12703.5	0.62%					18	3	1.28	NCLSHT
NBA0712_4-6	6	4	12	14556.2	14556.2	0.16%					24	4	1.33	NCLSHT
NBA0812_4-6	6	4	12	12165.7	12165.7	0.00%					18	3	1.92	NCLSHT
NBA0912_4-6	6	4	12	14717.5	14717.5	0.12%					18	3	1.07	NCLSHT
NBA0018_4-6	6	4	18	18430.2	18430.2	0.00%					24	3	2.32	NCLSHT
NBA0118_4-6	6	4	18	21322.6	21322.6	0.00%					24	3	4.60	NCLSHT
NBA0218_4-6	6	4	18	21169.6	21169.6	0.00%					24	3	2.24	NCLSHT
NBA0318_4-6	6	4	18	21681.1	21681.1	0.03%					24	3	2.59	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%					32	4	2.52	NCLSHT
NBA0518_4-6	6	4	18	23051.6	23051.6	0.15%					40	5	11.14	NCLSHT
NBA0618_4-6	6	4	18	19485.6	19485.6	0.04%					32	4	5.49	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%					32	4	2.85	NCLSHT
NBA0818_4-6	6	4	18	18069.1	18069.1	0.02%					32	4	3.76	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%					48	6	4.02	NCLSHT
NBA006_4-12	12	4	6	13153.7	13153.7	0.00%					20	4	1.56	NCLSHT
NBA016_4-12	12	4	6	15337.0	15337.0	0.17%					25	5	2.25	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%					15	3	0.63	NCLSHT
NBA036_4-12	12	4	6	12218.4	12218.4	0.01%					15	3	0.80	NCLSHT
NBA046_4-12	12	4	6	14277.8	14277.8	0.00%					15	3	0.59	NCLSHT
NBA056_4-12	12	4	6	14092.9	14092.9	0.00%					15	3	0.97	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%					10	2	0.28	NCLSHT
NBA076_4-12	12	4	6	12420.9	12420.9	0.09%					10	2	0.62	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%					20	4	0.86	NCLSHT
NBA096_4-12	12	4	6	13187.7	13187.7	0.04%					30	6	2.49	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%					18	3	4.01	NCLSHT
NBA0112_4-12	12	4	12	28363.0	28363.0	0.01%					24	4	4.85	NCLSHT
NBA0212_4-12	12	4	12	26402.0	26402.0	0.03%					18	3	1.50	NCLSHT
NBA0312_4-12	12	4	12	25275.1	25275.1	0.00%					24	4	1.85	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%					18	3	1.58	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%					18	3	1.26	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%					18	3	0.86	NCLSHT
NBA0712_4-12	12	4	12	26174.8	26174.8	0.08%					18	3	2.08	NCLSHT
NBA0812_4-12	12	4	12	28007.1	28007.1	0.05%					12	2	1.13	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%					18	3	5.85	NCLSHT
NBA0018_4-12	12	4	18	38035.7	38035.7	0.02%					32	4	11.08	NCLSHT
NBA0118_4-12	12	4	18	41660.4	41660.4	0.07%					40	5	32.42	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%					24	3	4.00	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%					40	5	6.63	NCLSHT
NBA0418_4-12	12	4	18	40570.9	40570.9	0.01%					40	5	14.41	NCLSHT
NBA0518_4-12	12	4	18	41013.2	41013.2	0.03%					32	4	8.79	NCLSHT
NBA0618_4-12	12	4	18	37077.0	37077.0	0.03%					24	3	2.81	NCLSHT
NBA0718_4-12	12	4	18	41043.3	41043.3	0.02%					24	3	8.32	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%					32	4	4.15	NCLSHT
NBA0918_4-12	12	4	18	41429.2	41429.2	0.00%					24	3	18.48	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%					15	3	1.01	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%					15	3	1.32	NCLSHT
NBA026_4-25	25	4	6	27548.3	27548.3	0.00%					10	2	0.66	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%					20	4	1.71	NCLSHT
NBA046_4-25	25	4	6	26626.0	26626.0	0.04%					10	2	0.69	NCLSHT
NBA056_4-25	25	4	6	30122.2	30122.2	0.04%					10	2	0.99	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%					10	2	0.43	NCLSHT
NBA076_4-25	25	4	6	26942.8	26942.8	0.02%					15	3	2.05	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%					10	2	0.65	NCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_4-25	25	4	6	27874.4	27874.4	0.09%					10	2	1.15	NCLSHT
NBA0012_4-25	25	4	12	53588.2	53588.2	0.03%					18	3	6.56	NCLSHT
NBA0112_4-25	25	4	12	56269.0	56269.0	0.02%					18	3	2.36	NCLSHT
NBA0212_4-25	25	4	12	53163.6	53163.6	0.01%					18	3	4.68	NCLSHT
NBA0312_4-25	25	4	12	53949.8	53949.8	0.02%					24	4	5.58	NCLSHT
NBA0412_4-25	25	4	12	54871.9	54871.9	0.01%					12	2	1.60	NCLSHT
NBA0512_4-25	25	4	12	57055.2	57055.2	0.05%					12	2	1.85	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%					12	2	1.10	NCLSHT
NBA0712_4-25	25	4	12	55394.1	55394.1	0.03%					24	4	5.48	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%					12	2	1.44	NCLSHT
NBA0912_4-25	25	4	12	54755.7	54755.7	0.03%					24	4	4.31	NCLSHT
NBA0018_4-25	25	4	18	77879.2	77879.2	0.00%					24	3	14.75	NCLSHT
NBA0118_4-25	25	4	18	83805.9	83805.9	0.01%					16	2	4.15	NCLSHT
NBA0218_4-25	25	4	18	80794.1	80794.1	0.02%					32	4	14.21	NCLSHT
NBA0318_4-25	25	4	18	80246.3	80246.3	0.00%					32	4	7.64	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%					16	2	2.05	NCLSHT
NBA0518_4-25	25	4	18	84243.9	84243.9	0.01%					24	3	5.87	NCLSHT
NBA0618_4-25	25	4	18	77305.9	77305.9	0.00%					24	3	3.43	NCLSHT
NBA0718_4-25	25	4	18	82401.9	82401.9	0.02%					32	4	15.29	NCLSHT
NBA0818_4-25	25	4	18	78379.0	78379.0	0.00%					24	3	4.48	NCLSHT
NBA0918_4-25	25	4	18	82201.5	82201.5	0.00%					32	4	12.06	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%					10	2	1.01	NCLSHT
NBA016_4-50	50	4	6	55352.3	55352.3	0.00%					10	2	1.02	NCLSHT
NBA026_4-50	50	4	6	55982.7	55982.7	0.00%					15	3	1.18	NCLSHT
NBA036_4-50	50	4	6	55089.4	55089.4	0.00%					10	2	1.81	NCLSHT
NBA046_4-50	50	4	6	56679.7	56679.7	0.03%					15	3	4.70	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%					15	3	0.99	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%					10	2	0.80	NCLSHT
NBA076_4-50	50	4	6	51565.6	51565.6	0.00%					10	2	1.01	NCLSHT
NBA086_4-50	50	4	6	52838.0	52838.0	0.01%					10	2	1.70	NCLSHT
NBA096_4-50	50	4	6	60101.0	60101.0	0.00%					10	2	0.82	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%					18	3	13.14	NCLSHT
NBA0112_4-50	50	4	12	108410.9	108410.9	0.00%					18	3	3.16	NCLSHT
NBA0212_4-50	50	4	12	107881.8	107881.8	0.00%					12	2	2.85	NCLSHT
NBA0312_4-50	50	4	12	109984.9	109984.9	0.00%					18	3	6.54	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%					18	3	4.97	NCLSHT
NBA0512_4-50	50	4	12	111977.9	111977.9	0.01%					18	3	3.12	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%					12	2	1.57	NCLSHT
NBA0712_4-50	50	4	12	106406.4	106406.4	0.00%					12	2	6.76	NCLSHT
NBA0812_4-50	50	4	12	106458.6	106458.6	0.00%					12	2	1.87	NCLSHT
NBA0912_4-50	50	4	12	114306.6	114306.6	0.00%					12	2	2.50	NCLSHT
NBA0018_4-50	50	4	18	159939.9	159939.9	0.00%					24	3	7.61	NCLSHT
NBA0118_4-50	50	4	18	161698.4	161698.4	0.01%					16	2	9.59	NCLSHT
NBA0218_4-50	50	4	18	162666.7	162666.7	0.00%					24	3	26.92	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%					24	3	11.27	NCLSHT
NBA0418_4-50	50	4	18	166162.4	166162.4	0.00%					24	3	15.11	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%					16	2	5.38	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%					24	3	6.09	NCLSHT
NBA0718_4-50	50	4	18	161444.6	161444.6	0.01%					24	3	31.43	NCLSHT
NBA0818_4-50	50	4	18	157274.5	157274.5	0.00%					24	3	5.42	NCLSHT
NBA0918_4-50	50	4	18	168431.8	168431.8	0.00%					16	2	7.07	NCLSHT
NBA006_6-6	6	6	6	5607.3	5607.3	0.00%					10	2	0.26	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%					20	4	1.06	NCLSHT
NBA026_6-6	6	6	6	6939.6	6939.6	0.00%					15	3	0.58	NCLSHT
NBA036_6-6	6	6	6	7380.7	7380.7	0.88%					15	3	0.45	NCLSHT
NBA046_6-6	6	6	6	8017.1	8017.1	0.00%					15	3	0.74	NCLSHT
NBA056_6-6	6	6	6	7914.6	7914.6	0.04%					20	4	0.95	NCLSHT
NBA066_6-6	6	6	6	6664.8	6664.8	0.06%					15	3	0.53	NCLSHT
NBA076_6-6	6	6	6	7702.2	7702.2	0.09%					15	3	0.78	NCLSHT
NBA086_6-6	6	6	6	6624.8	6624.8	0.00%					15	3	1.22	NCLSHT
NBA096_6-6	6	6	6	7390.7	7390.7	0.00%					15	3	1.75	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%					24	4	0.79	NCLSHT
NBA0112_6-6	6	6	12	14044.9	14044.9	0.00%					30	5	3.94	NCLSHT
NBA0212_6-6	6	6	12	14140.5	14140.5	0.00%					18	3	1.46	NCLSHT
NBA0312_6-6	6	6	12	14746.4	14746.4	0.29%					24	4	2.15	NCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0412_6-6	6	6	12	14751.7	14751.7	0.01%					18	3	3.34	NCLSHT
NBA0512_6-6	6	6	12	14521.5	14521.5	0.04%					30	5	2.77	NCLSHT
NBA0612_6-6	6	6	12	12571.7	12571.7	0.03%					18	3	2.04	NCLSHT
NBA0712_6-6	6	6	12	15111.1	15111.1	0.01%					24	4	2.80	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%					18	3	1.60	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%					30	5	2.80	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%					32	4	1.91	NCLSHT
NBA0118_6-6	6	6	18	21526.3	21526.3	0.00%					32	4	17.75	NCLSHT
NBA0218_6-6	6	6	18	19872.5	19872.5	0.01%					32	4	5.18	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%					32	4	4.38	NCLSHT
NBA0418_6-6	6	6	18	21953.4	21953.4	0.00%					24	3	6.55	NCLSHT
NBA0518_6-6	6	6	18	22131.6	22131.6	0.01%					32	4	6.78	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%					24	3	5.09	NCLSHT
NBA0718_6-6	6	6	18	21766.0	21766.0	0.03%					32	4	3.81	NCLSHT
NBA0818_6-6	6	6	18	19935.5	19935.5	0.13%					40	5	15.31	NCLSHT
NBA0918_6-6	6	6	18	21302.0	21302.0	0.03%					48	6	12.65	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%					20	4	1.38	NCLSHT
NBA016_6-12	12	6	6	13034.5	13034.5	0.01%					10	2	1.10	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%					15	3	0.65	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%					15	3	0.66	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%					15	3	0.65	NCLSHT
NBA056_6-12	12	6	6	12333.4	12333.4	0.00%					15	3	0.64	NCLSHT
NBA066_6-12	12	6	6	11650.8	11650.8	0.08%					30	6	2.05	NCLSHT
NBA076_6-12	12	6	6	13567.6	13567.6	0.65%					15	3	4.24	NCLSHT
NBA086_6-12	12	6	6	13379.8	13379.8	0.04%					20	4	1.96	NCLSHT
NBA096_6-12	12	6	6	14311.8	14311.8	0.07%					15	3	1.39	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%					18	3	1.59	NCLSHT
NBA0112_6-12	12	6	12	25541.0	25541.0	0.07%					18	3	2.40	NCLSHT
NBA0212_6-12	12	6	12	24040.7	24040.7	0.06%					18	3	4.67	NCLSHT
NBA0312_6-12	12	6	12	26464.2	26464.2	0.07%					18	3	2.36	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%					12	2	0.99	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%					18	3	1.78	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%					24	4	3.81	NCLSHT
NBA0712_6-12	12	6	12	27905.7	27905.7	0.11%					24	4	22.89	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%					30	5	6.47	NCLSHT
NBA0912_6-12	12	6	12	27291.6	27291.6	0.06%					30	5	10.19	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%					24	3	4.31	NCLSHT
NBA0118_6-12	12	6	18	40980.5	40980.5	0.02%					32	4	8.58	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%					24	3	5.16	NCLSHT
NBA0318_6-12	12	6	18	38314.3	38314.3	0.00%					24	3	5.00	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%					24	3	4.43	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%					32	4	10.18	NCLSHT
NBA0618_6-12	12	6	18	37140.3	37140.3	0.00%					32	4	12.11	NCLSHT
NBA0718_6-12	12	6	18	41274.9	41274.9	0.00%					40	5	20.44	NCLSHT
NBA0818_6-12	12	6	18	39068.6	39068.6	0.00%					32	4	43.35	NCLSHT
NBA0918_6-12	12	6	18	41049.4	41049.4	0.04%					32	4	23.85	NCLSHT
NBA006_6-25	25	6	6	25557.6	25557.6	0.01%					10	2	2.81	NCLSHT
NBA016_6-25	25	6	6	25302.8	25302.8	0.01%					15	3	1.63	NCLSHT
NBA026_6-25	25	6	6	26727.4	26727.4	0.04%					15	3	1.72	NCLSHT
NBA036_6-25	25	6	6	26599.6	26599.6	0.13%					15	3	4.22	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%					15	3	3.28	NCLSHT
NBA056_6-25	25	6	6	26229.3	26229.3	0.03%					15	3	2.37	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%					15	3	1.21	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%					15	3	1.86	NCLSHT
NBA086_6-25	25	6	6	26567.2	26567.2	0.02%					15	3	1.60	NCLSHT
NBA096_6-25	25	6	6	26259.9	26259.9	0.00%					20	4	2.39	NCLSHT
NBA0012_6-25	25	6	12	52256.1	52256.1	0.03%					24	4	15.63	NCLSHT
NBA0112_6-25	25	6	12	52477.0	52477.0	0.01%					24	4	29.06	NCLSHT
NBA0212_6-25	25	6	12	53885.6	53885.6	0.01%					24	4	7.30	NCLSHT
NBA0312_6-25	25	6	12	52231.9	52231.9	0.06%					18	3	11.16	NCLSHT
NBA0412_6-25	25	6	12	55786.4	55786.4	0.04%					24	4	37.96	NCLSHT
NBA0512_6-25	25	6	12	51661.1	51661.1	0.04%					18	3	30.88	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%					18	3	1.92	NCLSHT
NBA0712_6-25	25	6	12	52546.5	52546.5	0.03%					24	4	9.47	NCLSHT
NBA0812_6-25	25	6	12	51075.3	51075.3	0.00%					24	4	6.56	NCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_6-25	25	6	12	53465.2	53465.2	0.01%					18	3	10.28	NCLSHT
NBA0018_6-25	25	6	18	76073.3	76073.3	0.01%					32	4	68.55	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%					32	4	17.27	NCLSHT
NBA0218_6-25	25	6	18	81495.4	81495.4	0.00%					32	4	22.78	NCLSHT
NBA0318_6-25	25	6	18	79343.7	79343.7	0.00%					32	4	55.69	NCLSHT
NBA0418_6-25	25	6	18	84599.2	84599.2	0.02%					24	3	56.76	NCLSHT
NBA0518_6-25	25	6	18	80778.7	80778.7	0.00%					40	5	24.26	NCLSHT
NBA0618_6-25	25	6	18	76162.0	76162.0	0.00%					24	3	5.57	NCLSHT
NBA0718_6-25	25	6	18	77493.4	77493.4	0.01%					24	3	16.28	NCLSHT
NBA0818_6-25	25	6	18	74953.6	74953.6	0.02%					24	3	13.56	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%					24	3	13.49	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%					10	2	1.47	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%					10	2	3.49	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%					10	2	2.27	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%					10	2	1.25	NCLSHT
NBA046_6-50	50	6	6	53895.4	53895.4	0.03%					20	4	11.10	NCLSHT
NBA056_6-50	50	6	6	52668.0	52668.0	0.02%					10	2	3.17	NCLSHT
NBA066_6-50	50	6	6	51786.8	51786.8	0.00%					15	3	8.81	NCLSHT
NBA076_6-50	50	6	6	53957.4	53957.4	0.02%					15	3	3.11	NCLSHT
NBA086_6-50	50	6	6	50767.6	50767.6	0.00%					15	3	1.60	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%					10	2	1.25	NCLSHT
NBA0012_6-50	50	6	12	102386.8	102386.8	0.00%					12	2	4.26	NCLSHT
NBA0112_6-50	50	6	12	101408.3	101408.3	0.01%					12	2	6.45	NCLSHT
NBA0212_6-50	50	6	12	104862.2	104862.2	0.00%					18	3	16.38	NCLSHT
NBA0312_6-50	50	6	12	102395.2	102395.2	0.01%					24	4	9.18	NCLSHT
NBA0412_6-50	50	6	12	109571.7	109571.7	0.00%					24	4	14.27	NCLSHT
NBA0512_6-50	50	6	12	105138.8	105138.8	0.00%					18	3	26.45	NCLSHT
NBA0612_6-50	50	6	12	101769.9	101769.9	0.01%					24	4	16.65	NCLSHT
NBA0712_6-50	50	6	12	107434.2	107434.2	0.00%					18	3	5.32	NCLSHT
NBA0812_6-50	50	6	12	99745.0	99745.0	0.00%					24	4	6.13	NCLSHT
NBA0912_6-50	50	6	12	102195.6	102195.6	0.00%					24	4	13.01	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%					24	3	12.37	NCLSHT
NBA0118_6-50	50	6	18	150738.5	150738.5	0.00%					24	3	33.22	NCLSHT
NBA0218_6-50	50	6	18	154214.9	154214.9	0.00%					32	4	51.04	NCLSHT
NBA0318_6-50	50	6	18	154043.0	154043.0	0.01%					24	3	22.57	NCLSHT
NBA0418_6-50	50	6	18	164544.9	164544.9	0.00%					24	3	34.90	NCLSHT
NBA0518_6-50	50	6	18	155176.8	155176.8	0.00%					32	4	69.69	NCLSHT
NBA0618_6-50	50	6	18	153862.5	153862.5	0.00%					24	3	48.48	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%					24	3	21.30	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%					16	2	17.50	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%					32	4	15.66	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%					15	3	0.51	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%					10	2	0.12	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%					15	3	0.30	NCLSLT
NBB036_2-6	6	2	6	7760.8	7760.8	0.60%					20	4	0.39	NCLSLT
NBB046_2-6	6	2	6	7818.6	7818.6	0.26%					15	3	0.32	NCLSLT
NBB056_2-6	6	2	6	9352.7	9352.7	0.00%					15	3	0.21	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%					15	3	0.29	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%					20	4	0.45	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%					10	2	0.20	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%					15	3	0.16	NCLSLT
NBB0012_2-6	6	2	12	15499.7	15499.7	0.07%					24	4	1.37	NCLSLT
NBB0112_2-6	6	2	12	13327.9	13327.9	0.04%					18	3	0.57	NCLSLT
NBB0212_2-6	6	2	12	14650.7	14650.7	0.42%					18	3	0.66	NCLSLT
NBB0312_2-6	6	2	12	14762.7	14762.7	0.22%					30	5	0.94	NCLSLT
NBB0412_2-6	6	2	12	13603.7	13603.7	0.04%					24	4	1.31	NCLSLT
NBB0512_2-6	6	2	12	17392.5	17392.5	0.31%					12	2	0.41	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%					12	2	0.44	NCLSLT
NBB0712_2-6	6	2	12	16618.0	16618.0	0.16%					24	4	1.01	NCLSLT
NBB0812_2-6	6	2	12	14149.8	14149.8	0.07%					18	3	0.73	NCLSLT
NBB0912_2-6	6	2	12	16078.0	16078.0	0.02%					18	3	0.47	NCLSLT
NBB0018_2-6	6	2	18	21689.6	21689.6	0.22%					24	3	3.42	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%					24	3	0.87	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%					24	3	1.66	NCLSLT
NBB0418_2-6	6	2	18	20015.1	20015.1	0.00%					32	4	3.35	NCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%					32	4	1.27	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%					24	3	1.34	NCLSLT
NBB0718_2-6	6	2	18	24301.8	24301.8	0.01%					32	4	3.22	NCLSLT
NBB0818_2-6	6	2	18	20809.2	20809.2	0.00%					32	4	1.79	NCLSLT
NBB0918_2-6	6	2	18	22438.7	22438.7	0.01%					24	3	0.87	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%					10	2	0.19	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%					10	2	0.28	NCLSLT
NBB026_2-12	12	2	6	14057.0	14057.0	0.02%					15	3	0.56	NCLSLT
NBB036_2-12	12	2	6	16322.7	16322.7	0.03%					10	2	0.27	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%					10	2	0.28	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%					20	4	0.46	NCLSLT
NBB066_2-12	12	2	6	13804.5	13804.5	0.41%					10	2	0.32	NCLSLT
NBB076_2-12	12	2	6	15396.6	15396.6	0.00%					10	2	0.26	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%					10	2	0.20	NCLSLT
NBB096_2-12	12	2	6	15906.8	15906.8	0.43%					15	3	0.50	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%					18	3	0.67	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%					18	3	0.62	NCLSLT
NBB0212_2-12	12	2	12	27080.3	27080.3	0.11%					24	4	3.70	NCLSLT
NBB0312_2-12	12	2	12	31698.2	31698.2	0.07%					18	3	0.97	NCLSLT
NBB0412_2-12	12	2	12	28231.6	28231.6	0.03%					30	5	1.85	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%					18	3	0.80	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%					24	4	0.86	NCLSLT
NBB0712_2-12	12	2	12	30253.9	30253.9	0.03%					18	3	0.94	NCLSLT
NBB0812_2-12	12	2	12	26630.0	26630.0	0.02%					24	4	1.36	NCLSLT
NBB0912_2-12	12	2	12	30982.5	30982.5	0.13%					24	4	4.85	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%					24	3	1.48	NCLSLT
NBB0118_2-12	12	2	18	40347.6	40347.6	0.02%					32	4	2.93	NCLSLT
NBB0218_2-12	12	2	18	41453.3	41453.3	0.02%					32	4	7.11	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%					24	3	3.02	NCLSLT
NBB0418_2-12	12	2	18	44112.4	44112.4	0.01%					32	4	4.84	NCLSLT
NBB0518_2-12	12	2	18	47248.5	47248.5	0.03%					16	2	1.63	NCLSLT
NBB0618_2-12	12	2	18	40542.2	40542.2	0.00%					32	4	2.53	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%					24	3	1.58	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%					32	4	3.41	NCLSLT
NBB0918_2-12	12	2	18	47150.7	47150.7	0.01%					32	4	11.70	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%					10	2	0.39	NCLSLT
NBB016_2-25	25	2	6	29864.0	29864.0	0.08%					15	3	0.86	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%					10	2	0.51	NCLSLT
NBB036_2-25	25	2	6	30155.8	30155.8	0.11%					10	2	0.83	NCLSLT
NBB046_2-25	25	2	6	31325.2	31325.2	0.02%					10	2	0.56	NCLSLT
NBB056_2-25	25	2	6	31397.4	31397.4	0.13%					10	2	0.73	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%					10	2	0.25	NCLSLT
NBB076_2-25	25	2	6	31237.5	31237.5	0.03%					10	2	0.59	NCLSLT
NBB086_2-25	25	2	6	31989.1	31989.1	0.08%					15	3	1.07	NCLSLT
NBB096_2-25	25	2	6	33004.5	33004.5	0.08%					10	2	0.67	NCLSLT
NBB0012_2-25	25	2	12	58130.7	58130.7	0.01%					12	2	0.73	NCLSLT
NBB0112_2-25	25	2	12	60823.5	60823.5	0.03%					18	3	3.30	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%					24	4	1.84	NCLSLT
NBB0312_2-25	25	2	12	59102.8	59102.8	0.03%					24	4	2.14	NCLSLT
NBB0412_2-25	25	2	12	59532.8	59532.8	0.01%					24	4	2.28	NCLSLT
NBB0512_2-25	25	2	12	64765.0	64765.0	0.02%					12	2	1.39	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%					12	2	0.51	NCLSLT
NBB0712_2-25	25	2	12	62685.7	62685.7	0.00%					30	5	3.00	NCLSLT
NBB0812_2-25	25	2	12	62621.4	62621.4	0.01%					24	4	3.55	NCLSLT
NBB0912_2-25	25	2	12	63821.6	63821.6	0.03%					18	3	1.49	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%					16	2	1.25	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%					24	3	2.45	NCLSLT
NBB0218_2-25	25	2	18	83121.4	83121.4	0.01%					40	5	8.82	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%					24	3	3.16	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.00%					32	4	6.66	NCLSLT
NBB0518_2-25	25	2	18	94868.6	94868.6	0.06%					24	3	24.12	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%					16	2	1.13	NCLSLT
NBB0718_2-25	25	2	18	92041.2	92041.2	0.01%					40	5	24.40	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.00%					32	4	8.94	NCLSLT
NBB0918_2-25	25	2	18	92935.2	92935.2	0.01%					16	2	5.46	NCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%					10	2	0.53	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%					10	2	0.64	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%					10	2	0.73	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%					10	2	0.81	NCLSLT
NBB046_2-50	50	2	6	60651.7	60651.7	0.00%					10	2	1.08	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%					10	2	0.70	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%					10	2	0.68	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%					10	2	0.78	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%					10	2	1.02	NCLSLT
NBB096_2-50	50	2	6	60526.4	60526.4	0.00%					10	2	0.97	NCLSLT
NBB0012_2-50	50	2	12	117271.2	117271.2	0.00%					18	3	1.60	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%					12	2	1.26	NCLSLT
NBB0212_2-50	50	2	12	113901.0	113901.0	0.00%					12	2	2.31	NCLSLT
NBB0312_2-50	50	2	12	119786.8	119786.8	0.00%					12	2	2.36	NCLSLT
NBB0412_2-50	50	2	12	121921.7	121921.7	0.01%					12	2	4.11	NCLSLT
NBB0512_2-50	50	2	12	119153.5	119153.5	0.00%					24	4	2.79	NCLSLT
NBB0612_2-50	50	2	12	113557.4	113557.4	0.00%					12	2	1.17	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%					12	2	2.17	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%					18	3	3.06	NCLSLT
NBB0912_2-50	50	2	12	122300.2	122300.2	0.01%					18	3	2.58	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%					16	2	2.10	NCLSLT
NBB0118_2-50	50	2	18	178704.0	178704.0	0.00%					16	2	2.33	NCLSLT
NBB0218_2-50	50	2	18	169536.1	169536.1	0.00%					16	2	4.80	NCLSLT
NBB0318_2-50	50	2	18	180942.2	180942.2	0.01%					16	2	4.83	NCLSLT
NBB0418_2-50	50	2	18	181466.0	181466.0	0.00%					24	3	30.80	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%					24	3	5.40	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%					24	3	4.44	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%					16	2	4.01	NCLSLT
NBB0818_2-50	50	2	18	173342.1	173342.1	0.00%					32	4	13.06	NCLSLT
NBB0918_2-50	50	2	18	182743.9	182743.9	0.01%					16	2	7.71	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%					15	3	0.54	NCLSLT
NBB016_4-6	6	4	6	7250.9	7250.9	0.00%					20	4	1.08	NCLSLT
NBB026_4-6	6	4	6	7331.9	7331.9	0.03%					15	3	0.59	NCLSLT
NBB036_4-6	6	4	6	6717.6	6717.6	0.16%					15	3	0.61	NCLSLT
NBB046_4-6	6	4	6	5568.9	5568.9	0.00%					15	3	0.51	NCLSLT
NBB056_4-6	6	4	6	7986.1	7986.1	1.09%					15	3	1.63	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%					15	3	0.48	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%					10	2	0.23	NCLSLT
NBB086_4-6	6	4	6	5882.1	5882.1	0.32%					15	3	0.50	NCLSLT
NBB096_4-6	6	4	6	8521.1	8521.1	0.00%					10	2	0.42	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%					18	3	0.80	NCLSLT
NBB0112_4-6	6	4	12	15263.1	15263.1	0.23%					24	4	2.53	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%					18	3	1.43	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%					24	4	1.20	NCLSLT
NBB0412_4-6	6	4	12	12883.9	12883.9	0.00%					36	6	11.44	NCLSLT
NBB0512_4-6	6	4	12	15863.5	15863.5	0.35%					18	3	4.31	NCLSLT
NBB0612_4-6	6	4	12	12778.4	12778.4	0.04%					18	3	1.11	NCLSLT
NBB0712_4-6	6	4	12	14725.0	14725.0	0.08%					18	3	1.15	NCLSLT
NBB0812_4-6	6	4	12	12370.7	12370.7	0.06%					18	3	1.50	NCLSLT
NBB0912_4-6	6	4	12	14869.8	14869.8	0.23%					18	3	1.16	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%					32	4	5.56	NCLSLT
NBB0118_4-6	6	4	18	21716.4	21716.4	0.00%					32	4	14.22	NCLSLT
NBB0218_4-6	6	4	18	21440.4	21440.4	0.02%					32	4	3.85	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%					32	4	4.91	NCLSLT
NBB0418_4-6	6	4	18	19969.8	19969.8	0.00%					32	4	5.93	NCLSLT
NBB0518_4-6	6	4	18	23489.6	23489.6	0.03%					48	6	17.53	NCLSLT
NBB0618_4-6	6	4	18	19871.4	19871.4	0.02%					24	3	3.99	NCLSLT
NBB0718_4-6	6	4	18	22422.6	22422.6	0.03%					24	3	4.06	NCLSLT
NBB0818_4-6	6	4	18	18198.4	18198.4	0.06%					40	5	5.02	NCLSLT
NBB0918_4-6	6	4	18	22141.8	22141.8	0.00%					32	4	2.93	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%					10	2	0.82	NCLSLT
NBB016_4-12	12	4	6	15431.2	15431.2	0.03%					15	3	1.75	NCLSLT
NBB026_4-12	12	4	6	13158.9	13158.9	0.00%					15	3	0.88	NCLSLT
NBB036_4-12	12	4	6	12368.1	12368.1	0.07%					15	3	1.17	NCLSLT
NBB046_4-12	12	4	6	14371.1	14371.1	0.04%					15	3	1.00	NCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_4-12	12	4	6	14168.8	14168.8	0.00%					20	4	2.32	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%					15	3	0.41	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%					15	3	0.73	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%					15	3	0.70	NCLSLT
NBB096_4-12	12	4	6	13306.2	13306.2	0.19%					15	3	1.58	NCLSLT
NBB0012_4-12	12	4	12	24877.9	24877.9	0.28%					36	6	9.70	NCLSLT
NBB0112_4-12	12	4	12	28626.1	28626.1	0.00%					24	4	14.22	NCLSLT
NBB0212_4-12	12	4	12	26557.8	26557.8	0.09%					30	5	3.89	NCLSLT
NBB0312_4-12	12	4	12	25486.1	25486.1	0.01%					24	4	4.17	NCLSLT
NBB0412_4-12	12	4	12	27362.0	27362.0	0.00%					24	4	2.47	NCLSLT
NBB0512_4-12	12	4	12	27958.9	27958.9	0.02%					30	5	6.26	NCLSLT
NBB0612_4-12	12	4	12	24649.4	24649.4	0.13%					24	4	1.45	NCLSLT
NBB0712_4-12	12	4	12	26357.1	26357.1	0.00%					24	4	4.80	NCLSLT
NBB0812_4-12	12	4	12	28127.9	28127.9	0.00%					18	3	2.17	NCLSLT
NBB0912_4-12	12	4	12	28673.6	28673.6	0.09%					30	5	14.22	NCLSLT
NBB0018_4-12	12	4	18	38503.5	38503.5	0.01%					32	4	43.74	NCLSLT
NBB0118_4-12	12	4	18	42094.4	42094.4	0.00%					40	5	40.00	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%					32	4	8.67	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%					32	4	14.74	NCLSLT
NBB0418_4-12	12	4	18	40754.9	40754.9	0.00%					32	4	12.28	NCLSLT
NBB0518_4-12	12	4	18	41198.3	41198.3	0.03%					24	3	12.60	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%					32	4	4.00	NCLSLT
NBB0718_4-12	12	4	18	41242.7	41242.7	0.00%					32	4	12.76	NCLSLT
NBB0818_4-12	12	4	18	42909.0	42909.0	0.02%					24	3	5.92	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	-0.01%					32	4	37.64	NCLSLT
NBB006_4-25	25	4	6	25609.0	25609.0	0.02%					20	4	3.51	NCLSLT
NBB016_4-25	25	4	6	29513.0	29513.0	0.08%					15	3	1.47	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%					15	3	3.38	NCLSLT
NBB036_4-25	25	4	6	26071.8	26071.8	0.05%					20	4	4.17	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%					10	2	0.56	NCLSLT
NBB056_4-25	25	4	6	30184.7	30184.7	0.05%					20	4	2.62	NCLSLT
NBB066_4-25	25	4	6	25397.8	25397.8	0.05%					10	2	0.71	NCLSLT
NBB076_4-25	25	4	6	27106.2	27106.2	0.05%					20	4	4.61	NCLSLT
NBB086_4-25	25	4	6	26279.6	26279.6	0.05%					15	3	1.32	NCLSLT
NBB096_4-25	25	4	6	27956.4	27956.4	0.00%					10	2	1.26	NCLSLT
NBB0012_4-25	25	4	12	53753.3	53753.3	0.01%					30	5	15.36	NCLSLT
NBB0112_4-25	25	4	12	56377.6	56377.6	0.04%					18	3	4.27	NCLSLT
NBB0212_4-25	25	4	12	53359.9	53359.9	0.03%					24	4	13.99	NCLSLT
NBB0312_4-25	25	4	12	54139.1	54139.1	0.02%					24	4	15.51	NCLSLT
NBB0412_4-25	25	4	12	54996.3	54996.3	0.03%					18	3	4.86	NCLSLT
NBB0512_4-25	25	4	12	57159.1	57159.1	0.06%					18	3	6.17	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%					24	4	3.56	NCLSLT
NBB0712_4-25	25	4	12	55617.3	55617.3	0.01%					24	4	28.78	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%					24	4	7.35	NCLSLT
NBB0912_4-25	25	4	12	54986.0	54986.0	0.04%					24	4	22.75	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.00%					32	4	28.26	NCLSLT
NBB0118_4-25	25	4	18	83918.6	83918.6	0.00%					24	3	9.96	NCLSLT
NBB0218_4-25	25	4	18	81001.2	81001.2	0.00%					24	3	41.16	NCLSLT
NBB0318_4-25	25	4	18	80534.2	80534.2	0.00%					40	5	25.35	NCLSLT
NBB0418_4-25	25	4	18	83348.5	83348.5	0.00%					24	3	3.87	NCLSLT
NBB0518_4-25	25	4	18	84464.0	84464.0	0.01%					32	4	34.10	NCLSLT
NBB0618_4-25	25	4	18	77436.2	77436.2	0.03%					16	2	3.60	NCLSLT
NBB0718_4-25	25	4	18	82788.6	82788.6	0.01%					40	5	88.13	NCLSLT
NBB0818_4-25	25	4	18	78546.3	78546.3	0.03%					32	4	12.25	NCLSLT
NBB0918_4-25	25	4	18	82454.2	82454.2	-0.01%					32	4	45.97	NCLSLT
NBB006_4-50	50	4	6	54640.8	54640.8	0.00%					15	3	1.91	NCLSLT
NBB016_4-50	50	4	6	55422.0	55422.0	0.01%					10	2	1.52	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%					15	3	2.98	NCLSLT
NBB036_4-50	50	4	6	55312.6	55312.6	0.08%					15	3	12.56	NCLSLT
NBB046_4-50	50	4	6	56935.8	56935.8	0.03%					15	3	8.32	NCLSLT
NBB056_4-50	50	4	6	57378.1	57378.1	0.01%					20	4	3.10	NCLSLT
NBB066_4-50	50	4	6	52874.7	52874.7	0.01%					15	3	2.56	NCLSLT
NBB076_4-50	50	4	6	51700.3	51700.3	0.05%					20	4	4.52	NCLSLT
NBB086_4-50	50	4	6	52926.5	52926.5	0.01%					10	2	2.41	NCLSLT
NBB096_4-50	50	4	6	60170.2	60170.2	0.01%					10	2	1.51	NCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_4-50	50	4	12	110453.6	110453.6	0.00%					18	3	20.90	NCLSLT
NBB0112_4-50	50	4	12	108491.1	108491.1	0.01%					18	3	6.80	NCLSLT
NBB0212_4-50	50	4	12	108032.0	108032.0	0.01%					12	2	5.75	NCLSLT
NBB0312_4-50	50	4	12	110201.1	110201.1	0.00%					30	5	14.31	NCLSLT
NBB0412_4-50	50	4	12	109742.5	109742.5	0.01%					24	4	33.19	NCLSLT
NBB0512_4-50	50	4	12	112016.7	112016.7	0.00%					12	2	2.80	NCLSLT
NBB0612_4-50	50	4	12	104018.2	104018.2	0.00%					12	2	2.47	NCLSLT
NBB0712_4-50	50	4	12	106659.8	106659.8	0.01%					24	4	24.71	NCLSLT
NBB0812_4-50	50	4	12	106520.5	106520.5	0.00%					18	3	4.59	NCLSLT
NBB0912_4-50	50	4	12	114395.5	114395.5	0.01%					12	2	4.97	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.00%					24	3	20.03	NCLSLT
NBB0118_4-50	50	4	18	161829.7	161829.7	0.00%					24	3	13.48	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.00%					24	3	24.14	NCLSLT
NBB0318_4-50	50	4	18	163416.4	163416.4	0.01%					24	3	73.98	NCLSLT
NBB0418_4-50	50	4	18	166609.5	166609.5	0.00%					32	4	76.04	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.00%					32	4	14.41	NCLSLT
NBB0618_4-50	50	4	18	156366.5	156366.5	0.00%					24	3	11.73	NCLSLT
NBB0718_4-50	50	4	18	161801.2	161801.2	0.00%					48	6	95.23	NCLSLT
NBB0818_4-50	50	4	18	157363.6	157363.6	0.00%					24	3	7.61	NCLSLT
NBB0918_4-50	50	4	18	168536.5	168536.5	0.00%					24	3	22.51	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%					15	3	0.53	NCLSLT
NBB016_6-6	6	6	6	7364.4	7364.4	0.06%					15	3	2.23	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%					20	4	0.74	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%					20	4	0.75	NCLSLT
NBB046_6-6	6	6	6	8168.9	8168.9	0.00%					15	3	1.82	NCLSLT
NBB056_6-6	6	6	6	8078.2	8078.2	0.13%					20	4	1.14	NCLSLT
NBB066_6-6	6	6	6	6775.2	6775.2	0.01%					20	4	0.89	NCLSLT
NBB076_6-6	6	6	6	7827.1	7827.1	0.00%					15	3	0.77	NCLSLT
NBB086_6-6	6	6	6	6726.0	6726.0	0.00%					20	4	1.98	NCLSLT
NBB096_6-6	6	6	6	7679.8	7679.8	1.02%					20	4	4.07	NCLSLT
NBB0012_6-6	6	6	12	12206.9	12206.9	0.03%					18	3	0.93	NCLSLT
NBB0112_6-6	6	6	12	14405.9	14405.9	0.03%					24	4	2.36	NCLSLT
NBB0212_6-6	6	6	12	14375.1	14375.1	0.06%					18	3	2.24	NCLSLT
NBB0312_6-6	6	6	12	14878.2	14878.2	0.00%					24	4	2.02	NCLSLT
NBB0412_6-6	6	6	12	15165.0	15165.0	0.19%					18	3	4.06	NCLSLT
NBB0512_6-6	6	6	12	14847.2	14847.2	0.07%					18	3	6.48	NCLSLT
NBB0612_6-6	6	6	12	12900.0	12900.0	0.18%					18	3	3.87	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%					24	4	5.39	NCLSLT
NBB0812_6-6	6	6	12	12710.6	12710.6	0.09%					18	3	2.77	NCLSLT
NBB0912_6-6	6	6	12	14430.9	14430.9	0.23%					24	4	4.35	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%					24	3	2.27	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%					32	4	6.22	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%					40	5	6.56	NCLSLT
NBB0418_6-6	6	6	18	22533.2	22533.2	0.04%					24	3	12.84	NCLSLT
NBB0518_6-6	6	6	18	22517.3	22517.3	0.03%					40	5	7.53	NCLSLT
NBB0618_6-6	6	6	18	20310.7	20310.7	0.02%					24	3	11.49	NCLSLT
NBB0718_6-6	6	6	18	22143.3	22143.3	0.09%					24	3	5.64	NCLSLT
NBB0818_6-6	6	6	18	20344.4	20344.4	0.05%					48	6	10.74	NCLSLT
NBB0918_6-6	6	6	18	21833.6	21833.6	0.07%					40	5	25.34	NCLSLT
NBB006_6-12	12	6	6	12851.3	12851.3	0.17%					20	4	1.63	NCLSLT
NBB016_6-12	12	6	6	13175.9	13175.9	0.09%					10	2	1.63	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%					20	4	1.65	NCLSLT
NBB036_6-12	12	6	6	13037.8	13037.8	0.15%					15	3	1.17	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%					20	4	1.28	NCLSLT
NBB056_6-12	12	6	6	12410.7	12410.7	0.00%					15	3	1.07	NCLSLT
NBB066_6-12	12	6	6	11727.7	11727.7	0.00%					20	4	1.54	NCLSLT
NBB076_6-12	12	6	6	13651.8	13651.8	0.05%					15	3	6.06	NCLSLT
NBB086_6-12	12	6	6	13562.5	13562.5	0.25%					20	4	3.09	NCLSLT
NBB096_6-12	12	6	6	14426.6	14426.6	0.00%					20	4	2.25	NCLSLT
NBB0012_6-12	12	6	12	24317.2	24317.2	0.11%					24	4	4.24	NCLSLT
NBB0112_6-12	12	6	12	25794.9	25794.9	0.05%					24	4	7.36	NCLSLT
NBB0212_6-12	12	6	12	24331.1	24331.1	0.18%					24	4	19.35	NCLSLT
NBB0312_6-12	12	6	12	26663.2	26663.2	0.00%					24	4	3.18	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%					18	3	2.67	NCLSLT
NBB0512_6-12	12	6	12	26440.4	26440.4	0.12%					24	4	10.22	NCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0612_6-12	12	6	12	23725.6	23725.6	0.02%					24	4	6.08	NCLSLT
NBB0712_6-12	12	6	12	28226.4	28226.4	0.11%					24	4	27.11	NCLSLT
NBB0812_6-12	12	6	12	26101.1	26101.1	0.11%					24	4	15.68	NCLSLT
NBB0912_6-12	12	6	12	27542.2	27542.2	0.14%					30	5	21.26	NCLSLT
NBB0018_6-12	12	6	18	36609.7	36609.7	0.00%					32	4	13.41	NCLSLT
NBB0118_6-12	12	6	18	41391.9	41391.9	0.03%					32	4	29.50	NCLSLT
NBB0218_6-12	12	6	18	37095.0	37095.0	0.05%					24	3	34.48	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%					40	5	13.99	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%					32	4	8.31	NCLSLT
NBB0518_6-12	12	6	18	40713.7	40713.7	0.04%					40	5	20.00	NCLSLT
NBB0618_6-12	12	6	18	37562.0	37562.0	0.00%					40	5	61.37	NCLSLT
NBB0718_6-12	12	6	18	41762.6	41762.6	-0.02%					48	6	125.38	NCLSLT
NBB0818_6-12	12	6	18	39695.1	39695.1	-0.01%					32	4	81.03	NCLSLT
NBB0918_6-12	12	6	18	41498.2	41498.2	0.02%					32	4	58.82	NCLSLT
NBB006_6-25	25	6	6	25736.7	25736.7	0.03%					15	3	22.64	NCLSLT
NBB016_6-25	25	6	6	25441.2	25441.2	0.01%					15	3	5.48	NCLSLT
NBB026_6-25	25	6	6	26826.7	26826.7	0.00%					15	3	2.39	NCLSLT
NBB036_6-25	25	6	6	26896.3	26896.3	0.11%					15	3	16.09	NCLSLT
NBB046_6-25	25	6	6	28616.8	28616.8	0.09%					25	5	41.50	NCLSLT
NBB056_6-25	25	6	6	26354.1	26354.1	0.03%					15	3	9.01	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%					20	4	3.37	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%					20	4	6.82	NCLSLT
NBB086_6-25	25	6	6	26723.8	26723.8	0.03%					25	5	22.10	NCLSLT
NBB096_6-25	25	6	6	26421.3	26421.3	0.02%					20	4	3.93	NCLSLT
NBB0012_6-25	25	6	12	52555.1	52555.1	0.02%					24	4	39.14	NCLSLT
NBB0112_6-25	25	6	12	52735.3	52735.3	0.02%					24	4	69.14	NCLSLT
NBB0212_6-25	25	6	12	54085.0	54085.0	0.01%					24	4	18.12	NCLSLT
NBB0312_6-25	25	6	12	52590.4	52590.4	0.06%					30	5	75.12	NCLSLT
NBB0412_6-25	25	6	12	56126.4	56126.4	0.01%					24	4	90.12	NCLSLT
NBB0512_6-25	25	6	12	51921.5	51921.5	0.03%					18	3	36.06	NCLSLT
NBB0612_6-25	25	6	12	51038.4	51038.4	0.00%					18	3	4.76	NCLSLT
NBB0712_6-25	25	6	12	52878.2	52878.2	0.08%					30	5	46.35	NCLSLT
NBB0812_6-25	25	6	12	51289.7	51289.7	0.03%					24	4	24.02	NCLSLT
NBB0912_6-25	25	6	12	53721.2	53721.2	0.01%					24	4	34.80	NCLSLT
NBB0018_6-25	25	6	18	76593.7	76593.7	-0.01%					24	3	130.51	NCLSLT
NBB0118_6-25	25	6	18	79524.8	79524.8	0.01%					40	5	108.47	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.00%					24	3	47.79	NCLSLT
NBB0318_6-25	25	6	18	80003.1	80003.1	-0.01%					40	5	287.58	NCLSLT
NBB0418_6-25	25	6	18	85073.2	85073.2	0.01%					24	3	146.88	NCLSLT
NBB0518_6-25	25	6	18	81134.8	81134.8	0.00%					32	4	105.62	NCLSLT
NBB0618_6-25	25	6	18	76379.8	76379.8	0.00%					24	3	17.21	NCLSLT
NBB0718_6-25	25	6	18	77905.1	77905.1	0.00%					40	5	142.12	NCLSLT
NBB0818_6-25	25	6	18	75266.4	75266.4	0.03%					24	3	67.51	NCLSLT
NBB0918_6-25	25	6	18	81476.8	81476.8	0.01%					32	4	64.51	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%					20	4	9.12	NCLSLT
NBB016_6-50	50	6	6	50711.5	50711.5	0.05%					10	2	11.56	NCLSLT
NBB026_6-50	50	6	6	52249.4	52249.4	0.03%					15	3	35.10	NCLSLT
NBB036_6-50	50	6	6	51745.7	51745.7	0.00%					15	3	8.35	NCLSLT
NBB046_6-50	50	6	6	54083.4	54083.4	0.01%					15	3	25.90	NCLSLT
NBB056_6-50	50	6	6	52838.4	52838.4	0.03%					15	3	21.26	NCLSLT
NBB066_6-50	50	6	6	52053.6	52053.6	0.01%					25	5	44.27	NCLSLT
NBB076_6-50	50	6	6	54031.6	54031.6	0.02%					10	2	2.38	NCLSLT
NBB086_6-50	50	6	6	50947.9	50947.9	0.00%					25	5	35.49	NCLSLT
NBB096_6-50	50	6	6	50716.3	50716.3	0.01%					15	3	8.79	NCLSLT
NBB0012_6-50	50	6	12	102544.9	102544.9	0.00%					24	4	31.37	NCLSLT
NBB0112_6-50	50	6	12	101609.4	101609.4	0.01%					18	3	24.49	NCLSLT
NBB0212_6-50	50	6	12	105230.1	105230.1	0.00%					18	3	79.44	NCLSLT
NBB0312_6-50	50	6	12	102666.3	102666.3	0.01%					30	5	39.42	NCLSLT
NBB0412_6-50	50	6	12	109849.0	109849.0	-0.01%					30	5	91.67	NCLSLT
NBB0512_6-50	50	6	12	105544.1	105544.1	0.06%					18	3	41.01	NCLSLT
NBB0612_6-50	50	6	12	102218.7	102218.7	0.02%					24	4	86.64	NCLSLT
NBB0712_6-50	50	6	12	107659.7	107659.7	0.02%					18	3	34.81	NCLSLT
NBB0812_6-50	50	6	12	100000.8	100000.8	0.02%					30	5	52.90	NCLSLT
NBB0912_6-50	50	6	12	102431.0	102431.0	0.01%					24	4	52.64	NCLSLT
NBB0018_6-50	50	6	18	152972.3	152972.3	0.01%					24	3	91.15	NCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_6-50	50	6	18	151115.4	151115.4	0.00%					24	3	69.31	NCLSLT
NBB0218_6-50	50	6	18	154645.2	154645.2	0.00%					40	5	199.62	NCLSLT
NBB0318_6-50	50	6	18	154349.1	154349.1	0.00%					32	4	73.50	NCLSLT
NBB0418_6-50	50	6	18	164992.9	164992.9	0.00%					48	6	216.95	NCLSLT
NBB0518_6-50	50	6	18	155565.4	155565.4	0.01%					40	5	174.73	NCLSLT
NBB0618_6-50	50	6	18	154603.0	154603.0	0.03%					24	3	177.71	NCLSLT
NBB0718_6-50	50	6	18	159220.5	159220.5	0.00%					32	4	126.34	NCLSLT
NBB0818_6-50	50	6	18	151165.8	151165.8	0.00%					40	5	92.41	NCLSLT
NBB0918_6-50	50	6	18	154285.6	154285.6	0.00%					32	4	84.19	NCLSLT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.47	TCHSHT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.47	TCHSHT
AAA016_2-6	6	2	6	12283.2	12283.2	5.46%					10	2	0.45	TCHSHT
AAA026_2-6	6	2	6	16017.5	16017.5	6.62%					20	4	0.55	TCHSHT
AAA036_2-6	6	2	6	21940015117.5	21940015316.9	100.00%					10	2	0.24	TCHSHT
AAA046_2-6	6	2	6	17345.2	17345.2	0.00%					10	2	0.28	TCHSHT
AAA056_2-6	6	2	6	18337.5	18337.5	7.39%					10	2	0.33	TCHSHT
AAA066_2-6	6	2	6	16790.4	16790.4	0.00%					10	2	0.32	TCHSHT
AAA076_2-6	6	2	6	2400017492.4	2400017493.2	100.00%					10	2	0.28	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%					10	2	0.19	TCHSHT
AAA096_2-6	6	2	6	13475.9	13475.9	2.42%					20	4	0.45	TCHSHT
AAA0012_2-6	6	2	12	24990.5	24990.5	1.72%					30	5	1.05	TCHSHT
AAA0112_2-6	6	2	12	24861.9	24861.9	2.45%					36	6	2.59	TCHSHT
AAA0212_2-6	6	2	12	27472.1	27472.1	0.00%					24	4	1.08	TCHSHT
AAA0412_2-6	6	2	12	32860028429.3	32860028484.7	100.00%					18	3	0.85	TCHSHT
AAA0512_2-6	6	2	12	32648.8	32648.8	2.98%					24	4	1.59	TCHSHT
AAA0612_2-6	6	2	12	29668.6	29668.6	2.78%					36	6	1.90	TCHSHT
AAA0712_2-6	6	2	12	27469.7	27469.7	0.06%					36	6	1.49	TCHSHT
AAA0812_2-6	6	2	12	22923.8	22923.8	1.87%					24	4	0.81	TCHSHT
AAA0912_2-6	6	2	12	28311.6	28311.6	1.95%					36	6	1.85	TCHSHT
AAA0018_2-6	6	2	18	33899.7	33899.7	0.14%					32	4	2.87	TCHSHT
AAA0118_2-6	6	2	18	34591.7	34591.7	1.17%					48	6	6.19	TCHSHT
AAA0218_2-6	6	2	18	40191.0	40191.0	1.25%					40	5	6.91	TCHSHT
AAA0418_2-6	6	2	18	37243.4	37243.4	0.08%					40	5	4.22	TCHSHT
AAA0518_2-6	6	2	18	42959.5	42959.5	0.53%					48	6	4.49	TCHSHT
AAA0618_2-6	6	2	18	39895.0	39895.0	1.07%					48	6	2.59	TCHSHT
AAA0718_2-6	6	2	18	39860.7	39860.7	0.60%					48	6	4.20	TCHSHT
AAA0818_2-6	6	2	18	32109.2	32109.2	0.27%					32	4	1.46	TCHSHT
AAA0918_2-6	6	2	18	36704.0	36704.0	1.17%					56	7	6.23	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%					10	2	0.38	TCHSHT
AAA016_2-12	12	2	6	25835.3	25835.3	1.24%					15	3	0.86	TCHSHT
AAA026_2-12	12	2	6	27180.2	27180.2	0.94%					10	2	0.77	TCHSHT
AAA036_2-12	12	2	6	30163.0	30163.0	1.13%					15	3	1.20	TCHSHT
AAA046_2-12	12	2	6	26132.4	26132.4	0.80%					15	3	0.72	TCHSHT
AAA056_2-12	12	2	6	30284.3	30284.3	1.39%					10	2	0.88	TCHSHT
AAA066_2-12	12	2	6	26557.1	26557.1	1.42%					10	2	0.53	TCHSHT
AAA076_2-12	12	2	6	27066.4	27066.4	3.58%					10	2	0.34	TCHSHT
AAA086_2-12	12	2	6	24651.5	24651.5	0.28%					20	4	1.10	TCHSHT
AAA096_2-12	12	2	6	28361.3	28361.3	0.76%					25	5	1.19	TCHSHT
AAA0012_2-12	12	2	12	42526.3	42526.3	1.04%					18	3	6.08	TCHSHT
AAA0112_2-12	12	2	12	42572.5	42572.5	0.77%					24	4	2.23	TCHSHT
AAA0212_2-12	12	2	12	45429.2	45429.2	1.27%					24	4	2.88	TCHSHT
AAA0312_2-12	12	2	12	54294.5	54294.5	1.31%					36	6	8.73	TCHSHT
AAA0412_2-12	12	2	12	45742.9	45742.9	0.38%					30	5	2.15	TCHSHT
AAA0512_2-12	12	2	12	53976.4	53976.4	1.43%					30	5	6.70	TCHSHT
AAA0612_2-12	12	2	12	47223.5	47223.5	1.64%					24	4	3.40	TCHSHT
AAA0712_2-12	12	2	12	49730.4	49730.4	0.40%					42	7	4.61	TCHSHT
AAA0812_2-12	12	2	12	42561.0	42561.0	1.01%					30	5	2.46	TCHSHT
AAA0912_2-12	12	2	12	52576.5	52576.5	1.17%					36	6	9.68	TCHSHT
AAA0118_2-12	12	2	18	63419.0	63419.0	0.56%					40	5	10.47	TCHSHT
AAA0218_2-12	12	2	18	66855.0	66855.0	0.27%					48	6	22.71	TCHSHT
AAA0318_2-12	12	2	18	76891.0	76891.0	0.57%					48	6	14.50	TCHSHT
AAA0418_2-12	12	2	18	68526.7	68526.7	0.38%					48	6	16.58	TCHSHT
AAA0518_2-12	12	2	18	75353.2	75353.2	0.73%					48	6	15.15	TCHSHT
AAA0618_2-12	12	2	18	67583.5	67583.5	0.72%					56	7	26.03	TCHSHT
AAA0718_2-12	12	2	18	68327.0	68327.0	0.08%					24	3	3.78	TCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0818_2-12	12	2	18	66037.0	66037.0	0.55%					48	6	19.18	TCHSHT
AAA0918_2-12	12	2	18	75047.5	75047.5	1.00%					40	5	34.10	TCHSHT
AAA006_2-25	25	2	6	49702.0	49702.0	0.94%					10	2	1.84	TCHSHT
AAA016_2-25	25	2	6	50428.5	50428.5	0.95%					10	2	1.03	TCHSHT
AAA026_2-25	25	2	6	53905.9	53905.9	0.94%					15	3	2.83	TCHSHT
AAA036_2-25	25	2	6	55643.4	55643.4	1.40%					10	2	1.03	TCHSHT
AAA046_2-25	25	2	6	56247.0	56247.0	0.11%					10	2	0.90	TCHSHT
AAA056_2-25	25	2	6	59414.4	59414.4	1.04%					15	3	2.40	TCHSHT
AAA066_2-25	25	2	6	47786.3	47786.3	1.01%					10	2	0.74	TCHSHT
AAA076_2-25	25	2	6	53574.7	53574.7	0.50%					15	3	2.42	TCHSHT
AAA086_2-25	25	2	6	56941.6	56941.6	0.55%					15	3	2.07	TCHSHT
AAA096_2-25	25	2	6	63525.9	63525.9	1.42%					15	3	2.92	TCHSHT
AAA0012_2-25	25	2	12	90848.7	90848.7	0.47%					18	3	7.79	TCHSHT
AAA0112_2-25	25	2	12	96306.6	96306.6	0.51%					30	5	9.87	TCHSHT
AAA0212_2-25	25	2	12	93835.3	93835.3	0.83%					24	4	21.73	TCHSHT
AAA0312_2-25	25	2	12	97357.1	97357.1	0.66%					18	3	8.36	TCHSHT
AAA0412_2-25	25	2	12	96215.9	96215.9	0.33%					24	4	13.39	TCHSHT
AAA0512_2-25	25	2	12	109167.3	109167.3	0.33%					36	6	25.20	TCHSHT
AAA0612_2-25	25	2	12	92123.3	92123.3	0.11%					30	5	7.15	TCHSHT
AAA0712_2-25	25	2	12	97331.6	97331.6	0.27%					24	4	13.01	TCHSHT
AAA0812_2-25	25	2	12	101243.3	101243.3	0.36%					30	5	18.35	TCHSHT
AAA0912_2-25	25	2	12	106926.4	106926.4	0.82%					24	4	21.02	TCHSHT
AAA0018_2-25	25	2	18	130981.7	130981.7	0.30%					40	5	44.21	TCHSHT
AAA0118_2-25	25	2	18	134929.4	134929.4	0.37%					32	4	19.14	TCHSHT
AAA0218_2-25	25	2	18	132826.2	132826.2	0.06%					32	4	46.03	TCHSHT
AAA0318_2-25	25	2	18	145073.8	145073.8	0.26%					32	4	33.39	TCHSHT
AAA0418_2-25	25	2	18	139438.6	139438.6	0.04%					40	5	47.31	TCHSHT
AAA0518_2-25	25	2	18	152158.7	152158.7	0.20%					48	6	86.26	TCHSHT
AAA0618_2-25	25	2	18	128971.7	128971.7	0.00%					40	5	19.93	TCHSHT
AAA0718_2-25	25	2	18	143911.0	143911.0	0.16%					40	5	87.41	TCHSHT
AAA0818_2-25	25	2	18	141832.6	141832.6	0.18%					40	5	63.93	TCHSHT
AAA0918_2-25	25	2	18	152915.9	152915.9	0.35%					48	6	66.46	TCHSHT
AAA006_2-50	50	2	6	97169.9	97169.9	0.10%					10	2	2.13	TCHSHT
AAA016_2-50	50	2	6	100449.8	100449.8	0.14%					20	4	2.48	TCHSHT
AAA026_2-50	50	2	6	98867.1	98867.1	0.28%					20	4	5.64	TCHSHT
AAA036_2-50	50	2	6	106336.6	106336.6	0.21%					15	3	6.45	TCHSHT
AAA046_2-50	50	2	6	112958.5	112958.5	0.25%					20	4	15.44	TCHSHT
AAA056_2-50	50	2	6	110329.6	110329.6	0.08%					15	3	11.73	TCHSHT
AAA066_2-50	50	2	6	99153.1	99153.1	0.16%					10	2	3.68	TCHSHT
AAA076_2-50	50	2	6	106540.2	106540.2	0.28%					15	3	17.15	TCHSHT
AAA086_2-50	50	2	6	102958.0	102958.0	0.07%					20	4	7.52	TCHSHT
AAA096_2-50	50	2	6	107963.7	107963.7	0.08%					15	3	2.52	TCHSHT
AAA0012_2-50	50	2	12	180262.7	180262.7	0.23%					18	3	37.78	TCHSHT
AAA0112_2-50	50	2	12	187059.0	187059.0	0.20%					18	3	19.96	TCHSHT
AAA0212_2-50	50	2	12	181245.8	181245.8	0.22%					24	4	21.07	TCHSHT
AAA0312_2-50	50	2	12	192736.5	192736.5	0.11%					24	4	18.21	TCHSHT
AAA0412_2-50	50	2	12	201304.0	201304.0	0.23%					18	3	42.53	TCHSHT
AAA0512_2-50	50	2	12	198097.3	198097.3	0.11%					30	5	25.12	TCHSHT
AAA0612_2-50	50	2	12	177532.8	177532.8	0.17%					30	5	20.47	TCHSHT
AAA0712_2-50	50	2	12	191271.5	191271.5	0.47%					24	4	60.93	TCHSHT
AAA0812_2-50	50	2	12	183302.8	183302.8	0.09%					18	3	16.15	TCHSHT
AAA0912_2-50	50	2	12	195407.4	195407.4	0.14%					36	6	80.61	TCHSHT
AAA0018_2-50	50	2	18	262034.3	262034.3	0.06%					32	4	44.16	TCHSHT
AAA0118_2-50	50	2	18	270368.6	270368.6	0.05%					24	3	44.44	TCHSHT
AAA0218_2-50	50	2	18	261343.7	261343.7	0.17%					40	5	107.93	TCHSHT
AAA0318_2-50	50	2	18	282381.9	282381.9	0.04%					48	6	59.72	TCHSHT
AAA0418_2-50	50	2	18	293019.8	293019.8	0.09%					40	5	171.99	TCHSHT
AAA0518_2-50	50	2	18	288016.1	288016.1	0.10%					24	3	53.69	TCHSHT
AAA0618_2-50	50	2	18	259622.1	259622.1	0.07%					40	5	50.30	TCHSHT
AAA0718_2-50	50	2	18	274209.8	274209.8	0.09%					32	4	73.15	TCHSHT
AAA0818_2-50	50	2	18	265987.4	265987.4	0.08%					40	5	83.96	TCHSHT
AAA0918_2-50	50	2	18	284380.8	284380.8	0.09%					32	4	62.96	TCHSHT
AAA006_4-6	6	4	6	9748.7	9748.7	1.13%					15	3	0.53	TCHSHT
AAA016_4-6	6	4	6	12565.7	12565.7	2.43%					25	5	2.23	TCHSHT
AAA026_4-6	6	4	6	12068.0	12068.0	0.00%					20	4	0.68	TCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA036_4-6	6	4	6	12615.1	12615.1	0.00%					15	3	0.50	TCHSHT
AAA046_4-6	6	4	6	10915.4	10915.4	2.07%					15	3	1.10	TCHSHT
AAA056_4-6	6	4	6	16347.9	16347.9	5.88%					15	3	0.73	TCHSHT
AAA066_4-6	6	4	6	12432.1	12432.1	1.16%					20	4	0.70	TCHSHT
AAA076_4-6	6	4	6	14305.2	14305.2	3.77%					15	3	0.59	TCHSHT
AAA086_4-6	6	4	6	10059.2	10059.2	1.20%					20	4	0.48	TCHSHT
AAA096_4-6	6	4	6	15047.3	15047.3	1.84%					20	4	0.92	TCHSHT
AAA0012_4-6	6	4	12	17881.7	17881.7	0.32%					30	5	1.39	TCHSHT
AAA0112_4-6	6	4	12	25412.6	25412.6	0.88%					30	5	9.19	TCHSHT
AAA0212_4-6	6	4	12	23450.5	23450.5	1.70%					30	5	3.74	TCHSHT
AAA0312_4-6	6	4	12	25650.1	25650.1	0.38%					30	5	1.41	TCHSHT
AAA0412_4-6	6	4	12	23610.9	23610.9	0.61%					24	4	5.82	TCHSHT
AAA0512_4-6	6	4	12	30743.4	30743.4	1.59%					24	4	4.03	TCHSHT
AAA0612_4-6	6	4	12	21926.0	21926.0	1.65%					24	4	1.44	TCHSHT
AAA0712_4-6	6	4	12	24512.0	24512.0	0.24%					30	5	2.33	TCHSHT
AAA0812_4-6	6	4	12	21455.7	21455.7	1.52%					36	6	8.13	TCHSHT
AAA0912_4-6	6	4	12	26264.6	26264.6	1.02%					24	4	1.39	TCHSHT
AAA0018_4-6	6	4	18	27453.9	27453.9	0.29%					40	5	4.55	TCHSHT
AAA0118_4-6	6	4	18	33678.0	33678.0	1.07%					48	6	27.98	TCHSHT
AAA0218_4-6	6	4	18	33333.2	33333.2	0.47%					32	4	6.49	TCHSHT
AAA0318_4-6	6	4	18	39238.3	39238.3	0.79%					56	7	14.88	TCHSHT
AAA0418_4-6	6	4	18	35070.2	35070.2	0.49%					48	6	24.14	TCHSHT
AAA0518_4-6	6	4	18	43614.9	43614.9	1.87%					40	5	8.94	TCHSHT
AAA0618_4-6	6	4	18	33655.7	33655.7	0.96%					40	5	9.48	TCHSHT
AAA0718_4-6	6	4	18	37170.1	37170.1	0.66%					40	5	8.62	TCHSHT
AAA0818_4-6	6	4	18	27977.6	27977.6	0.16%					40	5	13.23	TCHSHT
AAA0918_4-6	6	4	18	38646.4	38646.4	1.03%					32	4	4.91	TCHSHT
AAA006_4-12	12	4	6	20488.7	20488.7	0.29%					20	4	2.19	TCHSHT
AAA016_4-12	12	4	6	23838.0	23838.0	0.33%					25	5	5.44	TCHSHT
AAA026_4-12	12	4	6	19040.6	19040.6	1.17%					20	4	1.41	TCHSHT
AAA036_4-12	12	4	6	21020.1	21020.1	1.42%					25	5	2.87	TCHSHT
AAA046_4-12	12	4	6	23054.3	23054.3	0.00%					20	4	2.45	TCHSHT
AAA056_4-12	12	4	6	24490.5	24490.5	1.31%					15	3	1.31	TCHSHT
AAA066_4-12	12	4	6	21551.8	21551.8	1.68%					20	4	2.64	TCHSHT
AAA076_4-12	12	4	6	22481.5	22481.5	4.60%					20	4	16.42	TCHSHT
AAA086_4-12	12	4	6	22840.2	22840.2	0.71%					15	3	1.41	TCHSHT
AAA096_4-12	12	4	6	22126.2	22126.2	0.00%					20	4	2.28	TCHSHT
AAA0012_4-12	12	4	12	36698.4	36698.4	0.32%					24	4	19.85	TCHSHT
AAA0112_4-12	12	4	12	42364.2	42364.2	1.54%					30	5	35.23	TCHSHT
AAA0212_4-12	12	4	12	37595.0	37595.0	0.56%					24	4	9.50	TCHSHT
AAA0312_4-12	12	4	12	41017.0	41017.0	0.33%					30	5	12.33	TCHSHT
AAA0412_4-12	12	4	12	42768.7	42768.7	0.60%					30	5	11.20	TCHSHT
AAA0512_4-12	12	4	12	47069.5	47069.5	2.11%					24	4	20.52	TCHSHT
AAA0612_4-12	12	4	12	40384.8	40384.8	0.91%					30	5	15.86	TCHSHT
AAA0712_4-12	12	4	12	43084.0	43084.0	0.46%					36	6	30.44	TCHSHT
AAA0812_4-12	12	4	12	41907.1	41907.1	0.20%					24	4	3.15	TCHSHT
AAA0912_4-12	12	4	12	45368.4	45368.4	0.83%					30	5	22.95	TCHSHT
AAA0018_4-12	12	4	18	54781.3	54781.3	0.39%					40	5	34.21	TCHSHT
AAA0118_4-12	12	4	18	61358.5	61358.5	0.51%					48	6	74.54	TCHSHT
AAA0218_4-12	12	4	18	53992.6	53992.6	0.35%					40	5	15.95	TCHSHT
AAA0318_4-12	12	4	18	62549.3	62549.3	0.03%					48	6	35.62	TCHSHT
AAA0418_4-12	12	4	18	63420.3	63420.3	0.19%					48	6	62.10	TCHSHT
AAA0518_4-12	12	4	18	67126.6	67126.6	0.24%					56	7	33.03	TCHSHT
AAA0618_4-12	12	4	18	59535.7	59535.7	0.12%					40	5	17.52	TCHSHT
AAA0718_4-12	12	4	18	66285.0	66285.0	0.26%					56	7	115.29	TCHSHT
AAA0818_4-12	12	4	18	63710.1	63710.1	0.43%					48	6	29.66	TCHSHT
AAA0918_4-12	12	4	18	64148.1	64148.1	0.65%					48	6	43.06	TCHSHT
AAA006_4-25	25	4	6	37846.8	37846.8	0.34%					15	3	5.19	TCHSHT
AAA016_4-25	25	4	6	46446.7	46446.7	0.66%					20	4	8.50	TCHSHT
AAA026_4-25	25	4	6	43949.4	43949.4	1.03%					15	3	11.51	TCHSHT
AAA036_4-25	25	4	6	43623.8	43623.8	1.02%					15	3	9.04	TCHSHT
AAA046_4-25	25	4	6	44865.5	44865.5	1.46%					20	4	16.24	TCHSHT
AAA056_4-25	25	4	6	48279.7	48279.7	0.59%					35	7	26.02	TCHSHT
AAA066_4-25	25	4	6	38422.9	38422.9	0.27%					15	3	1.29	TCHSHT
AAA076_4-25	25	4	6	43882.2	43882.2	0.24%					15	3	12.72	TCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA086_4-25	25	4	6	41015.4	41015.4	1.41%					20	4	5.04	TCHSHT
AAA096_4-25	25	4	6	46444.4	46444.4	0.29%					20	4	13.05	TCHSHT
AAA0012_4-25	25	4	12	75739.5	75739.5	0.29%					24	4	31.01	TCHSHT
AAA0112_4-25	25	4	12	84634.5	84634.5	0.79%					24	4	60.47	TCHSHT
AAA0212_4-25	25	4	12	80263.3	80263.3	0.56%					30	5	74.48	TCHSHT
AAA0312_4-25	25	4	12	84313.2	84313.2	0.52%					30	5	51.71	TCHSHT
AAA0412_4-25	25	4	12	84871.4	84871.4	0.61%					30	5	50.62	TCHSHT
AAA0512_4-25	25	4	12	88119.2	88119.2	0.80%					36	6	67.41	TCHSHT
AAA0612_4-25	25	4	12	74509.9	74509.9	0.42%					30	5	21.73	TCHSHT
AAA0712_4-25	25	4	12	84331.8	84331.8	0.02%					30	5	31.93	TCHSHT
AAA0812_4-25	25	4	12	79316.8	79316.8	0.40%					30	5	54.94	TCHSHT
AAA0912_4-25	25	4	12	85436.0	85436.0	0.63%					24	4	23.67	TCHSHT
AAA0018_4-25	25	4	18	109957.4	109957.4	0.18%					40	5	70.31	TCHSHT
AAA0118_4-25	25	4	18	122378.7	122378.7	0.23%					40	5	128.95	TCHSHT
AAA0218_4-25	25	4	18	118698.5	118698.5	0.25%					40	5	129.81	TCHSHT
AAA0318_4-25	25	4	18	122440.4	122440.4	0.11%					40	5	64.89	TCHSHT
AAA0418_4-25	25	4	18	125529.1	125529.1	0.52%					32	4	50.35	TCHSHT
AAA0518_4-25	25	4	18	127191.2	127191.2	0.46%					56	7	97.43	TCHSHT
AAA0618_4-25	25	4	18	111282.0	111282.0	0.24%					32	4	42.84	TCHSHT
AAA0718_4-25	25	4	18	123054.9	123054.9	0.18%					40	5	51.90	TCHSHT
AAA0818_4-25	25	4	18	113216.9	113216.9	0.06%					32	4	62.52	TCHSHT
AAA0918_4-25	25	4	18	125011.9	125011.9	0.08%					32	4	36.43	TCHSHT
AAA006_4-50	50	4	6	81904.2	81904.2	0.26%					20	4	17.83	TCHSHT
AAA016_4-50	50	4	6	85024.5	85024.5	0.20%					20	4	14.12	TCHSHT
AAA026_4-50	50	4	6	87325.9	87325.9	0.20%					15	3	37.70	TCHSHT
AAA036_4-50	50	4	6	88273.2	88273.2	0.25%					15	3	5.42	TCHSHT
AAA046_4-50	50	4	6	94787.4	94787.4	0.33%					20	4	62.95	TCHSHT
AAA056_4-50	50	4	6	89787.2	89787.2	0.24%					15	3	20.81	TCHSHT
AAA066_4-50	50	4	6	80097.4	80097.4	0.26%					20	4	13.02	TCHSHT
AAA076_4-50	50	4	6	83905.6	83905.6	0.24%					20	4	17.91	TCHSHT
AAA086_4-50	50	4	6	84083.5	84083.5	0.26%					15	3	23.26	TCHSHT
AAA096_4-50	50	4	6	94895.2	94895.2	0.21%					15	3	21.65	TCHSHT
AAA0012_4-50	50	4	12	160394.0	160394.0	0.12%					24	4	53.85	TCHSHT
AAA0112_4-50	50	4	12	157780.3	157780.3	0.10%					30	5	48.19	TCHSHT
AAA0212_4-50	50	4	12	159564.8	159564.8	0.24%					24	4	70.80	TCHSHT
AAA0312_4-50	50	4	12	166929.1	166929.1	0.21%					30	5	59.26	TCHSHT
AAA0412_4-50	50	4	12	171701.3	171701.3	0.14%					24	4	51.69	TCHSHT
AAA0512_4-50	50	4	12	165346.4	165346.4	0.06%					24	4	40.46	TCHSHT
AAA0612_4-50	50	4	12	150564.1	150564.1	0.02%					30	5	28.95	TCHSHT
AAA0712_4-50	50	4	12	162910.5	162910.5	0.27%					18	3	38.81	TCHSHT
AAA0812_4-50	50	4	12	158146.9	158146.9	0.44%					24	4	62.25	TCHSHT
AAA0912_4-50	50	4	12	172950.5	172950.5	0.15%					30	5	39.89	TCHSHT
AAA0018_4-50	50	4	18	228731.3	228731.3	0.05%					40	5	83.12	TCHSHT
AAA0118_4-50	50	4	18	233037.7	233037.7	0.11%					32	4	93.01	TCHSHT
AAA0218_4-50	50	4	18	238945.9	238945.9	0.06%					40	5	135.37	TCHSHT
AAA0318_4-50	50	4	18	243847.2	243847.2	0.10%					32	4	69.27	TCHSHT
AAA0418_4-50	50	4	18	254317.7	254317.7	0.21%					56	7	190.13	TCHSHT
AAA0518_4-50	50	4	18	245017.1	245017.1	0.09%					48	6	114.18	TCHSHT
AAA0618_4-50	50	4	18	224198.1	224198.1	0.01%					40	5	49.64	TCHSHT
AAA0718_4-50	50	4	18	241519.5	241519.5	0.07%					56	7	201.42	TCHSHT
AAA0818_4-50	50	4	18	228261.7	228261.7	0.03%					40	5	72.84	TCHSHT
AAA0918_4-50	50	4	18	252223.4	252223.4	0.06%					48	6	97.52	TCHSHT
AAA006_6-6	6	6	6	9919.9	9919.9	3.20%					15	3	0.94	TCHSHT
AAA016_6-6	6	6	6	13297.8	13297.8	1.31%					35	7	6.15	TCHSHT
AAA026_6-6	6	6	6	12268.3	12268.3	0.45%					20	4	0.90	TCHSHT
AAA036_6-6	6	6	6	14313.8	14313.8	2.80%					20	4	2.37	TCHSHT
AAA046_6-6	6	6	6	14236.7	14236.7	1.28%					30	6	1.19	TCHSHT
AAA056_6-6	6	6	6	16729.9	16729.9	2.11%					20	4	1.37	TCHSHT
AAA066_6-6	6	6	6	11644.6	11644.6	0.55%					20	4	1.90	TCHSHT
AAA076_6-6	6	6	6	15368.9	15368.9	0.13%					20	4	1.29	TCHSHT
AAA086_6-6	6	6	6	14924.8	14924.8	2.27%					15	3	1.19	TCHSHT
AAA096_6-6	6	6	6	16009.4	16009.4	0.55%					30	6	3.06	TCHSHT
AAA0012_6-6	6	6	12	19994.6	19994.6	0.67%					30	5	3.14	TCHSHT
AAA0112_6-6	6	6	12	24536.0	24536.0	1.25%					48	8	7.49	TCHSHT
AAA0212_6-6	6	6	12	24191.9	24191.9	0.46%					24	4	3.42	TCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0312_6-6	6	6	12	27290.8	27290.8	0.22%					24	4	4.73	TCHSHT
AAA0412_6-6	6	6	12	27564.4	27564.4	2.49%					30	5	13.69	TCHSHT
AAA0512_6-6	6	6	12	28714.4	28714.4	0.50%					30	5	5.45	TCHSHT
AAA0612_6-6	6	6	12	23364.5	23364.5	2.22%					30	5	3.65	TCHSHT
AAA0712_6-6	6	6	12	28875.5	28875.5	0.57%					30	5	3.66	TCHSHT
AAA0812_6-6	6	6	12	27065.8	27065.8	1.77%					30	5	19.71	TCHSHT
AAA0912_6-6	6	6	12	30624.3	30624.3	1.90%					48	8	9.28	TCHSHT
AAA0018_6-6	6	6	18	29563.6	29563.6	1.20%					32	4	8.32	TCHSHT
AAA0218_6-6	6	6	18	32766.5	32766.5	0.34%					32	4	9.24	TCHSHT
AAA0318_6-6	6	6	18	38366.5	38366.5	0.06%					32	4	15.70	TCHSHT
AAA0418_6-6	6	6	18	39338.3	39338.3	0.55%					32	4	21.81	TCHSHT
AAA0518_6-6	6	6	18	44240.0	44240.0	0.39%					40	5	23.45	TCHSHT
AAA0618_6-6	6	6	18	33662.4	33662.4	0.19%					56	7	20.68	TCHSHT
AAA0718_6-6	6	6	18	42166.2	42166.2	0.04%					48	6	22.49	TCHSHT
AAA0818_6-6	6	6	18	43003.5	43003.5	0.78%					56	7	37.40	TCHSHT
AAA0918_6-6	6	6	18	46635.0	46635.0	1.32%					72	9	67.19	TCHSHT
AAA006_6-12	12	6	6	20746.2	20746.2	0.82%					15	3	3.33	TCHSHT
AAA016_6-12	12	6	6	21012.2	21012.2	0.78%					25	5	17.58	TCHSHT
AAA026_6-12	12	6	6	19961.4	19961.4	2.03%					20	4	18.51	TCHSHT
AAA036_6-12	12	6	6	20757.6	20757.6	1.05%					30	6	7.95	TCHSHT
AAA046_6-12	12	6	6	19289.8	19289.8	2.43%					20	4	6.20	TCHSHT
AAA056_6-12	12	6	6	20843.6	20843.6	3.03%					15	3	4.27	TCHSHT
AAA066_6-12	12	6	6	18359.8	18359.8	0.16%					20	4	1.98	TCHSHT
AAA076_6-12	12	6	6	24247.1	24247.1	1.14%					25	5	24.21	TCHSHT
AAA086_6-12	12	6	6	21350.9	21350.9	1.92%					25	5	14.40	TCHSHT
AAA096_6-12	12	6	6	24460.4	24460.4	1.96%					20	4	5.84	TCHSHT
AAA0012_6-12	12	6	12	38223.0	38223.0	0.51%					24	4	15.11	TCHSHT
AAA0112_6-12	12	6	12	40749.2	40749.2	1.60%					18	3	13.79	TCHSHT
AAA0212_6-12	12	6	12	38363.1	38363.1	0.64%					36	6	61.54	TCHSHT
AAA0312_6-12	12	6	12	40982.3	40982.3	1.02%					24	4	18.70	TCHSHT
AAA0412_6-12	12	6	12	36515.5	36515.5	0.23%					36	6	27.69	TCHSHT
AAA0512_6-12	12	6	12	42470.4	42470.4	0.72%					36	6	18.64	TCHSHT
AAA0612_6-12	12	6	12	35024.6	35024.6	0.63%					24	4	6.99	TCHSHT
AAA0712_6-12	12	6	12	47980.2	47980.2	0.85%					42	7	69.69	TCHSHT
AAA0812_6-12	12	6	12	39597.0	39597.0	0.44%					30	5	27.76	TCHSHT
AAA0912_6-12	12	6	12	44613.3	44613.3	1.03%					30	5	13.32	TCHSHT
AAA0018_6-12	12	6	18	57269.2	57269.2	0.28%					40	5	36.22	TCHSHT
AAA0118_6-12	12	6	18	62251.9	62251.9	0.21%					48	6	43.35	TCHSHT
AAA0218_6-12	12	6	18	56086.1	56086.1	0.39%					48	6	50.85	TCHSHT
AAA0318_6-12	12	6	18	58541.6	58541.6	0.70%					56	7	45.06	TCHSHT
AAA0418_6-12	12	6	18	53126.6	53126.6	0.18%					40	5	30.19	TCHSHT
AAA0518_6-12	12	6	18	63241.4	63241.4	0.26%					72	9	41.71	TCHSHT
AAA0618_6-12	12	6	18	54651.1	54651.1	0.20%					48	6	24.10	TCHSHT
AAA0718_6-12	12	6	18	69373.0	69373.0	0.57%					64	8	127.20	TCHSHT
AAA0818_6-12	12	6	18	58712.1	58712.1	0.17%					40	5	69.76	TCHSHT
AAA0918_6-12	12	6	18	66314.4	66314.4	0.92%					48	6	32.39	TCHSHT
AAA006_6-25	25	6	6	39865.4	39865.4	0.26%					25	5	16.47	TCHSHT
AAA016_6-25	25	6	6	40197.4	40197.4	0.45%					20	4	26.88	TCHSHT
AAA026_6-25	25	6	6	42110.2	42110.2	0.63%					25	5	33.36	TCHSHT
AAA036_6-25	25	6	6	41474.5	41474.5	1.10%					20	4	31.80	TCHSHT
AAA046_6-25	25	6	6	43750.1	43750.1	0.69%					15	3	17.43	TCHSHT
AAA056_6-25	25	6	6	40827.6	40827.6	0.36%					20	4	41.42	TCHSHT
AAA066_6-25	25	6	6	39468.6	39468.6	0.35%					25	5	39.91	TCHSHT
AAA076_6-25	25	6	6	43334.7	43334.7	0.94%					25	5	18.58	TCHSHT
AAA086_6-25	25	6	6	41546.2	41546.2	1.05%					25	5	55.35	TCHSHT
AAA096_6-25	25	6	6	42873.8	42873.8	0.58%					20	4	16.34	TCHSHT
AAA0012_6-25	25	6	12	77673.6	77673.6	0.29%					30	5	65.38	TCHSHT
AAA0112_6-25	25	6	12	80384.8	80384.8	0.44%					24	4	56.31	TCHSHT
AAA0212_6-25	25	6	12	80837.7	80837.7	0.37%					36	6	69.55	TCHSHT
AAA0312_6-25	25	6	12	78595.3	78595.3	0.54%					24	4	55.18	TCHSHT
AAA0412_6-25	25	6	12	81573.3	81573.3	0.23%					30	5	71.23	TCHSHT
AAA0512_6-25	25	6	12	77340.5	77340.5	0.41%					30	5	55.19	TCHSHT
AAA0612_6-25	25	6	12	75373.1	75373.1	0.61%					30	5	59.61	TCHSHT
AAA0712_6-25	25	6	12	78369.9	78369.9	0.18%					24	4	17.38	TCHSHT
AAA0812_6-25	25	6	12	76323.4	76323.4	0.71%					30	5	56.54	TCHSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0912_6-25	25	6	12	83031.2	83031.2	0.13%					36	6	66.63	TCHSHT
AAA0018_6-25	25	6	18	112404.0	112404.0	0.25%					40	5	119.10	TCHSHT
AAA0118_6-25	25	6	18	118478.0	118478.0	0.19%					48	6	120.29	TCHSHT
AAA0218_6-25	25	6	18	121027.8	121027.8	-0.04%					56	7	132.02	TCHSHT
AAA0318_6-25	25	6	18	117609.5	117609.5	0.05%					64	8	173.72	TCHSHT
AAA0418_6-25	25	6	18	121665.6	121665.6	0.25%					40	5	149.61	TCHSHT
AAA0518_6-25	25	6	18	118409.3	118409.3	0.12%					64	8	128.85	TCHSHT
AAA0618_6-25	25	6	18	109933.8	109933.8	0.26%					32	4	78.56	TCHSHT
AAA0718_6-25	25	6	18	115608.6	115608.6	0.18%					48	6	69.99	TCHSHT
AAA0818_6-25	25	6	18	110041.1	110041.1	0.24%					32	4	88.05	TCHSHT
AAA0918_6-25	25	6	18	123604.8	123604.8	0.31%					56	7	155.13	TCHSHT
AAA006_6-50	50	6	6	75047.5	75047.5	0.25%					20	4	44.32	TCHSHT
AAA016_6-50	50	6	6	77667.9	77667.9	0.42%					15	3	36.41	TCHSHT
AAA026_6-50	50	6	6	80520.0	80520.0	0.31%					20	4	61.75	TCHSHT
AAA036_6-50	50	6	6	78631.0	78631.0	0.32%					15	3	24.77	TCHSHT
AAA046_6-50	50	6	6	81279.3	81279.3	0.35%					20	4	61.23	TCHSHT
AAA056_6-50	50	6	6	81781.8	81781.8	0.21%					15	3	53.80	TCHSHT
AAA066_6-50	50	6	6	78360.5	78360.5	0.30%					15	3	37.47	TCHSHT
AAA076_6-50	50	6	6	81866.3	81866.3	0.13%					15	3	13.40	TCHSHT
AAA086_6-50	50	6	6	76860.5	76860.5	0.11%					25	5	20.58	TCHSHT
AAA096_6-50	50	6	6	78047.5	78047.5	0.20%					15	3	31.25	TCHSHT
AAA0012_6-50	50	6	12	145847.2	145847.2	0.10%					30	5	70.12	TCHSHT
AAA0112_6-50	50	6	12	148842.9	148842.9	0.03%					24	4	49.47	TCHSHT
AAA0212_6-50	50	6	12	153467.3	153467.3	0.15%					24	4	71.76	TCHSHT
AAA0312_6-50	50	6	12	152166.6	152166.6	0.28%					42	7	102.80	TCHSHT
AAA0412_6-50	50	6	12	158880.0	158880.0	0.13%					24	4	68.90	TCHSHT
AAA0512_6-50	50	6	12	156225.3	156225.3	0.02%					30	5	90.85	TCHSHT
AAA0612_6-50	50	6	12	147502.6	147502.6	0.10%					42	7	159.73	TCHSHT
AAA0712_6-50	50	6	12	156888.7	156888.7	0.14%					24	4	58.95	TCHSHT
AAA0812_6-50	50	6	12	143665.9	143665.9	0.19%					36	6	84.60	TCHSHT
AAA0912_6-50	50	6	12	151226.0	151226.0	0.23%					24	4	60.04	TCHSHT
AAA0018_6-50	50	6	18	215991.9	215991.9	0.08%					40	5	116.10	TCHSHT
AAA0118_6-50	50	6	18	218170.6	218170.6	0.15%					32	4	88.50	TCHSHT
AAA0218_6-50	50	6	18	223836.0	223836.0	0.08%					48	6	185.11	TCHSHT
AAA0318_6-50	50	6	18	226022.5	226022.5	0.23%					40	5	138.70	TCHSHT
AAA0418_6-50	50	6	18	236417.6	236417.6	0.13%					32	4	150.52	TCHSHT
AAA0518_6-50	50	6	18	225585.4	225585.4	0.05%					40	5	129.40	TCHSHT
AAA0618_6-50	50	6	18	219092.6	219092.6	-0.02%					56	7	321.03	TCHSHT
AAA0718_6-50	50	6	18	230387.2	230387.2	0.17%					48	6	137.09	TCHSHT
AAA0818_6-50	50	6	18	214622.1	214622.1	0.12%					48	6	107.46	TCHSHT
AAA0918_6-50	50	6	18	224020.8	224020.8	0.11%					48	6	154.21	TCHSHT
AAB006_2-6	6	2	6	14854.6	14854.6	1.85%					15	3	0.43	TCHSLT
AAB016_2-6	6	2	6	12161.7	12161.7	2.25%					15	3	0.48	TCHSLT
AAB026_2-6	6	2	6	16684.8	16684.8	7.25%					15	3	0.41	TCHSLT
AAB046_2-6	6	2	6	19155.2	19155.2	1.18%					15	3	0.55	TCHSLT
AAB056_2-6	6	2	6	17310.9	17310.9	0.00%					20	4	0.53	TCHSLT
AAB066_2-6	6	2	6	17565.7	17565.7	0.00%					15	3	0.36	TCHSLT
AAB076_2-6	6	2	6	18651.3	18651.3	3.59%					10	2	0.39	TCHSLT
AAB086_2-6	6	2	6	13673.4	13673.4	1.14%					10	2	0.30	TCHSLT
AAB096_2-6	6	2	6	14204.5	14204.5	0.09%					20	4	0.41	TCHSLT
AAB0012_2-6	6	2	12	25979.0	25979.0	1.54%					30	5	1.60	TCHSLT
AAB0112_2-6	6	2	12	26073.8	26073.8	4.59%					42	7	2.20	TCHSLT
AAB0212_2-6	6	2	12	28705.8	28705.8	1.61%					18	3	0.82	TCHSLT
AAB0412_2-6	6	2	12	13707174608.4	13707174714.6	100.00%					30	5	2.16	TCHSLT
AAB0512_2-6	6	2	12	34631.0	34631.0	4.10%					66	11	4.07	TCHSLT
AAB0612_2-6	6	2	12	30787.8	30787.8	0.69%					30	5	1.24	TCHSLT
AAB0712_2-6	6	2	12	28831.5	28831.5	3.03%					36	6	1.67	TCHSLT
AAB0812_2-6	6	2	12	23249.5	23249.5	1.78%					24	4	0.85	TCHSLT
AAB0912_2-6	6	2	12	29434.8	29434.8	1.42%					54	9	3.07	TCHSLT
AAB0018_2-6	6	2	18	34805.1	34805.1	0.41%					32	4	3.18	TCHSLT
AAB0118_2-6	6	2	18	35616.0	35616.0	0.36%					48	6	5.48	TCHSLT
AAB0218_2-6	6	2	18	41105.4	41105.4	0.90%					32	4	2.40	TCHSLT
AAB0418_2-6	6	2	18	39513.9	39513.9	1.05%					48	6	5.15	TCHSLT
AAB0518_2-6	6	2	18	44821.5	44821.5	1.96%					48	6	7.49	TCHSLT
AAB0618_2-6	6	2	18	42601.1	42601.1	3.28%					40	5	6.06	TCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_2-6	6	2	18	40915.5	40915.5	0.82%					40	5	3.71	TCHSLT
AAB0818_2-6	6	2	18	32781.3	32781.3	0.24%					48	6	3.58	TCHSLT
AAB0918_2-6	6	2	18	37376.7	37376.7	0.07%					56	7	5.27	TCHSLT
AAB006_2-12	12	2	6	23524.7	23524.7	1.84%					15	3	0.96	TCHSLT
AAB016_2-12	12	2	6	27010.1	27010.1	0.63%					15	3	0.86	TCHSLT
AAB026_2-12	12	2	6	28469.7	28469.7	1.14%					15	3	0.86	TCHSLT
AAB036_2-12	12	2	6	30930.5	30930.5	1.70%					15	3	1.06	TCHSLT
AAB046_2-12	12	2	6	27975.9	27975.9	4.88%					15	3	0.84	TCHSLT
AAB056_2-12	12	2	6	30755.7	30755.7	0.89%					15	3	0.65	TCHSLT
AAB066_2-12	12	2	6	27346.4	27346.4	0.01%					15	3	0.76	TCHSLT
AAB076_2-12	12	2	6	29074.3	29074.3	6.41%					15	3	0.91	TCHSLT
AAB086_2-12	12	2	6	26018.1	26018.1	1.25%					15	3	0.88	TCHSLT
AAB096_2-12	12	2	6	29231.1	29231.1	1.35%					10	2	0.62	TCHSLT
AAB0012_2-12	12	2	12	43808.0	43808.0	0.69%					30	5	3.80	TCHSLT
AAB0112_2-12	12	2	12	42981.4	42981.4	0.45%					24	4	3.04	TCHSLT
AAB0212_2-12	12	2	12	46526.9	46526.9	1.85%					42	7	6.52	TCHSLT
AAB0312_2-12	12	2	12	56583.7	56583.7	3.28%					36	6	4.04	TCHSLT
AAB0412_2-12	12	2	12	46144.7	46144.7	0.32%					30	5	2.46	TCHSLT
AAB0512_2-12	12	2	12	55227.6	55227.6	1.48%					42	7	9.14	TCHSLT
AAB0612_2-12	12	2	12	48362.8	48362.8	1.42%					24	4	3.28	TCHSLT
AAB0712_2-12	12	2	12	49160054337.0	49160054337.0	100.00%					24	4	4.70	TCHSLT
AAB0812_2-12	12	2	12	42915.6	42915.6	0.61%					30	5	5.21	TCHSLT
AAB0912_2-12	12	2	12	54184.7	54184.7	0.83%					36	6	9.41	TCHSLT
AAB0118_2-12	12	2	18	64973.3	64973.3	0.85%					40	5	24.42	TCHSLT
AAB0218_2-12	12	2	18	68117.3	68117.3	0.33%					56	7	40.41	TCHSLT
AAB0318_2-12	12	2	18	77918.3	77918.3	0.09%					48	6	30.79	TCHSLT
AAB0418_2-12	12	2	18	69639.7	69639.7	0.64%					48	6	28.97	TCHSLT
AAB0518_2-12	12	2	18	76249.6	76249.6	-0.18%					56	7	32.56	TCHSLT
AAB0618_2-12	12	2	18	69094.3	69094.3	0.48%					56	7	25.11	TCHSLT
AAB0718_2-12	12	2	18	69596.1	69596.1	0.26%					48	6	16.86	TCHSLT
AAB0818_2-12	12	2	18	67559.7	67559.7	0.71%					64	8	29.28	TCHSLT
AAB0918_2-12	12	2	18	76062.9	76062.9	0.12%					56	7	37.34	TCHSLT
AAB006_2-25	25	2	6	50829.5	50829.5	0.72%					15	3	2.04	TCHSLT
AAB016_2-25	25	2	6	50950.4	50950.4	0.27%					10	2	0.71	TCHSLT
AAB026_2-25	25	2	6	56288.6	56288.6	0.88%					15	3	2.18	TCHSLT
AAB036_2-25	25	2	6	56651.0	56651.0	1.07%					10	2	1.33	TCHSLT
AAB046_2-25	25	2	6	58505.0	58505.0	0.32%					10	2	1.24	TCHSLT
AAB056_2-25	25	2	6	60499.1	60499.1	0.52%					25	5	3.55	TCHSLT
AAB066_2-25	25	2	6	48465.9	48465.9	0.57%					20	4	2.51	TCHSLT
AAB076_2-25	25	2	6	54759.1	54759.1	0.46%					15	3	1.67	TCHSLT
AAB086_2-25	25	2	6	58942.0	58942.0	0.97%					20	4	4.55	TCHSLT
AAB096_2-25	25	2	6	65822.5	65822.5	1.61%					30	6	7.62	TCHSLT
AAB0012_2-25	25	2	12	93211.0	93211.0	1.17%					24	4	10.70	TCHSLT
AAB0112_2-25	25	2	12	97703.2	97703.2	0.62%					24	4	9.17	TCHSLT
AAB0212_2-25	25	2	12	96337.8	96337.8	1.28%					24	4	42.02	TCHSLT
AAB0312_2-25	25	2	12	100242.9	100242.9	1.63%					30	5	41.37	TCHSLT
AAB0412_2-25	25	2	12	99459.6	99459.6	1.05%					30	5	40.65	TCHSLT
AAB0512_2-25	25	2	12	111464.0	111464.0	0.48%					24	4	21.00	TCHSLT
AAB0612_2-25	25	2	12	96305.8	96305.8	2.75%					30	5	32.25	TCHSLT
AAB0712_2-25	25	2	12	98718.7	98718.7	0.64%					24	4	28.84	TCHSLT
AAB0812_2-25	25	2	12	103250.0	103250.0	0.50%					24	4	21.94	TCHSLT
AAB0912_2-25	25	2	12	109257.0	109257.0	0.82%					24	4	49.66	TCHSLT
AAB0018_2-25	25	2	18	132321.8	132321.8	0.01%					56	7	74.61	TCHSLT
AAB0118_2-25	25	2	18	135782.2	135782.2	0.07%					48	6	31.51	TCHSLT
AAB0218_2-25	25	2	18	134757.6	134757.6	0.30%					48	6	107.80	TCHSLT
AAB0318_2-25	25	2	18	147341.8	147341.8	0.12%					64	8	84.31	TCHSLT
AAB0418_2-25	25	2	18	141114.1	141114.1	0.00%					32	4	28.35	TCHSLT
AAB0518_2-25	25	2	18	154464.4	154464.4	0.04%					64	8	217.89	TCHSLT
AAB0618_2-25	25	2	18	130873.2	130873.2	0.16%					56	7	45.16	TCHSLT
AAB0718_2-25	25	2	18	146014.7	146014.7	0.09%					56	7	76.68	TCHSLT
AAB0818_2-25	25	2	18	143766.8	143766.8	0.45%					32	4	82.64	TCHSLT
AAB0918_2-25	25	2	18	155983.1	155983.1	0.15%					56	7	121.41	TCHSLT
AAB006_2-50	50	2	6	99451.1	99451.1	0.23%					25	5	7.36	TCHSLT
AAB016_2-50	50	2	6	102419.3	102419.3	0.35%					15	3	2.98	TCHSLT
AAB026_2-50	50	2	6	101616.8	101616.8	0.12%					15	3	3.21	TCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB036_2-50	50	2	6	109040.9	109040.9	0.36%					10	2	3.62	TCHSLT
AAB046_2-50	50	2	6	116352.0	116352.0	0.13%					10	2	8.34	TCHSLT
AAB056_2-50	50	2	6	114651.9	114651.9	0.55%					15	3	13.32	TCHSLT
AAB066_2-50	50	2	6	102289.0	102289.0	0.33%					20	4	5.70	TCHSLT
AAB076_2-50	50	2	6	110751.8	110751.8	0.56%					20	4	8.81	TCHSLT
AAB086_2-50	50	2	6	104843.5	104843.5	0.13%					15	3	3.34	TCHSLT
AAB096_2-50	50	2	6	111289.6	111289.6	0.20%					15	3	5.48	TCHSLT
AAB0012_2-50	50	2	12	183491.7	183491.7	0.46%					18	3	38.45	TCHSLT
AAB0112_2-50	50	2	12	189006.8	189006.8	0.16%					36	6	38.45	TCHSLT
AAB0212_2-50	50	2	12	185752.6	185752.6	0.43%					30	5	65.71	TCHSLT
AAB0312_2-50	50	2	12	195268.3	195268.3	0.25%					30	5	27.81	TCHSLT
AAB0412_2-50	50	2	12	206520.0	206520.0	0.17%					36	6	51.54	TCHSLT
AAB0512_2-50	50	2	12	203000.3	203000.3	0.44%					24	4	41.80	TCHSLT
AAB0612_2-50	50	2	12	180031.6	180031.6	0.22%					30	5	21.86	TCHSLT
AAB0712_2-50	50	2	12	196913.1	196913.1	0.18%					24	4	64.24	TCHSLT
AAB0812_2-50	50	2	12	186284.9	186284.9	0.26%					42	7	54.72	TCHSLT
AAB0912_2-50	50	2	12	200147.5	200147.5	0.29%					24	4	56.61	TCHSLT
AAB0018_2-50	50	2	18	264394.1	264394.1	0.11%					40	5	79.63	TCHSLT
AAB0118_2-50	50	2	18	272763.0	272763.0	0.10%					32	4	94.63	TCHSLT
AAB0218_2-50	50	2	18	264936.4	264936.4	0.06%					32	4	71.98	TCHSLT
AAB0318_2-50	50	2	18	285669.0	285669.0	0.13%					40	5	93.00	TCHSLT
AAB0418_2-50	50	2	18	300794.7	300794.7	0.17%					40	5	227.26	TCHSLT
AAB0518_2-50	50	2	18	292857.9	292857.9	0.28%					32	4	94.34	TCHSLT
AAB0618_2-50	50	2	18	262406.6	262406.6	0.08%					32	4	66.57	TCHSLT
AAB0718_2-50	50	2	18	279636.7	279636.7	0.08%					32	4	177.17	TCHSLT
AAB0818_2-50	50	2	18	268010.8	268010.8	0.01%					40	5	76.01	TCHSLT
AAB0918_2-50	50	2	18	290423.5	290423.5	0.15%					48	6	179.90	TCHSLT
AAB006_4-6	6	4	6	10054.8	10054.8	1.14%					15	3	0.65	TCHSLT
AAB016_4-6	6	4	6	14387.2	14387.2	5.26%					20	4	2.00	TCHSLT
AAB026_4-6	6	4	6	12910.9	12910.9	0.08%					20	4	0.87	TCHSLT
AAB036_4-6	6	4	6	14192.1	14192.1	2.41%					25	5	1.23	TCHSLT
AAB046_4-6	6	4	6	11685.6	11685.6	1.85%					15	3	2.34	TCHSLT
AAB056_4-6	6	4	6	16374.3	16374.3	0.00%					20	4	1.00	TCHSLT
AAB066_4-6	6	4	6	13232.9	13232.9	3.29%					15	3	0.74	TCHSLT
AAB076_4-6	6	4	6	14628.8	14628.8	0.00%					25	5	0.87	TCHSLT
AAB086_4-6	6	4	6	11424.1	11424.1	7.39%					15	3	0.52	TCHSLT
AAB096_4-6	6	4	6	15320.5	15320.5	1.09%					20	4	0.62	TCHSLT
AAB0012_4-6	6	4	12	18500.6	18500.6	0.35%					30	5	2.17	TCHSLT
AAB0112_4-6	6	4	12	27633.2	27633.2	2.96%					30	5	7.59	TCHSLT
AAB0212_4-6	6	4	12	24913.2	24913.2	0.88%					36	6	5.49	TCHSLT
AAB0312_4-6	6	4	12	28050.9	28050.9	2.33%					30	5	2.50	TCHSLT
AAB0412_4-6	6	4	12	26044.6	26044.6	0.74%					48	8	27.44	TCHSLT
AAB0512_4-6	6	4	12	31945.6	31945.6	0.47%					24	4	2.66	TCHSLT
AAB0612_4-6	6	4	12	23228.1	23228.1	2.09%					18	3	1.15	TCHSLT
AAB0712_4-6	6	4	12	26369.9	26369.9	3.19%					24	4	12.02	TCHSLT
AAB0812_4-6	6	4	12	23350.2	23350.2	0.67%					30	5	3.52	TCHSLT
AAB0912_4-6	6	4	12	27874.3	27874.3	1.88%					24	4	1.56	TCHSLT
AAB0018_4-6	6	4	18	28425.8	28425.8	0.16%					40	5	4.99	TCHSLT
AAB0118_4-6	6	4	18	36109.4	36109.4	0.56%					48	6	23.08	TCHSLT
AAB0218_4-6	6	4	18	36092.4	36092.4	1.51%					40	5	21.86	TCHSLT
AAB0318_4-6	6	4	18	41395.9	41395.9	0.03%					64	8	31.78	TCHSLT
AAB0418_4-6	6	4	18	38000.2	38000.2	2.01%					48	6	19.39	TCHSLT
AAB0518_4-6	6	4	18	45051.5	45051.5	0.34%					40	5	5.98	TCHSLT
AAB0618_4-6	6	4	18	36264.8	36264.8	0.15%					48	6	8.94	TCHSLT
AAB0718_4-6	6	4	18	39031.3	39031.3	0.50%					48	6	14.91	TCHSLT
AAB0818_4-6	6	4	18	29298.5	29298.5	0.56%					32	4	14.55	TCHSLT
AAB0918_4-6	6	4	18	39566.2	39566.2	0.39%					40	5	4.99	TCHSLT
AAB006_4-12	12	4	6	21186.6	21186.6	0.33%					20	4	1.90	TCHSLT
AAB016_4-12	12	4	6	25675.6	25675.6	2.95%					15	3	6.31	TCHSLT
AAB026_4-12	12	4	6	19327.8	19327.8	0.12%					15	3	1.10	TCHSLT
AAB036_4-12	12	4	6	21809.4	21809.4	0.37%					25	5	7.10	TCHSLT
AAB046_4-12	12	4	6	24757.7	24757.7	3.13%					25	5	3.41	TCHSLT
AAB056_4-12	12	4	6	25752.1	25752.1	1.29%					20	4	1.66	TCHSLT
AAB066_4-12	12	4	6	22809.4	22809.4	3.05%					25	5	2.65	TCHSLT
AAB076_4-12	12	4	6	23886.4	23886.4	5.19%					20	4	20.72	TCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB086_4-12	12	4	6	23513.0	23513.0	0.70%					20	4	2.60	TCHSLT
AAB096_4-12	12	4	6	23843.4	23843.4	1.46%					40	8	22.45	TCHSLT
AAB0012_4-12	12	4	12	37799.3	37799.3	0.97%					24	4	22.55	TCHSLT
AAB0112_4-12	12	4	12	44839.1	44839.1	1.88%					30	5	40.71	TCHSLT
AAB0212_4-12	12	4	12	38143.0	38143.0	0.20%					18	3	11.61	TCHSLT
AAB0312_4-12	12	4	12	43293.2	43293.2	1.76%					30	5	21.26	TCHSLT
AAB0412_4-12	12	4	12	44116.4	44116.4	0.76%					30	5	11.50	TCHSLT
AAB0512_4-12	12	4	12	48393.8	48393.8	0.94%					36	6	25.92	TCHSLT
AAB0612_4-12	12	4	12	41568.5	41568.5	0.62%					30	5	11.47	TCHSLT
AAB0712_4-12	12	4	12	46183.7	46183.7	0.48%					42	7	52.82	TCHSLT
AAB0812_4-12	12	4	12	42862.1	42862.1	0.19%					24	4	14.35	TCHSLT
AAB0912_4-12	12	4	12	47253.0	47253.0	1.15%					42	7	60.18	TCHSLT
AAB0018_4-12	12	4	18	56103.1	56103.1	0.51%					48	6	57.55	TCHSLT
AAB0118_4-12	12	4	18	63293.0	63293.0	0.40%					56	7	98.04	TCHSLT
AAB0218_4-12	12	4	18	54781.2	54781.2	0.14%					40	5	17.38	TCHSLT
AAB0318_4-12	12	4	18	64897.1	64897.1	-0.03%					56	7	77.67	TCHSLT
AAB0418_4-12	12	4	18	65552.3	65552.3	0.24%					56	7	63.78	TCHSLT
AAB0518_4-12	12	4	18	69872.5	69872.5	0.99%					40	5	53.29	TCHSLT
AAB0618_4-12	12	4	18	61669.9	61669.9	0.53%					48	6	24.88	TCHSLT
AAB0718_4-12	12	4	18	70409.1	70409.1	0.93%					64	8	173.18	TCHSLT
AAB0818_4-12	12	4	18	64900.1	64900.1	0.40%					48	6	36.61	TCHSLT
AAB0918_4-12	12	4	18	66028.9	66028.9	0.61%					40	5	60.15	TCHSLT
AAB006_4-25	25	4	6	39052.7	39052.7	0.27%					25	5	23.08	TCHSLT
AAB016_4-25	25	4	6	47847.9	47847.9	0.33%					20	4	13.55	TCHSLT
AAB026_4-25	25	4	6	45842.1	45842.1	0.73%					20	4	23.91	TCHSLT
AAB036_4-25	25	4	6	45944.8	45944.8	1.71%					20	4	14.48	TCHSLT
AAB046_4-25	25	4	6	46147.6	46147.6	0.69%					15	3	17.37	TCHSLT
AAB056_4-25	25	4	6	50169.2	50169.2	0.48%					20	4	25.36	TCHSLT
AAB066_4-25	25	4	6	40055.2	40055.2	1.77%					15	3	6.20	TCHSLT
AAB076_4-25	25	4	6	45670.8	45670.8	0.49%					25	5	20.65	TCHSLT
AAB086_4-25	25	4	6	41841.1	41841.1	0.32%					30	6	18.55	TCHSLT
AAB096_4-25	25	4	6	47515.8	47515.8	0.33%					15	3	3.49	TCHSLT
AAB0012_4-25	25	4	12	77138.9	77138.9	0.02%					30	5	61.64	TCHSLT
AAB0112_4-25	25	4	12	86557.0	86557.0	0.37%					30	5	85.29	TCHSLT
AAB0212_4-25	25	4	12	83060.3	83060.3	0.55%					30	5	89.48	TCHSLT
AAB0312_4-25	25	4	12	86048.1	86048.1	1.04%					24	4	72.85	TCHSLT
AAB0412_4-25	25	4	12	86782.3	86782.3	0.43%					30	5	65.24	TCHSLT
AAB0512_4-25	25	4	12	90355.9	90355.9	0.46%					24	4	47.50	TCHSLT
AAB0612_4-25	25	4	12	76189.5	76189.5	0.55%					42	7	75.56	TCHSLT
AAB0712_4-25	25	4	12	85995.0	85995.0	0.20%					36	6	75.77	TCHSLT
AAB0812_4-25	25	4	12	80987.2	80987.2	0.26%					42	7	83.23	TCHSLT
AAB0912_4-25	25	4	12	86828.2	86828.2	0.83%					24	4	47.84	TCHSLT
AAB0018_4-25	25	4	18	111598.8	111598.8	0.22%					48	6	103.04	TCHSLT
AAB0118_4-25	25	4	18	125192.7	125192.7	0.13%					40	5	169.11	TCHSLT
AAB0218_4-25	25	4	18	121583.1	121583.1	0.23%					40	5	231.97	TCHSLT
AAB0318_4-25	25	4	18	125105.2	125105.2	0.34%					48	6	158.13	TCHSLT
AAB0418_4-25	25	4	18	127190.1	127190.1	0.18%					40	5	105.35	TCHSLT
AAB0518_4-25	25	4	18	129633.1	129633.1	0.25%					40	5	118.05	TCHSLT
AAB0618_4-25	25	4	18	112289.2	112289.2	0.01%					40	5	73.65	TCHSLT
AAB0718_4-25	25	4	18	125422.4	125422.4	0.40%					40	5	131.49	TCHSLT
AAB0818_4-25	25	4	18	114974.7	114974.7	0.09%					72	9	221.89	TCHSLT
AAB0918_4-25	25	4	18	127062.3	127062.3	0.19%					40	5	83.10	TCHSLT
AAB006_4-50	50	4	6	83812.1	83812.1	0.16%					20	4	39.63	TCHSLT
AAB016_4-50	50	4	6	87421.0	87421.0	-0.02%					20	4	31.59	TCHSLT
AAB026_4-50	50	4	6	89450.3	89450.3	0.23%					15	3	40.49	TCHSLT
AAB036_4-50	50	4	6	90467.5	90467.5	0.49%					20	4	25.17	TCHSLT
AAB046_4-50	50	4	6	98196.2	98196.2	0.48%					15	3	29.57	TCHSLT
AAB056_4-50	50	4	6	92676.1	92676.1	0.45%					15	3	17.05	TCHSLT
AAB066_4-50	50	4	6	81576.3	81576.3	0.26%					25	5	18.06	TCHSLT
AAB076_4-50	50	4	6	86199.7	86199.7	0.48%					25	5	41.86	TCHSLT
AAB086_4-50	50	4	6	86204.9	86204.9	0.31%					15	3	25.64	TCHSLT
AAB096_4-50	50	4	6	96492.3	96492.3	0.06%					15	3	9.07	TCHSLT
AAB0012_4-50	50	4	12	163205.0	163205.0	0.13%					30	5	84.87	TCHSLT
AAB0112_4-50	50	4	12	160147.7	160147.7	0.27%					30	5	110.36	TCHSLT
AAB0212_4-50	50	4	12	162008.0	162008.0	0.21%					36	6	150.42	TCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0312_4-50	50	4	12	169771.9	169771.9	0.31%					30	5	127.80	TCHSLT
AAB0412_4-50	50	4	12	176104.6	176104.6	0.43%					30	5	118.61	TCHSLT
AAB0512_4-50	50	4	12	169227.6	169227.6	0.32%					30	5	94.48	TCHSLT
AAB0612_4-50	50	4	12	152270.3	152270.3	0.17%					24	4	51.71	TCHSLT
AAB0712_4-50	50	4	12	165740.8	165740.8	0.05%					30	5	115.34	TCHSLT
AAB0812_4-50	50	4	12	160940.6	160940.6	0.51%					30	5	112.77	TCHSLT
AAB0912_4-50	50	4	12	174410.1	174410.1	-0.01%					36	6	82.52	TCHSLT
AAB0018_4-50	50	4	18	232008.1	232008.1	0.14%					56	7	239.09	TCHSLT
AAB0118_4-50	50	4	18	235602.2	235602.2	0.17%					40	5	178.64	TCHSLT
AAB0218_4-50	50	4	18	243101.2	243101.2	0.07%					40	5	199.75	TCHSLT
AAB0318_4-50	50	4	18	246958.0	246958.0	0.01%					48	6	197.37	TCHSLT
AAB0418_4-50	50	4	18	257253.2	257253.2	-0.10%					40	5	177.95	TCHSLT
AAB0518_4-50	50	4	18	248336.1	248336.1	-0.06%					48	6	190.88	TCHSLT
AAB0618_4-50	50	4	18	226012.9	226012.9	0.07%					40	5	101.52	TCHSLT
AAB0718_4-50	50	4	18	245592.5	245592.5	-0.11%					80	10	453.31	TCHSLT
AAB0818_4-50	50	4	18	231296.6	231296.6	0.27%					56	7	257.59	TCHSLT
AAB0918_4-50	50	4	18	254464.5	254464.5	0.13%					48	6	141.40	TCHSLT
AAB006_6-6	6	6	6	10290.5	10290.5	0.00%					20	4	2.24	TCHSLT
AAB026_6-6	6	6	6	13416.5	13416.5	0.00%					30	6	1.77	TCHSLT
AAB036_6-6	6	6	6	15103.7	15103.7	1.54%					30	6	2.36	TCHSLT
AAB046_6-6	6	6	6	15161.3	15161.3	2.65%					25	5	1.50	TCHSLT
AAB056_6-6	6	6	6	18511.4	18511.4	2.32%					20	4	1.73	TCHSLT
AAB066_6-6	6	6	6	12642.8	12642.8	2.11%					25	5	3.66	TCHSLT
AAB076_6-6	6	6	6	16788.3	16788.3	0.99%					25	5	1.85	TCHSLT
AAB086_6-6	6	6	6	16616.2	16616.2	1.79%					20	4	1.85	TCHSLT
AAB096_6-6	6	6	6	19352.1	19352.1	7.30%					25	5	4.61	TCHSLT
AAB0012_6-6	6	6	12	21502.2	21502.2	1.30%					42	7	5.62	TCHSLT
AAB0212_6-6	6	6	12	26161.9	26161.9	0.22%					30	5	4.10	TCHSLT
AAB0312_6-6	6	6	12	29225.0	29225.0	0.71%					24	4	5.11	TCHSLT
AAB0412_6-6	6	6	12	29337.8	29337.8	0.50%					30	5	8.15	TCHSLT
AAB0512_6-6	6	6	12	31903.9	31903.9	1.01%					48	8	8.34	TCHSLT
AAB0612_6-6	6	6	12	25965.4	25965.4	1.48%					30	5	18.02	TCHSLT
AAB0712_6-6	6	6	12	30880.9	30880.9	0.79%					36	6	12.50	TCHSLT
AAB0812_6-6	6	6	12	30371.3	30371.3	1.34%					30	5	11.88	TCHSLT
AAB0912_6-6	6	6	12	34230.8	34230.8	0.86%					78	13	34.89	TCHSLT
AAB0018_6-6	6	6	18	31418.7	31418.7	0.69%					48	6	19.10	TCHSLT
AAB0218_6-6	6	6	18	35173.9	35173.9	0.13%					48	6	17.28	TCHSLT
AAB0318_6-6	6	6	18	41179.6	41179.6	0.28%					64	8	22.60	TCHSLT
AAB0418_6-6	6	6	18	43058.4	43058.4	0.24%					56	7	37.63	TCHSLT
AAB0518_6-6	6	6	18	48617.7	48617.7	0.64%					48	6	52.32	TCHSLT
AAB0618_6-6	6	6	18	36339.0	36339.0	0.97%					80	10	20.26	TCHSLT
AAB0718_6-6	6	6	18	45553.5	45553.5	0.52%					40	5	20.81	TCHSLT
AAB0818_6-6	6	6	18	47487.6	47487.6	0.28%					64	8	73.02	TCHSLT
AAB0918_6-6	6	6	18	51546.1	51546.1	0.69%					64	8	55.24	TCHSLT
AAB006_6-12	12	6	6	21478.6	21478.6	1.15%					25	5	4.68	TCHSLT
AAB016_6-12	12	6	6	22360.7	22360.7	1.21%					25	5	10.89	TCHSLT
AAB026_6-12	12	6	6	21230.6	21230.6	0.80%					20	4	6.91	TCHSLT
AAB036_6-12	12	6	6	21961.5	21961.5	1.46%					20	4	3.72	TCHSLT
AAB046_6-12	12	6	6	20172.4	20172.4	2.45%					20	4	13.31	TCHSLT
AAB056_6-12	12	6	6	21893.1	21893.1	2.57%					20	4	9.65	TCHSLT
AAB066_6-12	12	6	6	19216.1	19216.1	1.85%					15	3	2.06	TCHSLT
AAB076_6-12	12	6	6	25873.8	25873.8	2.35%					25	5	9.02	TCHSLT
AAB086_6-12	12	6	6	22637.6	22637.6	2.49%					20	4	19.81	TCHSLT
AAB096_6-12	12	6	6	25505.0	25505.0	0.75%					25	5	17.36	TCHSLT
AAB0012_6-12	12	6	12	39625.9	39625.9	0.96%					30	5	24.79	TCHSLT
AAB0112_6-12	12	6	12	41962.9	41962.9	0.60%					30	5	12.40	TCHSLT
AAB0212_6-12	12	6	12	40514.1	40514.1	0.21%					42	7	64.71	TCHSLT
AAB0312_6-12	12	6	12	43414.6	43414.6	0.76%					24	4	30.65	TCHSLT
AAB0412_6-12	12	6	12	38075.4	38075.4	0.07%					24	4	35.25	TCHSLT
AAB0512_6-12	12	6	12	44453.5	44453.5	0.84%					36	6	21.33	TCHSLT
AAB0612_6-12	12	6	12	36747.2	36747.2	1.93%					36	6	16.33	TCHSLT
AAB0712_6-12	12	6	12	51743.2	51743.2	1.41%					30	5	61.73	TCHSLT
AAB0812_6-12	12	6	12	42708.1	42708.1	0.92%					36	6	51.80	TCHSLT
AAB0912_6-12	12	6	12	46477.2	46477.2	1.33%					36	6	36.72	TCHSLT
AAB0018_6-12	12	6	18	59250.8	59250.8	0.06%					48	6	39.36	TCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0118_6-12	12	6	18	64598.4	64598.4	0.57%					40	5	48.93	TCHSLT
AAB0218_6-12	12	6	18	59409.7	59409.7	0.41%					48	6	84.75	TCHSLT
AAB0318_6-12	12	6	18	60667.4	60667.4	-0.06%					48	6	83.32	TCHSLT
AAB0418_6-12	12	6	18	54660.1	54660.1	0.16%					40	5	42.31	TCHSLT
AAB0518_6-12	12	6	18	66955.1	66955.1	0.74%					40	5	56.34	TCHSLT
AAB0618_6-12	12	6	18	56625.2	56625.2	0.04%					48	6	32.95	TCHSLT
AAB0718_6-12	12	6	18	73457.8	73457.8	0.20%					56	7	133.89	TCHSLT
AAB0818_6-12	12	6	18	62437.1	62437.1	0.84%					40	5	74.08	TCHSLT
AAB0918_6-12	12	6	18	68014.8	68014.8	0.34%					48	6	49.67	TCHSLT
AAB006_6-25	25	6	6	42329.1	42329.1	1.07%					15	3	34.49	TCHSLT
AAB016_6-25	25	6	6	41702.0	41702.0	0.80%					20	4	44.25	TCHSLT
AAB026_6-25	25	6	6	44012.5	44012.5	1.12%					35	7	79.82	TCHSLT
AAB036_6-25	25	6	6	43153.8	43153.8	1.50%					20	4	35.50	TCHSLT
AAB046_6-25	25	6	6	45806.3	45806.3	0.96%					30	6	77.53	TCHSLT
AAB056_6-25	25	6	6	42256.7	42256.7	0.74%					20	4	26.60	TCHSLT
AAB066_6-25	25	6	6	41214.8	41214.8	0.96%					20	4	46.96	TCHSLT
AAB076_6-25	25	6	6	44818.6	44818.6	1.37%					30	6	43.15	TCHSLT
AAB086_6-25	25	6	6	43644.1	43644.1	0.73%					20	4	38.16	TCHSLT
AAB096_6-25	25	6	6	44666.1	44666.1	1.55%					15	3	34.96	TCHSLT
AAB0012_6-25	25	6	12	79993.7	79993.7	0.70%					36	6	82.80	TCHSLT
AAB0112_6-25	25	6	12	82870.6	82870.6	0.38%					30	5	92.75	TCHSLT
AAB0212_6-25	25	6	12	83680.6	83680.6	1.19%					24	4	96.10	TCHSLT
AAB0312_6-25	25	6	12	81745.9	81745.9	1.20%					24	4	55.16	TCHSLT
AAB0412_6-25	25	6	12	84909.6	84909.6	0.56%					48	8	184.11	TCHSLT
AAB0512_6-25	25	6	12	79527.4	79527.4	0.51%					30	5	63.18	TCHSLT
AAB0612_6-25	25	6	12	77469.2	77469.2	0.81%					30	5	81.82	TCHSLT
AAB0712_6-25	25	6	12	79909.1	79909.1	0.45%					24	4	38.17	TCHSLT
AAB0812_6-25	25	6	12	79285.4	79285.4	0.42%					30	5	74.54	TCHSLT
AAB0912_6-25	25	6	12	86277.6	86277.6	1.17%					42	7	97.66	TCHSLT
AAB0018_6-25	25	6	18	116688.7	116688.7	1.00%					32	4	156.90	TCHSLT
AAB0118_6-25	25	6	18	121289.9	121289.9	0.64%					40	5	136.46	TCHSLT
AAB0218_6-25	25	6	18	124449.2	124449.2	0.32%					56	7	224.35	TCHSLT
AAB0318_6-25	25	6	18	120767.7	120767.7	0.14%					48	6	310.16	TCHSLT
AAB0418_6-25	25	6	18	125656.7	125656.7	-0.39%					56	7	350.43	TCHSLT
AAB0518_6-25	25	6	18	120926.5	120926.5	0.26%					64	8	172.48	TCHSLT
AAB0618_6-25	25	6	18	112857.3	112857.3	0.32%					72	9	273.01	TCHSLT
AAB0718_6-25	25	6	18	118419.1	118419.1	0.50%					32	4	96.07	TCHSLT
AAB0818_6-25	25	6	18	113899.8	113899.8	0.43%					56	7	171.14	TCHSLT
AAB0918_6-25	25	6	18	126830.5	126830.5	0.42%					56	7	206.82	TCHSLT
AAB006_6-50	50	6	6	77114.5	77114.5	0.54%					40	8	127.43	TCHSLT
AAB016_6-50	50	6	6	80408.9	80408.9	0.28%					15	3	33.29	TCHSLT
AAB026_6-50	50	6	6	83381.6	83381.6	0.29%					15	3	46.19	TCHSLT
AAB036_6-50	50	6	6	81012.5	81012.5	0.61%					20	4	59.04	TCHSLT
AAB046_6-50	50	6	6	84232.0	84232.0	0.31%					20	4	59.61	TCHSLT
AAB056_6-50	50	6	6	84909.9	84909.9	0.50%					25	5	106.72	TCHSLT
AAB066_6-50	50	6	6	81037.4	81037.4	0.10%					20	4	64.97	TCHSLT
AAB076_6-50	50	6	6	83550.9	83550.9	0.34%					20	4	59.10	TCHSLT
AAB086_6-50	50	6	6	79906.4	79906.4	0.40%					15	3	48.70	TCHSLT
AAB096_6-50	50	6	6	80650.7	80650.7	0.14%					30	6	78.66	TCHSLT
AAB0012_6-50	50	6	12	149323.7	149323.7	0.43%					24	4	93.95	TCHSLT
AAB0112_6-50	50	6	12	151583.1	151583.1	0.26%					48	8	156.65	TCHSLT
AAB0212_6-50	50	6	12	157649.5	157649.5	0.54%					36	6	189.16	TCHSLT
AAB0312_6-50	50	6	12	155159.5	155159.5	0.28%					24	4	94.94	TCHSLT
AAB0412_6-50	50	6	12	162882.8	162882.8	0.30%					36	6	161.15	TCHSLT
AAB0512_6-50	50	6	12	161174.5	161174.5	0.21%					42	7	194.22	TCHSLT
AAB0612_6-50	50	6	12	152396.7	152396.7	0.37%					24	4	149.80	TCHSLT
AAB0712_6-50	50	6	12	159229.2	159229.2	0.44%					42	7	122.72	TCHSLT
AAB0812_6-50	50	6	12	146991.0	146991.0	0.59%					24	4	92.21	TCHSLT
AAB0912_6-50	50	6	12	154438.6	154438.6	0.13%					30	5	131.98	TCHSLT
AAB0018_6-50	50	6	18	218936.3	218936.3	-0.05%					40	5	202.36	TCHSLT
AAB0118_6-50	50	6	18	222104.9	222104.9	-0.03%					64	8	304.02	TCHSLT
AAB0218_6-50	50	6	18	228043.8	228043.8	-0.19%					72	9	439.40	TCHSLT
AAB0318_6-50	50	6	18	228976.1	228976.1	-0.23%					64	8	424.00	TCHSLT
AAB0418_6-50	50	6	18	241300.6	241300.6	-0.02%					40	5	345.63	TCHSLT
AAB0518_6-50	50	6	18	230794.6	230794.6	0.15%					40	5	213.97	TCHSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0618_6-50	50	6	18	224771.5	224771.5	0.01%					40	5	359.31	TCHSLT
AAB0718_6-50	50	6	18	232366.4	232366.4	-0.04%					56	7	279.69	TCHSLT
AAB0818_6-50	50	6	18	218796.4	218796.4	0.13%					40	5	213.56	TCHSLT
AAB0918_6-50	50	6	18	227392.4	227392.4	-0.05%					56	7	344.32	TCHSLT
ABA006_2-6	6	2	6	8174.3	8174.3	0.00%					15	3	0.49	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%					25	5	0.48	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%					10	2	0.25	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%					20	4	0.34	TCLSHT
ABA046_2-6	6	2	6	7965.2	7965.2	0.60%					10	2	0.33	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%					15	3	0.21	TCLSHT
ABA066_2-6	6	2	6	8097.5	8097.5	0.54%					10	2	0.26	TCLSHT
ABA076_2-6	6	2	6	9148.9	9148.9	0.21%					15	3	0.42	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%					10	2	0.20	TCLSHT
ABA096_2-6	6	2	6	7104.4	7104.4	0.00%					15	3	0.18	TCLSHT
ABA0012_2-6	6	2	12	15609.4	15609.4	0.07%					24	4	1.55	TCLSHT
ABA0112_2-6	6	2	12	13427.4	13427.4	0.06%					18	3	0.69	TCLSHT
ABA0212_2-6	6	2	12	14728.6	14728.6	0.03%					24	4	1.33	TCLSHT
ABA0412_2-6	6	2	12	13847.7	13847.7	0.11%					42	7	2.64	TCLSHT
ABA0512_2-6	6	2	12	17446.8	17446.8	0.27%					12	2	0.46	TCLSHT
ABA0612_2-6	6	2	12	14950.6	14950.6	0.04%					18	3	0.62	TCLSHT
ABA0712_2-6	6	2	12	16644.6	16644.6	0.16%					18	3	0.74	TCLSHT
ABA0812_2-6	6	2	12	14162.9	14162.9	0.03%					18	3	0.62	TCLSHT
ABA0912_2-6	6	2	12	16127.2	16127.2	0.02%					18	3	0.50	TCLSHT
ABA0018_2-6	6	2	18	21843.9	21843.9	0.15%					24	3	5.55	TCLSHT
ABA0118_2-6	6	2	18	156550021892.2	156550022560.4	100.00%					8	1	0.56	TCLSHT
ABA0218_2-6	6	2	18	22480.4	22480.4	0.05%					32	4	2.41	TCLSHT
ABA0418_2-6	6	2	18	20189.9	20189.9	0.07%					40	5	4.04	TCLSHT
ABA0518_2-6	6	2	18	25070.3	25070.3	0.06%					24	3	1.59	TCLSHT
ABA0618_2-6	6	2	18	22830.4	22830.4	0.11%					32	4	2.39	TCLSHT
ABA0718_2-6	6	2	18	24384.9	24384.9	0.04%					32	4	3.60	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%					40	5	2.69	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%					24	3	1.04	TCLSHT
ABA006_2-12	12	2	6	12675.3	12675.3	0.00%					15	3	0.36	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%					15	3	0.52	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%					10	2	0.32	TCLSHT
ABA036_2-12	12	2	6	16340.9	16340.9	0.00%					20	4	0.52	TCLSHT
ABA046_2-12	12	2	6	14200.4	14200.4	0.00%					10	2	0.30	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%					10	2	0.42	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%					10	2	0.29	TCLSHT
ABA076_2-12	12	2	6	15411.5	15411.5	0.05%					10	2	0.24	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%					10	2	0.42	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%					10	2	0.50	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%					18	3	0.76	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%					24	4	1.48	TCLSHT
ABA0212_2-12	12	2	12	27213.7	27213.7	0.09%					18	3	1.76	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%					30	5	1.58	TCLSHT
ABA0412_2-12	12	2	12	28351.5	28351.5	0.14%					24	4	1.93	TCLSHT
ABA0512_2-12	12	2	12	32083.1	32083.1	0.01%					18	3	0.98	TCLSHT
ABA0612_2-12	12	2	12	27236.8	27236.8	0.00%					18	3	0.90	TCLSHT
ABA0712_2-12	12	2	12	30400.7	30400.7	0.05%					18	3	1.24	TCLSHT
ABA0812_2-12	12	2	12	26691.1	26691.1	0.06%					18	3	1.08	TCLSHT
ABA0912_2-12	12	2	12	31075.1	31075.1	0.00%					30	5	4.57	TCLSHT
ABA0118_2-12	12	2	18	40447.3	40447.3	0.00%					32	4	3.67	TCLSHT
ABA0218_2-12	12	2	18	41722.8	41722.8	0.02%					24	3	7.99	TCLSHT
ABA0318_2-12	12	2	18	46264.4	46264.4	0.02%					32	4	5.18	TCLSHT
ABA0418_2-12	12	2	18	44169.3	44169.3	0.00%					24	3	2.46	TCLSHT
ABA0518_2-12	12	2	18	47324.8	47324.8	0.01%					32	4	3.86	TCLSHT
ABA0618_2-12	12	2	18	40625.1	40625.1	0.00%					24	3	2.18	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%					24	3	1.95	TCLSHT
ABA0818_2-12	12	2	18	41316.5	41316.5	0.00%					32	4	3.62	TCLSHT
ABA0918_2-12	12	2	18	47351.4	47351.4	-0.04%					32	4	17.95	TCLSHT
ABA006_2-25	25	2	6	29198.3	29198.3	0.02%					15	3	0.57	TCLSHT
ABA016_2-25	25	2	6	29917.1	29917.1	0.09%					15	3	0.94	TCLSHT
ABA026_2-25	25	2	6	28576.6	28576.6	0.00%					20	4	1.27	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%					15	3	0.76	TCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA046_2-25	25	2	6	31420.9	31420.9	0.03%					20	4	1.66	TCLSHT
ABA056_2-25	25	2	6	31510.0	31510.0	0.00%					10	2	0.84	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%					10	2	0.28	TCLSHT
ABA076_2-25	25	2	6	31327.3	31327.3	0.03%					10	2	0.64	TCLSHT
ABA086_2-25	25	2	6	32150.3	32150.3	0.00%					30	6	3.48	TCLSHT
ABA096_2-25	25	2	6	33239.4	33239.4	0.06%					10	2	0.88	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%					12	2	1.18	TCLSHT
ABA0112_2-25	25	2	12	60933.5	60933.5	0.01%					18	3	2.82	TCLSHT
ABA0212_2-25	25	2	12	56248.7	56248.7	0.03%					24	4	2.87	TCLSHT
ABA0312_2-25	25	2	12	59208.1	59208.1	0.03%					24	4	4.63	TCLSHT
ABA0412_2-25	25	2	12	59680.6	59680.6	0.01%					18	3	2.53	TCLSHT
ABA0512_2-25	25	2	12	65037.1	65037.1	0.03%					24	4	7.19	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%					12	2	0.67	TCLSHT
ABA0712_2-25	25	2	12	62791.7	62791.7	0.04%					18	3	3.41	TCLSHT
ABA0812_2-25	25	2	12	62881.1	62881.1	0.02%					36	6	20.09	TCLSHT
ABA0912_2-25	25	2	12	63990.8	63990.8	0.02%					18	3	3.47	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%					16	2	1.28	TCLSHT
ABA0118_2-25	25	2	18	88583.6	88583.6	0.00%					40	5	9.61	TCLSHT
ABA0218_2-25	25	2	18	83280.0	83280.0	0.02%					48	6	12.65	TCLSHT
ABA0318_2-25	25	2	18	91360.6	91360.6	0.00%					32	4	10.67	TCLSHT
ABA0418_2-25	25	2	18	90599.0	90599.0	0.01%					16	2	4.65	TCLSHT
ABA0518_2-25	25	2	18	95120.4	95120.4	0.00%					40	5	47.27	TCLSHT
ABA0618_2-25	25	2	18	83556.7	83556.7	0.02%					24	3	2.26	TCLSHT
ABA0718_2-25	25	2	18	92164.6	92164.6	0.00%					24	3	9.27	TCLSHT
ABA0818_2-25	25	2	18	91537.3	91537.3	0.01%					40	5	45.50	TCLSHT
ABA0918_2-25	25	2	18	93150.7	93150.7	0.01%					40	5	14.23	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%					10	2	0.82	TCLSHT
ABA016_2-50	50	2	6	60308.0	60308.0	0.01%					10	2	0.80	TCLSHT
ABA026_2-50	50	2	6	56150.4	56150.4	0.02%					15	3	2.21	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%					10	2	1.05	TCLSHT
ABA046_2-50	50	2	6	60900.4	60900.4	0.03%					15	3	2.37	TCLSHT
ABA056_2-50	50	2	6	59362.1	59362.1	0.03%					15	3	1.63	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%					10	2	1.19	TCLSHT
ABA076_2-50	50	2	6	58961.9	58961.9	0.01%					10	2	1.39	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%					10	2	1.15	TCLSHT
ABA096_2-50	50	2	6	60666.9	60666.9	0.00%					15	3	1.25	TCLSHT
ABA0012_2-50	50	2	12	117314.5	117314.5	0.00%					12	2	1.61	TCLSHT
ABA0112_2-50	50	2	12	119909.5	119909.5	0.02%					24	4	5.41	TCLSHT
ABA0212_2-50	50	2	12	114060.9	114060.9	0.00%					24	4	6.94	TCLSHT
ABA0312_2-50	50	2	12	119935.6	119935.6	0.00%					18	3	4.49	TCLSHT
ABA0412_2-50	50	2	12	122243.7	122243.7	0.01%					18	3	10.79	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%					18	3	2.24	TCLSHT
ABA0612_2-50	50	2	12	113649.2	113649.2	0.01%					12	2	1.63	TCLSHT
ABA0712_2-50	50	2	12	114728.5	114728.5	0.01%					18	3	11.80	TCLSHT
ABA0812_2-50	50	2	12	115427.6	115427.6	0.01%					12	2	3.74	TCLSHT
ABA0912_2-50	50	2	12	122430.5	122430.5	0.01%					18	3	4.88	TCLSHT
ABA0018_2-50	50	2	18	175781.2	175781.2	0.00%					16	2	3.35	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%					16	2	2.84	TCLSHT
ABA0218_2-50	50	2	18	169735.9	169735.9	0.00%					24	3	8.28	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%					24	3	5.91	TCLSHT
ABA0418_2-50	50	2	18	182071.9	182071.9	0.04%					32	4	101.74	TCLSHT
ABA0518_2-50	50	2	18	181079.7	181079.7	0.00%					24	3	8.90	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%					24	3	5.62	TCLSHT
ABA0718_2-50	50	2	18	172462.2	172462.2	0.00%					24	3	7.35	TCLSHT
ABA0818_2-50	50	2	18	173619.2	173619.2	0.01%					24	3	9.34	TCLSHT
ABA0918_2-50	50	2	18	182991.0	182991.0	0.00%					16	2	12.63	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%					15	3	0.52	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%					30	6	2.02	TCLSHT
ABA026_4-6	6	4	6	7336.3	7336.3	0.03%					15	3	0.43	TCLSHT
ABA036_4-6	6	4	6	6706.7	6706.7	0.10%					15	3	0.54	TCLSHT
ABA046_4-6	6	4	6	5553.5	5553.5	0.00%					15	3	0.55	TCLSHT
ABA056_4-6	6	4	6	7986.3	7986.3	0.98%					15	3	1.39	TCLSHT
ABA066_4-6	6	4	6	6384.9	6384.9	0.28%					15	3	0.52	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%					10	2	0.23	TCLSHT
ABA086_4-6	6	4	6	5863.1	5863.1	0.07%					20	4	0.56	TCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA096_4-6	6	4	6	8598.5	8598.5	0.54%					15	3	0.55	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%					18	3	0.71	TCLSHT
ABA0112_4-6	6	4	12	15288.2	15288.2	0.13%					30	5	3.24	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%					24	4	2.24	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%					18	3	1.18	TCLSHT
ABA0412_4-6	6	4	12	12905.8	12905.8	0.32%					30	5	9.53	TCLSHT
ABA0512_4-6	6	4	12	15837.1	15837.1	0.13%					30	5	6.03	TCLSHT
ABA0612_4-6	6	4	12	12780.3	12780.3	0.28%					18	3	0.87	TCLSHT
ABA0712_4-6	6	4	12	14690.0	14690.0	0.03%					24	4	1.23	TCLSHT
ABA0812_4-6	6	4	12	12383.2	12383.2	0.18%					24	4	1.98	TCLSHT
ABA0912_4-6	6	4	12	14896.3	14896.3	0.34%					18	3	1.08	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%					32	4	5.91	TCLSHT
ABA0118_4-6	6	4	18	21749.4	21749.4	0.08%					40	5	7.19	TCLSHT
ABA0218_4-6	6	4	18	21436.3	21436.3	0.02%					32	4	5.07	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%					32	4	4.91	TCLSHT
ABA0418_4-6	6	4	18	19933.7	19933.7	0.00%					24	3	3.92	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.00%					40	5	17.62	TCLSHT
ABA0618_4-6	6	4	18	19784.2	19784.2	0.09%					24	3	3.77	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%					32	4	3.10	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%					24	3	2.47	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%					24	3	3.84	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%					15	3	1.02	TCLSHT
ABA016_4-12	12	4	6	15442.2	15442.2	0.02%					20	4	2.71	TCLSHT
ABA026_4-12	12	4	6	13157.6	13157.6	0.00%					15	3	0.94	TCLSHT
ABA036_4-12	12	4	6	12343.4	12343.4	0.02%					15	3	1.24	TCLSHT
ABA046_4-12	12	4	6	14390.6	14390.6	0.10%					10	2	0.71	TCLSHT
ABA056_4-12	12	4	6	14184.0	14184.0	0.01%					15	3	1.70	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%					10	2	0.36	TCLSHT
ABA076_4-12	12	4	6	12495.8	12495.8	0.12%					15	3	0.90	TCLSHT
ABA086_4-12	12	4	6	14701.0	14701.0	0.01%					15	3	0.77	TCLSHT
ABA096_4-12	12	4	6	13295.2	13295.2	0.19%					20	4	2.91	TCLSHT
ABA0012_4-12	12	4	12	24805.6	24805.6	0.20%					30	5	6.68	TCLSHT
ABA0112_4-12	12	4	12	28689.8	28689.8	0.14%					24	4	14.44	TCLSHT
ABA0212_4-12	12	4	12	26529.0	26529.0	0.01%					24	4	4.38	TCLSHT
ABA0312_4-12	12	4	12	25466.3	25466.3	0.01%					24	4	3.21	TCLSHT
ABA0412_4-12	12	4	12	27368.8	27368.8	0.00%					30	5	3.16	TCLSHT
ABA0512_4-12	12	4	12	27965.0	27965.0	0.15%					24	4	6.94	TCLSHT
ABA0612_4-12	12	4	12	24647.5	24647.5	0.13%					18	3	1.34	TCLSHT
ABA0712_4-12	12	4	12	26378.1	26378.1	0.09%					18	3	5.88	TCLSHT
ABA0812_4-12	12	4	12	28141.0	28141.0	0.00%					18	3	2.10	TCLSHT
ABA0912_4-12	12	4	12	28635.4	28635.4	0.00%					24	4	12.34	TCLSHT
ABA0018_4-12	12	4	18	38465.3	38465.3	0.04%					32	4	41.45	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.02%					40	5	60.85	TCLSHT
ABA0218_4-12	12	4	18	39454.4	39454.4	0.00%					32	4	11.61	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.00%					24	3	8.76	TCLSHT
ABA0418_4-12	12	4	18	40770.1	40770.1	0.01%					32	4	13.77	TCLSHT
ABA0518_4-12	12	4	18	41139.8	41139.8	0.04%					24	3	5.55	TCLSHT
ABA0618_4-12	12	4	18	37160.0	37160.0	0.00%					32	4	3.05	TCLSHT
ABA0718_4-12	12	4	18	41278.9	41278.9	0.01%					32	4	22.74	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%					24	3	5.57	TCLSHT
ABA0918_4-12	12	4	18	41702.9	41702.9	-0.06%					24	3	27.60	TCLSHT
ABA006_4-25	25	4	6	25598.9	25598.9	0.00%					20	4	2.56	TCLSHT
ABA016_4-25	25	4	6	29516.4	29516.4	0.06%					15	3	1.71	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%					15	3	4.81	TCLSHT
ABA036_4-25	25	4	6	26044.5	26044.5	0.04%					20	4	4.34	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%					10	2	0.61	TCLSHT
ABA056_4-25	25	4	6	30212.6	30212.6	0.15%					10	2	2.62	TCLSHT
ABA066_4-25	25	4	6	25382.8	25382.8	0.02%					15	3	1.11	TCLSHT
ABA076_4-25	25	4	6	27079.5	27079.5	0.04%					15	3	4.44	TCLSHT
ABA086_4-25	25	4	6	26279.4	26279.4	0.06%					15	3	1.16	TCLSHT
ABA096_4-25	25	4	6	27977.3	27977.3	0.07%					15	3	3.38	TCLSHT
ABA0012_4-25	25	4	12	53757.2	53757.2	0.01%					18	3	17.76	TCLSHT
ABA0112_4-25	25	4	12	56377.6	56377.6	0.02%					18	3	3.59	TCLSHT
ABA0212_4-25	25	4	12	53337.4	53337.4	0.00%					24	4	21.97	TCLSHT
ABA0312_4-25	25	4	12	54115.3	54115.3	0.00%					18	3	7.81	TCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0412_4-25	25	4	12	54969.9	54969.9	0.01%					18	3	4.37	TCLSHT
ABA0512_4-25	25	4	12	57168.0	57168.0	0.07%					18	3	8.69	TCLSHT
ABA0612_4-25	25	4	12	50721.7	50721.7	0.02%					12	2	1.76	TCLSHT
ABA0712_4-25	25	4	12	55616.6	55616.6	0.06%					18	3	16.47	TCLSHT
ABA0812_4-25	25	4	12	54116.9	54116.9	0.00%					18	3	6.20	TCLSHT
ABA0912_4-25	25	4	12	54984.7	54984.7	0.04%					30	5	27.44	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.01%					32	4	30.88	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%					32	4	9.03	TCLSHT
ABA0218_4-25	25	4	18	80988.5	80988.5	0.01%					32	4	42.14	TCLSHT
ABA0318_4-25	25	4	18	80514.6	80514.6	0.01%					32	4	24.85	TCLSHT
ABA0418_4-25	25	4	18	83335.2	83335.2	0.00%					24	3	3.40	TCLSHT
ABA0518_4-25	25	4	18	84453.4	84453.4	0.02%					32	4	18.59	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%					16	2	4.11	TCLSHT
ABA0718_4-25	25	4	18	82721.8	82721.8	0.00%					32	4	54.13	TCLSHT
ABA0818_4-25	25	4	18	78520.8	78520.8	0.00%					32	4	10.92	TCLSHT
ABA0918_4-25	25	4	18	82442.8	82442.8	0.00%					32	4	42.72	TCLSHT
ABA006_4-50	50	4	6	54643.6	54643.6	0.00%					15	3	2.05	TCLSHT
ABA016_4-50	50	4	6	55415.2	55415.2	0.02%					15	3	1.88	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%					10	2	1.70	TCLSHT
ABA036_4-50	50	4	6	55279.3	55279.3	0.03%					15	3	4.19	TCLSHT
ABA046_4-50	50	4	6	56931.4	56931.4	0.03%					15	3	9.96	TCLSHT
ABA056_4-50	50	4	6	57378.7	57378.7	0.00%					20	4	3.99	TCLSHT
ABA066_4-50	50	4	6	52880.3	52880.3	0.02%					15	3	2.60	TCLSHT
ABA076_4-50	50	4	6	51697.5	51697.5	0.03%					10	2	3.70	TCLSHT
ABA086_4-50	50	4	6	52932.3	52932.3	0.02%					10	2	4.31	TCLSHT
ABA096_4-50	50	4	6	60180.8	60180.8	0.03%					10	2	2.28	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.00%					24	4	37.10	TCLSHT
ABA0112_4-50	50	4	12	108467.3	108467.3	0.00%					18	3	4.89	TCLSHT
ABA0212_4-50	50	4	12	108019.1	108019.1	0.00%					18	3	7.07	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.00%					12	2	8.46	TCLSHT
ABA0412_4-50	50	4	12	109698.8	109698.8	0.00%					18	3	29.75	TCLSHT
ABA0512_4-50	50	4	12	112016.2	112016.2	0.00%					18	3	3.31	TCLSHT
ABA0612_4-50	50	4	12	104015.9	104015.9	0.00%					18	3	2.68	TCLSHT
ABA0712_4-50	50	4	12	106632.7	106632.7	0.00%					24	4	25.37	TCLSHT
ABA0812_4-50	50	4	12	106518.3	106518.3	0.01%					18	3	5.65	TCLSHT
ABA0912_4-50	50	4	12	114394.3	114394.3	0.01%					18	3	7.67	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%					24	3	20.46	TCLSHT
ABA0118_4-50	50	4	18	161812.6	161812.6	0.00%					40	5	17.64	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%					24	3	17.62	TCLSHT
ABA0318_4-50	50	4	18	163387.8	163387.8	0.02%					32	4	51.32	TCLSHT
ABA0418_4-50	50	4	18	166595.0	166595.0	0.01%					40	5	95.23	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%					32	4	11.59	TCLSHT
ABA0618_4-50	50	4	18	156361.6	156361.6	0.00%					32	4	28.34	TCLSHT
ABA0718_4-50	50	4	18	161769.8	161769.8	-0.01%					48	6	115.50	TCLSHT
ABA0818_4-50	50	4	18	157354.6	157354.6	0.00%					16	2	5.07	TCLSHT
ABA0918_4-50	50	4	18	168526.1	168526.1	0.00%					16	2	13.52	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%					15	3	0.48	TCLSHT
ABA016_6-6	6	6	6	7316.6	7316.6	0.24%					20	4	1.73	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%					15	3	0.47	TCLSHT
ABA036_6-6	6	6	6	7420.1	7420.1	0.09%					15	3	0.56	TCLSHT
ABA046_6-6	6	6	6	8167.0	8167.0	0.15%					15	3	1.14	TCLSHT
ABA056_6-6	6	6	6	8047.7	8047.7	0.12%					15	3	1.16	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%					15	3	0.69	TCLSHT
ABA076_6-6	6	6	6	7779.2	7779.2	0.06%					15	3	1.25	TCLSHT
ABA086_6-6	6	6	6	6714.9	6714.9	0.00%					15	3	0.56	TCLSHT
ABA096_6-6	6	6	6	7596.8	7596.8	0.59%					15	3	1.17	TCLSHT
ABA0012_6-6	6	6	12	12136.4	12136.4	0.00%					18	3	0.73	TCLSHT
ABA0112_6-6	6	6	12	14299.5	14299.5	0.04%					24	4	2.25	TCLSHT
ABA0212_6-6	6	6	12	14345.0	14345.0	0.10%					18	3	1.99	TCLSHT
ABA0312_6-6	6	6	12	14852.0	14852.0	0.10%					24	4	1.95	TCLSHT
ABA0412_6-6	6	6	12	15052.4	15052.4	0.04%					24	4	3.82	TCLSHT
ABA0512_6-6	6	6	12	14768.7	14768.7	0.21%					18	3	4.21	TCLSHT
ABA0612_6-6	6	6	12	12786.0	12786.0	0.15%					24	4	4.04	TCLSHT
ABA0712_6-6	6	6	12	15339.4	15339.4	0.31%					18	3	5.76	TCLSHT
ABA0812_6-6	6	6	12	12632.9	12632.9	0.12%					24	4	4.64	TCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0912_6-6	6	6	12	14338.0	14338.0	0.00%					24	4	4.40	TCLSHT
ABA0018_6-6	6	6	18	17950.1	17950.1	0.00%					24	3	2.10	TCLSHT
ABA0218_6-6	6	6	18	20075.8	20075.8	0.01%					32	4	6.81	TCLSHT
ABA0318_6-6	6	6	18	20696.4	20696.4	0.13%					32	4	4.88	TCLSHT
ABA0418_6-6	6	6	18	22441.3	22441.3	0.02%					40	5	10.50	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%					40	5	6.14	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%					24	3	6.39	TCLSHT
ABA0718_6-6	6	6	18	22013.0	22013.0	0.01%					32	4	5.14	TCLSHT
ABA0818_6-6	6	6	18	20298.4	20298.4	0.20%					24	3	6.95	TCLSHT
ABA0918_6-6	6	6	18	21702.5	21702.5	0.00%					40	5	24.27	TCLSHT
ABA006_6-12	12	6	6	12812.5	12812.5	0.00%					15	3	1.23	TCLSHT
ABA016_6-12	12	6	6	13123.5	13123.5	0.08%					15	3	1.87	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%					20	4	1.28	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%					10	2	0.46	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%					15	3	0.93	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%					20	4	0.96	TCLSHT
ABA066_6-12	12	6	6	11702.1	11702.1	0.00%					15	3	1.33	TCLSHT
ABA076_6-12	12	6	6	13602.8	13602.8	0.22%					20	4	4.02	TCLSHT
ABA086_6-12	12	6	6	13529.0	13529.0	0.44%					15	3	2.87	TCLSHT
ABA096_6-12	12	6	6	14406.8	14406.8	0.02%					15	3	3.50	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%					30	5	4.47	TCLSHT
ABA0112_6-12	12	6	12	25698.4	25698.4	0.00%					24	4	4.70	TCLSHT
ABA0212_6-12	12	6	12	24229.1	24229.1	0.04%					24	4	17.47	TCLSHT
ABA0312_6-12	12	6	12	26590.4	26590.4	0.00%					18	3	3.33	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%					18	3	2.13	TCLSHT
ABA0512_6-12	12	6	12	26334.3	26334.3	0.05%					24	4	4.48	TCLSHT
ABA0612_6-12	12	6	12	23650.2	23650.2	0.05%					36	6	7.49	TCLSHT
ABA0712_6-12	12	6	12	28127.3	28127.3	0.06%					36	6	41.06	TCLSHT
ABA0812_6-12	12	6	12	25965.6	25965.6	0.00%					30	5	16.36	TCLSHT
ABA0912_6-12	12	6	12	27430.5	27430.5	0.02%					24	4	11.24	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%					32	4	12.71	TCLSHT
ABA0118_6-12	12	6	18	41269.9	41269.9	0.04%					32	4	17.61	TCLSHT
ABA0218_6-12	12	6	18	36881.3	36881.3	0.00%					24	3	19.68	TCLSHT
ABA0318_6-12	12	6	18	38518.2	38518.2	0.01%					24	3	8.55	TCLSHT
ABA0418_6-12	12	6	18	37126.2	37126.2	0.00%					32	4	7.89	TCLSHT
ABA0518_6-12	12	6	18	40636.6	40636.6	0.03%					32	4	20.20	TCLSHT
ABA0618_6-12	12	6	18	37444.1	37444.1	0.03%					32	4	26.05	TCLSHT
ABA0718_6-12	12	6	18	41600.9	41600.9	0.05%					32	4	59.56	TCLSHT
ABA0818_6-12	12	6	18	39544.8	39544.8	0.12%					32	4	66.78	TCLSHT
ABA0918_6-12	12	6	18	41320.6	41320.6	0.01%					32	4	36.52	TCLSHT
ABA006_6-25	25	6	6	25664.9	25664.9	0.02%					15	3	6.04	TCLSHT
ABA016_6-25	25	6	6	25434.6	25434.6	0.12%					15	3	10.78	TCLSHT
ABA026_6-25	25	6	6	26791.9	26791.9	0.00%					15	3	3.77	TCLSHT
ABA036_6-25	25	6	6	26823.6	26823.6	0.03%					20	4	20.84	TCLSHT
ABA046_6-25	25	6	6	28534.7	28534.7	0.06%					20	4	24.15	TCLSHT
ABA056_6-25	25	6	6	26307.5	26307.5	0.08%					20	4	12.13	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%					10	2	1.38	TCLSHT
ABA076_6-25	25	6	6	27981.4	27981.4	0.03%					20	4	7.13	TCLSHT
ABA086_6-25	25	6	6	26667.2	26667.2	0.00%					15	3	5.02	TCLSHT
ABA096_6-25	25	6	6	26356.7	26356.7	0.05%					20	4	4.19	TCLSHT
ABA0012_6-25	25	6	12	52463.7	52463.7	0.03%					24	4	32.13	TCLSHT
ABA0112_6-25	25	6	12	52640.9	52640.9	0.03%					24	4	60.66	TCLSHT
ABA0212_6-25	25	6	12	53997.3	53997.3	0.01%					30	5	14.27	TCLSHT
ABA0312_6-25	25	6	12	52446.7	52446.7	0.02%					24	4	36.50	TCLSHT
ABA0412_6-25	25	6	12	56018.9	56018.9	0.03%					24	4	51.51	TCLSHT
ABA0512_6-25	25	6	12	51799.1	51799.1	0.02%					30	5	38.20	TCLSHT
ABA0612_6-25	25	6	12	50984.3	50984.3	0.00%					18	3	3.95	TCLSHT
ABA0712_6-25	25	6	12	52745.0	52745.0	0.04%					24	4	23.30	TCLSHT
ABA0812_6-25	25	6	12	51202.5	51202.5	0.04%					24	4	11.65	TCLSHT
ABA0912_6-25	25	6	12	53578.4	53578.4	0.00%					24	4	15.24	TCLSHT
ABA0018_6-25	25	6	18	76420.0	76420.0	0.00%					40	5	142.99	TCLSHT
ABA0118_6-25	25	6	18	79411.2	79411.2	0.01%					24	3	40.36	TCLSHT
ABA0218_6-25	25	6	18	81688.0	81688.0	0.00%					32	4	45.66	TCLSHT
ABA0318_6-25	25	6	18	79833.3	79833.3	0.01%					40	5	223.42	TCLSHT
ABA0418_6-25	25	6	18	84950.6	84950.6	0.02%					32	4	156.48	TCLSHT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0518_6-25	25	6	18	80989.9	80989.9	0.00%					32	4	74.54	TCLSHT
ABA0618_6-25	25	6	18	76313.5	76313.5	0.00%					24	3	12.52	TCLSHT
ABA0718_6-25	25	6	18	77709.2	77709.2	0.02%					32	4	52.18	TCLSHT
ABA0818_6-25	25	6	18	75136.5	75136.5	0.03%					24	3	26.80	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%					32	4	27.46	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%					20	4	8.39	TCLSHT
ABA016_6-50	50	6	6	50641.4	50641.4	0.00%					15	3	10.22	TCLSHT
ABA026_6-50	50	6	6	52179.2	52179.2	0.00%					30	6	46.87	TCLSHT
ABA036_6-50	50	6	6	51690.8	51690.8	0.01%					15	3	5.69	TCLSHT
ABA046_6-50	50	6	6	54016.9	54016.9	0.03%					10	2	12.71	TCLSHT
ABA056_6-50	50	6	6	52786.1	52786.1	0.06%					20	4	16.24	TCLSHT
ABA066_6-50	50	6	6	51968.1	51968.1	0.02%					15	3	22.77	TCLSHT
ABA076_6-50	50	6	6	54019.2	54019.2	0.03%					10	2	3.11	TCLSHT
ABA086_6-50	50	6	6	50875.2	50875.2	0.02%					10	2	17.59	TCLSHT
ABA096_6-50	50	6	6	50684.2	50684.2	0.02%					10	2	4.92	TCLSHT
ABA0012_6-50	50	6	12	102508.4	102508.4	0.02%					12	2	21.28	TCLSHT
ABA0112_6-50	50	6	12	101535.4	101535.4	0.01%					24	4	26.72	TCLSHT
ABA0212_6-50	50	6	12	105127.5	105127.5	0.03%					24	4	103.39	TCLSHT
ABA0312_6-50	50	6	12	102577.4	102577.4	0.02%					18	3	16.27	TCLSHT
ABA0412_6-50	50	6	12	109761.3	109761.3	0.01%					24	4	56.94	TCLSHT
ABA0512_6-50	50	6	12	105401.9	105401.9	0.04%					24	4	49.51	TCLSHT
ABA0612_6-50	50	6	12	102029.6	102029.6	0.01%					24	4	65.02	TCLSHT
ABA0712_6-50	50	6	12	107578.0	107578.0	0.01%					24	4	23.10	TCLSHT
ABA0812_6-50	50	6	12	99900.4	99900.4	0.01%					24	4	28.17	TCLSHT
ABA0912_6-50	50	6	12	102342.0	102342.0	0.03%					24	4	34.33	TCLSHT
ABA0018_6-50	50	6	18	152829.5	152829.5	0.00%					24	3	75.87	TCLSHT
ABA0118_6-50	50	6	18	150963.8	150963.8	0.00%					24	3	48.06	TCLSHT
ABA0218_6-50	50	6	18	154490.2	154490.2	0.01%					24	3	91.28	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%					32	4	28.55	TCLSHT
ABA0418_6-50	50	6	18	164859.2	164859.2	0.00%					40	5	139.72	TCLSHT
ABA0518_6-50	50	6	18	155415.7	155415.7	0.01%					32	4	136.87	TCLSHT
ABA0618_6-50	50	6	18	154321.2	154321.2	0.03%					32	4	152.76	TCLSHT
ABA0718_6-50	50	6	18	159120.7	159120.7	0.00%					48	6	92.06	TCLSHT
ABA0818_6-50	50	6	18	151035.2	151035.2	0.00%					40	5	57.04	TCLSHT
ABA0918_6-50	50	6	18	154193.1	154193.1	0.00%					32	4	72.56	TCLSHT
ABB006_2-6	6	2	6	8233.3	8233.3	0.08%					20	4	0.62	TCLSLT
ABB006_2-6	6	2	6	8233.3	8233.3	0.08%					20	4	0.62	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%					15	3	0.34	TCLSLT
ABB026_2-6	6	2	6	7157.4	7157.4	0.00%					10	2	0.37	TCLSLT
ABB046_2-6	6	2	6	8047.5	8047.5	0.20%					20	4	0.67	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%					10	2	0.19	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%					15	3	0.38	TCLSLT
ABB076_2-6	6	2	6	9232.4	9232.4	0.58%					10	2	0.28	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%					10	2	0.19	TCLSLT
ABB096_2-6	6	2	6	7152.1	7152.1	0.00%					15	3	0.23	TCLSLT
ABB0012_2-6	6	2	12	15744.3	15744.3	0.19%					24	4	2.04	TCLSLT
ABB0112_2-6	6	2	12	13461.1	13461.1	0.02%					18	3	0.80	TCLSLT
ABB0212_2-6	6	2	12	15133.3	15133.3	1.21%					18	3	1.38	TCLSLT
ABB0412_2-6	6	2	12	14164.9	14164.9	0.18%					48	8	2.24	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%					18	3	0.57	TCLSLT
ABB0612_2-6	6	2	12	15105.9	15105.9	0.14%					12	2	0.72	TCLSLT
ABB0712_2-6	6	2	12	16726.5	16726.5	0.08%					24	4	1.13	TCLSLT
ABB0812_2-6	6	2	12	14190.2	14190.2	0.03%					24	4	0.94	TCLSLT
ABB0912_2-6	6	2	12	9270016287.6	9270016355.9	100.00%					18	3	0.55	TCLSLT
ABB0018_2-6	6	2	18	22001.6	22001.6	0.03%					32	4	5.93	TCLSLT
ABB0118_2-6	6	2	18	188120021460.4	188120022393.5	100.00%					8	1	0.56	TCLSLT
ABB0218_2-6	6	2	18	22591.8	22591.8	0.00%					40	5	3.21	TCLSLT
ABB0418_2-6	6	2	18	20391.1	20391.1	0.01%					32	4	3.97	TCLSLT
ABB0518_2-6	6	2	18	25221.1	25221.1	0.09%					32	4	2.74	TCLSLT
ABB0618_2-6	6	2	18	22957.3	22957.3	0.06%					32	4	2.36	TCLSLT
ABB0718_2-6	6	2	18	24521.1	24521.1	0.04%					40	5	4.81	TCLSLT
ABB0818_2-6	6	2	18	20987.9	20987.9	0.08%					32	4	1.96	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%					24	3	1.44	TCLSLT
ABB006_2-12	12	2	6	12756.1	12756.1	0.03%					10	2	0.33	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%					25	5	0.72	TCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB026_2-12	12	2	6	14417.9	14417.9	0.24%					20	4	1.07	TCLSLT
ABB036_2-12	12	2	6	16417.8	16417.8	0.14%					15	3	0.54	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%					10	2	0.42	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%					20	4	0.87	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%					15	3	0.60	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%					15	3	0.45	TCLSLT
ABB086_2-12	12	2	6	12982.3	12982.3	0.00%					10	2	0.57	TCLSLT
ABB096_2-12	12	2	6	16038.5	16038.5	0.04%					15	3	0.87	TCLSLT
ABB0012_2-12	12	2	12	56260027372.7	56260027527.8	100.00%					6	1	0.36	TCLSLT
ABB0112_2-12	12	2	12	27525.6	27525.6	0.06%					18	3	1.41	TCLSLT
ABB0212_2-12	12	2	12	27431.4	27431.4	0.03%					42	7	5.02	TCLSLT
ABB0312_2-12	12	2	12	31887.0	31887.0	0.12%					36	6	3.32	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%					24	4	1.64	TCLSLT
ABB0512_2-12	12	2	12	32212.1	32212.1	0.04%					12	2	1.11	TCLSLT
ABB0612_2-12	12	2	12	27359.1	27359.1	0.05%					18	3	1.03	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%					18	3	1.30	TCLSLT
ABB0812_2-12	12	2	12	26750.2	26750.2	0.02%					24	4	1.89	TCLSLT
ABB0912_2-12	12	2	12	31347.5	31347.5	0.10%					24	4	3.37	TCLSLT
ABB0118_2-12	12	2	18	40656.8	40656.8	0.04%					32	4	6.31	TCLSLT
ABB0218_2-12	12	2	18	42006.5	42006.5	0.00%					40	5	11.31	TCLSLT
ABB0318_2-12	12	2	18	46500.5	46500.5	0.06%					32	4	6.85	TCLSLT
ABB0418_2-12	12	2	18	44295.9	44295.9	0.04%					32	4	5.96	TCLSLT
ABB0518_2-12	12	2	18	47422.7	47422.7	0.00%					32	4	6.17	TCLSLT
ABB0618_2-12	12	2	18	40776.9	40776.9	0.05%					32	4	3.60	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%					24	3	2.21	TCLSLT
ABB0818_2-12	12	2	18	41451.7	41451.7	0.00%					24	3	4.75	TCLSLT
ABB0918_2-12	12	2	18	47575.9	47575.9	0.02%					32	4	19.31	TCLSLT
ABB006_2-25	25	2	6	29265.1	29265.1	0.16%					15	3	0.82	TCLSLT
ABB016_2-25	25	2	6	30026.3	30026.3	0.24%					15	3	1.00	TCLSLT
ABB026_2-25	25	2	6	28774.2	28774.2	0.00%					15	3	1.13	TCLSLT
ABB036_2-25	25	2	6	30295.8	30295.8	0.07%					15	3	1.43	TCLSLT
ABB046_2-25	25	2	6	31560.1	31560.1	0.06%					15	3	1.13	TCLSLT
ABB056_2-25	25	2	6	31759.1	31759.1	0.04%					15	3	1.87	TCLSLT
ABB066_2-25	25	2	6	27896.2	27896.2	0.00%					10	2	0.37	TCLSLT
ABB076_2-25	25	2	6	31473.4	31473.4	0.11%					30	6	2.81	TCLSLT
ABB086_2-25	25	2	6	32358.5	32358.5	0.02%					15	3	1.14	TCLSLT
ABB096_2-25	25	2	6	33518.4	33518.4	0.15%					25	5	2.99	TCLSLT
ABB0012_2-25	25	2	12	58331.9	58331.9	0.01%					12	2	1.83	TCLSLT
ABB0112_2-25	25	2	12	61101.4	61101.4	0.02%					18	3	6.01	TCLSLT
ABB0212_2-25	25	2	12	56472.0	56472.0	0.05%					24	4	4.16	TCLSLT
ABB0312_2-25	25	2	12	59382.2	59382.2	0.05%					18	3	9.24	TCLSLT
ABB0412_2-25	25	2	12	59863.0	59863.0	0.01%					30	5	3.38	TCLSLT
ABB0512_2-25	25	2	12	65399.9	65399.9	0.05%					18	3	6.61	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%					12	2	0.74	TCLSLT
ABB0712_2-25	25	2	12	62954.0	62954.0	0.03%					18	3	4.83	TCLSLT
ABB0812_2-25	25	2	12	63134.9	63134.9	0.02%					18	3	6.45	TCLSLT
ABB0912_2-25	25	2	12	64154.6	64154.6	0.01%					24	4	5.24	TCLSLT
ABB0018_2-25	25	2	18	87097.0	87097.0	0.00%					24	3	3.57	TCLSLT
ABB0118_2-25	25	2	18	88774.1	88774.1	0.02%					32	4	12.60	TCLSLT
ABB0218_2-25	25	2	18	83579.3	83579.3	0.07%					24	3	8.53	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.00%					32	4	28.32	TCLSLT
ABB0418_2-25	25	2	18	90853.8	90853.8	0.01%					32	4	11.04	TCLSLT
ABB0518_2-25	25	2	18	95646.4	95646.4	0.05%					40	5	127.99	TCLSLT
ABB0618_2-25	25	2	18	83620.4	83620.4	0.00%					24	3	2.99	TCLSLT
ABB0718_2-25	25	2	18	92456.8	92456.8	0.01%					24	3	30.90	TCLSLT
ABB0818_2-25	25	2	18	91835.3	91835.3	0.01%					32	4	47.46	TCLSLT
ABB0918_2-25	25	2	18	93412.4	93412.4	0.00%					40	5	19.98	TCLSLT
ABB006_2-50	50	2	6	58845.1	58845.1	0.00%					10	2	0.91	TCLSLT
ABB016_2-50	50	2	6	60378.9	60378.9	0.01%					10	2	1.12	TCLSLT
ABB026_2-50	50	2	6	56441.4	56441.4	0.02%					10	2	2.41	TCLSLT
ABB036_2-50	50	2	6	59469.3	59469.3	0.01%					10	2	0.94	TCLSLT
ABB046_2-50	50	2	6	61238.1	61238.1	0.04%					15	3	4.00	TCLSLT
ABB056_2-50	50	2	6	59593.3	59593.3	0.07%					10	2	1.55	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%					20	4	1.87	TCLSLT
ABB076_2-50	50	2	6	59130.1	59130.1	0.01%					20	4	4.56	TCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB086_2-50	50	2	6	60205.4	60205.4	0.03%					15	3	2.51	TCLSLT
ABB096_2-50	50	2	6	60810.4	60810.4	0.01%					15	3	1.46	TCLSLT
ABB0012_2-50	50	2	12	117401.0	117401.0	0.01%					18	3	3.16	TCLSLT
ABB0112_2-50	50	2	12	119978.1	119978.1	0.00%					12	2	2.00	TCLSLT
ABB0212_2-50	50	2	12	114372.2	114372.2	0.04%					18	3	8.89	TCLSLT
ABB0312_2-50	50	2	12	120142.6	120142.6	0.03%					30	5	14.43	TCLSLT
ABB0412_2-50	50	2	12	122610.6	122610.6	0.02%					42	7	47.01	TCLSLT
ABB0512_2-50	50	2	12	119648.8	119648.8	0.02%					24	4	22.63	TCLSLT
ABB0612_2-50	50	2	12	113762.7	113762.7	0.02%					18	3	4.77	TCLSLT
ABB0712_2-50	50	2	12	115046.3	115046.3	0.03%					18	3	21.88	TCLSLT
ABB0812_2-50	50	2	12	115728.3	115728.3	0.03%					18	3	14.56	TCLSLT
ABB0912_2-50	50	2	12	122646.6	122646.6	0.02%					30	5	7.89	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%					32	4	5.04	TCLSLT
ABB0118_2-50	50	2	18	178894.7	178894.7	0.00%					16	2	5.11	TCLSLT
ABB0218_2-50	50	2	18	170089.5	170089.5	0.01%					32	4	43.89	TCLSLT
ABB0318_2-50	50	2	18	181267.9	181267.9	0.01%					32	4	66.74	TCLSLT
ABB0418_2-50	50	2	18	182971.5	182971.5	0.01%					32	4	108.34	TCLSLT
ABB0518_2-50	50	2	18	181347.2	181347.2	0.00%					16	2	19.00	TCLSLT
ABB0618_2-50	50	2	18	171902.8	171902.8	0.00%					24	3	6.63	TCLSLT
ABB0718_2-50	50	2	18	172676.7	172676.7	0.00%					40	5	27.12	TCLSLT
ABB0818_2-50	50	2	18	173946.6	173946.6	0.01%					32	4	17.88	TCLSLT
ABB0918_2-50	50	2	18	183302.2	183302.2	0.00%					32	4	44.36	TCLSLT
ABB006_4-6	6	4	6	6457.8	6457.8	0.00%					15	3	0.66	TCLSLT
ABB016_4-6	6	4	6	7419.7	7419.7	0.04%					20	4	1.01	TCLSLT
ABB026_4-6	6	4	6	7463.2	7463.2	0.00%					15	3	0.53	TCLSLT
ABB036_4-6	6	4	6	6864.4	6864.4	0.65%					15	3	0.74	TCLSLT
ABB046_4-6	6	4	6	5696.2	5696.2	0.25%					15	3	0.84	TCLSLT
ABB056_4-6	6	4	6	8082.9	8082.9	0.79%					20	4	2.18	TCLSLT
ABB066_4-6	6	4	6	6508.5	6508.5	0.07%					15	3	0.58	TCLSLT
ABB076_4-6	6	4	6	7826.7	7826.7	0.03%					15	3	0.49	TCLSLT
ABB086_4-6	6	4	6	5927.7	5927.7	0.18%					15	3	0.49	TCLSLT
ABB096_4-6	6	4	6	8629.8	8629.8	0.22%					15	3	0.62	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%					18	3	1.09	TCLSLT
ABB0112_4-6	6	4	12	15530.8	15530.8	0.00%					18	3	1.88	TCLSLT
ABB0212_4-6	6	4	12	14799.1	14799.1	0.04%					18	3	1.72	TCLSLT
ABB0312_4-6	6	4	12	14718.6	14718.6	0.00%					18	3	1.10	TCLSLT
ABB0412_4-6	6	4	12	13197.0	13197.0	0.00%					30	5	4.64	TCLSLT
ABB0512_4-6	6	4	12	16288.3	16288.3	0.19%					24	4	7.26	TCLSLT
ABB0612_4-6	6	4	12	12964.9	12964.9	0.08%					18	3	1.16	TCLSLT
ABB0712_4-6	6	4	12	14887.1	14887.1	0.02%					18	3	1.53	TCLSLT
ABB0812_4-6	6	4	12	12606.1	12606.1	0.07%					24	4	1.42	TCLSLT
ABB0912_4-6	6	4	12	15164.3	15164.3	0.31%					18	3	1.39	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%					32	4	5.44	TCLSLT
ABB0118_4-6	6	4	18	22158.4	22158.4	0.00%					40	5	9.80	TCLSLT
ABB0218_4-6	6	4	18	21734.9	21734.9	0.00%					32	4	8.20	TCLSLT
ABB0318_4-6	6	4	18	22543.4	22543.4	0.01%					40	5	6.79	TCLSLT
ABB0418_4-6	6	4	18	20302.3	20302.3	0.09%					32	4	10.94	TCLSLT
ABB0518_4-6	6	4	18	24088.7	24088.7	0.00%					40	5	24.50	TCLSLT
ABB0618_4-6	6	4	18	20158.6	20158.6	0.01%					24	3	3.95	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%					32	4	9.57	TCLSLT
ABB0818_4-6	6	4	18	18410.0	18410.0	0.02%					40	5	4.17	TCLSLT
ABB0918_4-6	6	4	18	22403.9	22403.9	0.05%					24	3	3.92	TCLSLT
ABB006_4-12	12	4	6	13450.1	13450.1	0.03%					15	3	1.67	TCLSLT
ABB016_4-12	12	4	6	15650.6	15650.6	0.00%					25	5	6.39	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%					15	3	1.11	TCLSLT
ABB036_4-12	12	4	6	12518.8	12518.8	0.41%					15	3	2.24	TCLSLT
ABB046_4-12	12	4	6	14484.3	14484.3	0.00%					15	3	1.50	TCLSLT
ABB056_4-12	12	4	6	14352.4	14352.4	0.08%					15	3	2.48	TCLSLT
ABB066_4-12	12	4	6	12697.2	12697.2	0.00%					20	4	0.59	TCLSLT
ABB076_4-12	12	4	6	12606.8	12606.8	0.01%					15	3	1.35	TCLSLT
ABB086_4-12	12	4	6	14773.6	14773.6	0.02%					20	4	1.19	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%					25	5	2.87	TCLSLT
ABB0012_4-12	12	4	12	25219.2	25219.2	0.18%					36	6	29.99	TCLSLT
ABB0112_4-12	12	4	12	29047.8	29047.8	0.01%					42	7	45.77	TCLSLT
ABB0212_4-12	12	4	12	26768.5	26768.5	0.06%					24	4	7.23	TCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0312_4-12	12	4	12	25918.7	25918.7	0.24%					18	3	18.29	TCLSLT
ABB0412_4-12	12	4	12	27618.7	27618.7	0.07%					24	4	7.25	TCLSLT
ABB0512_4-12	12	4	12	28293.4	28293.4	0.17%					30	5	33.73	TCLSLT
ABB0612_4-12	12	4	12	24803.9	24803.9	0.20%					24	4	2.31	TCLSLT
ABB0712_4-12	12	4	12	26665.9	26665.9	0.07%					30	5	6.84	TCLSLT
ABB0812_4-12	12	4	12	28393.9	28393.9	0.07%					24	4	3.84	TCLSLT
ABB0912_4-12	12	4	12	29045.5	29045.5	0.11%					36	6	43.62	TCLSLT
ABB0018_4-12	12	4	18	38888.6	38888.6	-0.05%					32	4	51.57	TCLSLT
ABB0118_4-12	12	4	18	42634.5	42634.5	-0.05%					40	5	108.54	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.00%					32	4	18.19	TCLSLT
ABB0318_4-12	12	4	18	40339.7	40339.7	0.05%					40	5	93.38	TCLSLT
ABB0418_4-12	12	4	18	41078.3	41078.3	0.01%					32	4	26.41	TCLSLT
ABB0518_4-12	12	4	18	41439.8	41439.8	0.07%					32	4	40.67	TCLSLT
ABB0618_4-12	12	4	18	37402.2	37402.2	0.02%					32	4	7.13	TCLSLT
ABB0718_4-12	12	4	18	41744.8	41744.8	0.13%					32	4	41.70	TCLSLT
ABB0818_4-12	12	4	18	43192.5	43192.5	0.00%					32	4	22.01	TCLSLT
ABB0918_4-12	12	4	18	42111.4	42111.4	0.02%					32	4	85.61	TCLSLT
ABB006_4-25	25	4	6	25711.8	25711.8	0.02%					20	4	2.60	TCLSLT
ABB016_4-25	25	4	6	29649.4	29649.4	0.08%					15	3	1.89	TCLSLT
ABB026_4-25	25	4	6	27876.6	27876.6	0.08%					20	4	25.96	TCLSLT
ABB036_4-25	25	4	6	26296.8	26296.8	0.02%					20	4	8.95	TCLSLT
ABB046_4-25	25	4	6	26760.7	26760.7	0.01%					15	3	1.44	TCLSLT
ABB056_4-25	25	4	6	30272.1	30272.1	0.01%					15	3	3.95	TCLSLT
ABB066_4-25	25	4	6	25487.5	25487.5	0.06%					20	4	1.73	TCLSLT
ABB076_4-25	25	4	6	27321.3	27321.3	0.00%					20	4	9.62	TCLSLT
ABB086_4-25	25	4	6	26363.1	26363.1	0.05%					10	2	1.56	TCLSLT
ABB096_4-25	25	4	6	28093.2	28093.2	0.05%					15	3	3.03	TCLSLT
ABB0012_4-25	25	4	12	54091.3	54091.3	-0.02%					24	4	51.66	TCLSLT
ABB0112_4-25	25	4	12	56540.3	56540.3	0.00%					36	6	14.23	TCLSLT
ABB0212_4-25	25	4	12	53625.0	53625.0	0.04%					30	5	67.72	TCLSLT
ABB0312_4-25	25	4	12	54456.7	54456.7	0.00%					30	5	39.84	TCLSLT
ABB0412_4-25	25	4	12	55098.5	55098.5	0.00%					12	2	3.61	TCLSLT
ABB0512_4-25	25	4	12	57290.0	57290.0	0.00%					18	3	24.14	TCLSLT
ABB0612_4-25	25	4	12	50868.4	50868.4	0.02%					24	4	6.15	TCLSLT
ABB0712_4-25	25	4	12	55974.0	55974.0	0.05%					30	5	66.26	TCLSLT
ABB0812_4-25	25	4	12	54396.6	54396.6	0.12%					24	4	38.86	TCLSLT
ABB0912_4-25	25	4	12	55268.7	55268.7	0.02%					24	4	59.13	TCLSLT
ABB0018_4-25	25	4	18	78511.6	78511.6	0.01%					32	4	114.16	TCLSLT
ABB0118_4-25	25	4	18	84176.7	84176.7	0.01%					24	3	32.49	TCLSLT
ABB0218_4-25	25	4	18	81380.4	81380.4	0.00%					32	4	159.47	TCLSLT
ABB0318_4-25	25	4	18	81014.3	81014.3	0.04%					32	4	98.88	TCLSLT
ABB0418_4-25	25	4	18	83484.4	83484.4	0.01%					24	3	9.34	TCLSLT
ABB0518_4-25	25	4	18	84724.9	84724.9	0.07%					32	4	73.10	TCLSLT
ABB0618_4-25	25	4	18	77583.7	77583.7	0.01%					32	4	10.43	TCLSLT
ABB0718_4-25	25	4	18	83245.3	83245.3	0.00%					40	5	141.39	TCLSLT
ABB0818_4-25	25	4	18	78754.9	78754.9	0.02%					32	4	28.59	TCLSLT
ABB0918_4-25	25	4	18	82802.1	82802.1	0.00%					40	5	120.84	TCLSLT
ABB006_4-50	50	4	6	54786.5	54786.5	0.01%					10	2	4.90	TCLSLT
ABB016_4-50	50	4	6	55555.5	55555.5	0.02%					10	2	4.00	TCLSLT
ABB026_4-50	50	4	6	56239.2	56239.2	0.02%					15	3	11.28	TCLSLT
ABB036_4-50	50	4	6	55563.6	55563.6	0.05%					15	3	16.80	TCLSLT
ABB046_4-50	50	4	6	57291.6	57291.6	0.04%					20	4	51.40	TCLSLT
ABB056_4-50	50	4	6	57508.3	57508.3	0.00%					15	3	5.64	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%					10	2	1.83	TCLSLT
ABB076_4-50	50	4	6	51865.3	51865.3	0.02%					25	5	8.39	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%					15	3	5.08	TCLSLT
ABB096_4-50	50	4	6	60285.4	60285.4	0.02%					15	3	5.70	TCLSLT
ABB0012_4-50	50	4	12	110823.4	110823.4	0.00%					24	4	55.00	TCLSLT
ABB0112_4-50	50	4	12	108638.1	108638.1	0.01%					24	4	20.78	TCLSLT
ABB0212_4-50	50	4	12	108299.1	108299.1	0.01%					18	3	22.78	TCLSLT
ABB0312_4-50	50	4	12	110649.7	110649.7	0.03%					42	7	112.05	TCLSLT
ABB0412_4-50	50	4	12	110201.3	110201.3	0.04%					18	3	42.46	TCLSLT
ABB0512_4-50	50	4	12	112151.2	112151.2	0.01%					24	4	18.59	TCLSLT
ABB0612_4-50	50	4	12	104158.4	104158.4	0.01%					18	3	5.41	TCLSLT
ABB0712_4-50	50	4	12	107064.4	107064.4	0.02%					18	3	80.20	TCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0812_4-50	50	4	12	106691.3	106691.3	0.01%					24	4	16.32	TCLSLT
ABB0912_4-50	50	4	12	114587.5	114587.5	-0.02%					30	5	30.15	TCLSLT
ABB0018_4-50	50	4	18	160416.9	160416.9	-0.01%					32	4	85.64	TCLSLT
ABB0118_4-50	50	4	18	162045.4	162045.4	0.00%					32	4	39.77	TCLSLT
ABB0218_4-50	50	4	18	163370.1	163370.1	0.00%					24	3	63.88	TCLSLT
ABB0318_4-50	50	4	18	163935.3	163935.3	0.00%					40	5	212.11	TCLSLT
ABB0418_4-50	50	4	18	167299.5	167299.5	0.00%					32	4	210.80	TCLSLT
ABB0518_4-50	50	4	18	168386.0	168386.0	0.00%					24	3	52.10	TCLSLT
ABB0618_4-50	50	4	18	156610.4	156610.4	0.01%					32	4	80.13	TCLSLT
ABB0718_4-50	50	4	18	162352.0	162352.0	0.01%					40	5	164.91	TCLSLT
ABB0818_4-50	50	4	18	157551.6	157551.6	0.00%					32	4	26.52	TCLSLT
ABB0918_4-50	50	4	18	168761.6	168761.6	0.00%					32	4	74.03	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%					15	3	0.58	TCLSLT
ABB026_6-6	6	6	6	7116.9	7116.9	0.21%					15	3	1.27	TCLSLT
ABB036_6-6	6	6	6	7644.4	7644.4	0.08%					20	4	0.77	TCLSLT
ABB046_6-6	6	6	6	8282.3	8282.3	0.22%					15	3	1.95	TCLSLT
ABB056_6-6	6	6	6	8227.1	8227.1	0.29%					15	3	0.94	TCLSLT
ABB066_6-6	6	6	6	6868.9	6868.9	0.01%					20	4	1.14	TCLSLT
ABB076_6-6	6	6	6	7944.1	7944.1	0.02%					15	3	0.80	TCLSLT
ABB086_6-6	6	6	6	6933.5	6933.5	0.00%					20	4	1.29	TCLSLT
ABB096_6-6	6	6	6	7803.0	7803.0	0.20%					20	4	2.17	TCLSLT
ABB0012_6-6	6	6	12	12403.3	12403.3	0.09%					18	3	1.47	TCLSLT
ABB0212_6-6	6	6	12	14589.2	14589.2	0.05%					24	4	3.29	TCLSLT
ABB0312_6-6	6	6	12	15078.8	15078.8	0.00%					24	4	2.32	TCLSLT
ABB0412_6-6	6	6	12	15453.4	15453.4	0.02%					30	5	5.85	TCLSLT
ABB0512_6-6	6	6	12	15029.5	15029.5	0.07%					18	3	1.76	TCLSLT
ABB0612_6-6	6	6	12	13144.2	13144.2	0.08%					30	5	6.37	TCLSLT
ABB0712_6-6	6	6	12	15523.0	15523.0	0.08%					24	4	3.38	TCLSLT
ABB0812_6-6	6	6	12	13091.0	13091.0	0.58%					30	5	4.61	TCLSLT
ABB0912_6-6	6	6	12	14772.9	14772.9	0.00%					30	5	4.33	TCLSLT
ABB0018_6-6	6	6	18	18385.4	18385.4	0.00%					40	5	13.89	TCLSLT
ABB0218_6-6	6	6	18	20318.1	20318.1	0.00%					24	3	3.55	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%					32	4	14.22	TCLSLT
ABB0418_6-6	6	6	18	23195.1	23195.1	0.16%					32	4	20.56	TCLSLT
ABB0518_6-6	6	6	18	22881.4	22881.4	0.01%					48	6	21.38	TCLSLT
ABB0618_6-6	6	6	18	20656.2	20656.2	0.00%					32	4	15.51	TCLSLT
ABB0718_6-6	6	6	18	22433.8	22433.8	0.06%					24	3	7.00	TCLSLT
ABB0818_6-6	6	6	18	20813.2	20813.2	0.12%					32	4	8.73	TCLSLT
ABB0918_6-6	6	6	18	22349.0	22349.0	0.01%					40	5	36.64	TCLSLT
ABB006_6-12	12	6	6	12926.7	12926.7	0.00%					15	3	1.79	TCLSLT
ABB016_6-12	12	6	6	13331.5	13331.5	0.01%					20	4	2.84	TCLSLT
ABB026_6-12	12	6	6	12268.6	12268.6	0.24%					20	4	2.43	TCLSLT
ABB036_6-12	12	6	6	13151.6	13151.6	0.03%					20	4	1.68	TCLSLT
ABB046_6-12	12	6	6	12862.7	12862.7	0.00%					15	3	1.17	TCLSLT
ABB056_6-12	12	6	6	12514.8	12514.8	0.44%					15	3	1.19	TCLSLT
ABB066_6-12	12	6	6	11861.4	11861.4	0.13%					20	4	2.03	TCLSLT
ABB076_6-12	12	6	6	13880.1	13880.1	0.16%					20	4	6.58	TCLSLT
ABB086_6-12	12	6	6	13731.7	13731.7	0.17%					15	3	4.98	TCLSLT
ABB096_6-12	12	6	6	14613.5	14613.5	0.04%					20	4	15.77	TCLSLT
ABB0012_6-12	12	6	12	24524.2	24524.2	0.16%					30	5	8.67	TCLSLT
ABB0112_6-12	12	6	12	26026.6	26026.6	0.05%					24	4	16.33	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%					24	4	20.09	TCLSLT
ABB0312_6-12	12	6	12	26944.5	26944.5	0.09%					18	3	11.98	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%					18	3	9.28	TCLSLT
ABB0512_6-12	12	6	12	26692.1	26692.1	0.17%					24	4	11.33	TCLSLT
ABB0612_6-12	12	6	12	23924.9	23924.9	0.10%					30	5	11.59	TCLSLT
ABB0712_6-12	12	6	12	28599.8	28599.8	0.00%					36	6	69.97	TCLSLT
ABB0812_6-12	12	6	12	26510.3	26510.3	0.11%					24	4	30.12	TCLSLT
ABB0912_6-12	12	6	12	27769.4	27769.4	0.03%					30	5	27.53	TCLSLT
ABB0018_6-12	12	6	18	36870.9	36870.9	0.00%					24	3	15.42	TCLSLT
ABB0118_6-12	12	6	18	41708.6	41708.6	0.00%					32	4	36.59	TCLSLT
ABB0218_6-12	12	6	18	37584.6	37584.6	0.04%					24	3	90.01	TCLSLT
ABB0318_6-12	12	6	18	38941.3	38941.3	0.05%					32	4	26.46	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%					24	3	9.29	TCLSLT
ABB0518_6-12	12	6	18	41016.7	41016.7	0.00%					48	6	59.87	TCLSLT

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Tabela VII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0618_6-12	12	6	18	37907.8	37907.8	0.08%					32	4	61.46	TCLSLT
ABB0718_6-12	12	6	18	42306.7	42306.7	0.03%					40	5	160.22	TCLSLT
ABB0818_6-12	12	6	18	40347.9	40347.9	0.07%					32	4	187.70	TCLSLT
ABB0918_6-12	12	6	18	41869.6	41869.6	-0.02%					32	4	77.62	TCLSLT
ABB006_6-25	25	6	6	25938.3	25938.3	0.10%					25	5	46.68	TCLSLT
ABB016_6-25	25	6	6	25644.6	25644.6	0.00%					30	6	73.47	TCLSLT
ABB026_6-25	25	6	6	26944.3	26944.3	0.00%					20	4	8.11	TCLSLT
ABB036_6-25	25	6	6	27211.8	27211.8	0.06%					20	4	29.43	TCLSLT
ABB046_6-25	25	6	6	28826.3	28826.3	0.03%					20	4	51.81	TCLSLT
ABB056_6-25	25	6	6	26517.4	26517.4	0.03%					15	3	12.25	TCLSLT
ABB066_6-25	25	6	6	25489.3	25489.3	0.04%					15	3	2.57	TCLSLT
ABB076_6-25	25	6	6	28154.3	28154.3	0.07%					15	3	6.59	TCLSLT
ABB086_6-25	25	6	6	26880.7	26880.7	0.03%					15	3	17.61	TCLSLT
ABB096_6-25	25	6	6	26598.0	26598.0	0.10%					15	3	18.62	TCLSLT
ABB0012_6-25	25	6	12	52860.7	52860.7	0.00%					24	4	72.97	TCLSLT
ABB0112_6-25	25	6	12	53097.6	53097.6	-0.01%					36	6	152.81	TCLSLT
ABB0212_6-25	25	6	12	54296.8	54296.8	0.01%					18	3	29.05	TCLSLT
ABB0312_6-25	25	6	12	53258.8	53258.8	0.21%					24	4	176.98	TCLSLT
ABB0412_6-25	25	6	12	56448.1	56448.1	-0.01%					30	5	157.90	TCLSLT
ABB0512_6-25	25	6	12	52160.3	52160.3	0.05%					24	4	71.81	TCLSLT
ABB0612_6-25	25	6	12	51231.1	51231.1	0.02%					24	4	15.59	TCLSLT
ABB0712_6-25	25	6	12	53109.0	53109.0	0.00%					30	5	93.18	TCLSLT
ABB0812_6-25	25	6	12	51562.6	51562.6	0.01%					24	4	44.82	TCLSLT
ABB0912_6-25	25	6	12	54001.0	54001.0	0.00%					24	4	58.70	TCLSLT
ABB0018_6-25	25	6	18	77162.3	77162.3	0.01%					40	5	280.93	TCLSLT
ABB0118_6-25	25	6	18	79996.5	79996.5	-0.02%					48	6	406.32	TCLSLT
ABB0218_6-25	25	6	18	82243.1	82243.1	0.02%					40	5	282.32	TCLSLT
ABB0318_6-25	25	6	18	80855.7	80892.3	0.02%					56	7	563.55	TCLSLT
ABB0418_6-25	25	6	18	85556.3	85556.3	0.02%					32	4	307.28	TCLSLT
ABB0518_6-25	25	6	18	81562.6	81562.6	0.02%					32	4	259.24	TCLSLT
ABB0618_6-25	25	6	18	76578.9	76578.9	0.02%					32	4	52.10	TCLSLT
ABB0718_6-25	25	6	18	78312.1	78312.1	0.00%					48	6	351.55	TCLSLT
ABB0818_6-25	25	6	18	75621.7	75621.7	0.00%					32	4	143.69	TCLSLT
ABB0918_6-25	25	6	18	81836.1	81836.1	0.01%					32	4	157.06	TCLSLT
ABB006_6-50	50	6	6	50834.7	50834.7	0.02%					25	5	44.49	TCLSLT
ABB016_6-50	50	6	6	50945.5	50945.5	0.03%					20	4	50.09	TCLSLT
ABB026_6-50	50	6	6	52528.6	52528.6	0.01%					20	4	57.59	TCLSLT
ABB036_6-50	50	6	6	51904.1	51904.1	0.02%					15	3	15.80	TCLSLT
ABB046_6-50	50	6	6	54378.9	54378.9	0.00%					15	3	64.88	TCLSLT
ABB056_6-50	50	6	6	53099.3	53099.3	0.04%					25	5	57.43	TCLSLT
ABB066_6-50	50	6	6	52436.7	52436.7	0.01%					25	5	86.15	TCLSLT
ABB076_6-50	50	6	6	54128.8	54128.8	0.00%					15	3	6.17	TCLSLT
ABB086_6-50	50	6	6	51234.6	51234.6	0.04%					20	4	44.61	TCLSLT
ABB096_6-50	50	6	6	50888.6	50888.6	0.01%					20	4	35.75	TCLSLT
ABB0012_6-50	50	6	12	102828.9	102828.9	0.02%					12	2	67.11	TCLSLT
ABB0112_6-50	50	6	12	101944.9	101944.9	0.01%					30	5	115.06	TCLSLT
ABB0212_6-50	50	6	12	105743.8	105743.8	-0.01%					18	3	124.42	TCLSLT
ABB0312_6-50	50	6	12	103014.7	103014.7	0.02%					30	5	102.73	TCLSLT
ABB0412_6-50	50	6	12	110338.5	110338.5	0.01%					36	6	198.97	TCLSLT
ABB0512_6-50	50	6	12	105915.5	105915.5	0.00%					30	5	97.35	TCLSLT
ABB0612_6-50	50	6	12	102922.1	102922.1	-0.02%					24	4	165.50	TCLSLT
ABB0712_6-50	50	6	12	107882.4	107882.4	0.01%					30	5	102.29	TCLSLT
ABB0812_6-50	50	6	12	100317.4	100317.4	0.05%					18	3	83.88	TCLSLT
ABB0912_6-50	50	6	12	102789.3	102789.3	0.03%					18	3	64.56	TCLSLT
ABB0018_6-50	50	6	18	153496.2	153496.2	0.01%					48	6	420.42	TCLSLT
ABB0118_6-50	50	6	18	151578.3	151578.3	0.00%					40	5	250.05	TCLSLT
ABB0218_6-50	50	6	18	155207.9	155207.9	-0.01%					48	6	396.24	TCLSLT
ABB0318_6-50	50	6	18	154820.6	154820.6	0.00%					40	5	322.88	TCLSLT
ABB0418_6-50	50	6	18	165811.8	165839.1	0.00%					40	5	407.80	TCLSLT
ABB0518_6-50	50	6	18	156150.2	156150.2	0.00%					56	7	482.83	TCLSLT
ABB0618_6-50	50	6	18	155468.5	155468.5	-0.01%					40	5	389.27	TCLSLT
ABB0718_6-50	50	6	18	159468.6	159468.6	0.01%					32	4	152.38	TCLSLT
ABB0818_6-50	50	6	18	151695.0	151695.0	0.00%					48	6	394.24	TCLSLT
ABB0918_6-50	50	6	18	154658.6	154658.6	0.00%					32	4	253.48	TCLSLT

Tabela VIII: Resultados por instância ($m/r/n$) - *HCGFO*

Instância	N	R	M	LI	LS	gap	HCGtime	THtime	Heur. Const.	FOtempo	FOiter	FOrounds	Tempo Total	Classe
NAA006_2-6	6	2	6	13637.5	13637.5	1.06%					10	2	0.49	NCHSHT
NAA016_2-6	6	2	6	10963.4	10963.4	1.10%					10	2	0.50	NCHSHT
NAA026_2-6	6	2	6	14368.7	14368.7	0.64%					15	3	0.48	NCHSHT
NAA036_2-6	6	2	6	14675.0	14675.0	0.57%					15	3	0.55	NCHSHT
NAA046_2-6	6	2	6	15674.7	15674.7	1.83%					15	3	0.63	NCHSHT
NAA056_2-6	6	2	6	17033.5	17033.5	5.23%					10	2	0.41	NCHSHT
NAA066_2-6	6	2	6	16135.1	16135.1	5.01%					15	3	0.88	NCHSHT
NAA076_2-6	6	2	6	16170.5	16170.5	0.33%					15	3	0.54	NCHSHT
NAA086_2-6	6	2	6	12980.2	12980.2	2.63%					15	3	0.47	NCHSHT
NAA096_2-6	6	2	6	12810.1	12810.1	0.90%					20	4	0.54	NCHSHT
NAA0012_2-6	6	2	12	24112.6	24112.6	1.39%					24	4	2.13	NCHSHT
NAA0112_2-6	6	2	12	23135.5	23135.5	0.97%					36	6	2.86	NCHSHT
NAA0212_2-6	6	2	12	26283.1	26283.1	0.19%					18	3	1.36	NCHSHT
NAA0312_2-6	6	2	12	25874.7	25874.7	0.32%					42	7	2.44	NCHSHT
NAA0412_2-6	6	2	12	27197.4	27197.4	6.37%					30	5	4.34	NCHSHT
NAA0512_2-6	6	2	12	30182.5	30182.5	1.30%					36	6	2.99	NCHSHT
NAA0612_2-6	6	2	12	27746.1	27746.1	2.74%					24	4	1.99	NCHSHT
NAA0712_2-6	6	2	12	26493.8	26493.8	0.18%					24	4	2.23	NCHSHT
NAA0812_2-6	6	2	12	22096.1	22096.1	2.09%					12	2	1.40	NCHSHT
NAA0912_2-6	6	2	12	26841.4	26841.4	2.33%					18	3	1.83	NCHSHT
NAA0018_2-6	6	2	18	32551.3	32551.3	0.81%					32	4	7.36	NCHSHT
NAA0118_2-6	6	2	18	33245.6	33245.6	0.89%					32	4	6.34	NCHSHT
NAA0218_2-6	6	2	18	38995.1	38995.1	1.09%					32	4	4.18	NCHSHT
NAA0318_2-6	6	2	18	39338.3	39338.3	0.75%					48	6	7.00	NCHSHT
NAA0418_2-6	6	2	18	36337.8	36337.8	1.42%					56	7	13.86	NCHSHT
NAA0518_2-6	6	2	18	41827.4	41827.4	1.08%					48	6	7.30	NCHSHT
NAA0618_2-6	6	2	18	38072.9	38072.9	0.23%					24	3	4.74	NCHSHT
NAA0718_2-6	6	2	18	38613.0	38613.0	1.27%					32	4	6.27	NCHSHT
NAA0818_2-6	6	2	18	31385.5	31385.5	0.43%					32	4	3.31	NCHSHT
NAA0918_2-6	6	2	18	35469.1	35469.1	0.89%					48	6	4.86	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%					10	2	0.67	NCHSHT
NAA016_2-12	12	2	6	23669.7	23669.7	0.01%					25	5	1.45	NCHSHT
NAA026_2-12	12	2	6	25321.1	25321.1	2.35%					15	3	0.97	NCHSHT
NAA036_2-12	12	2	6	29204.2	29204.2	0.83%					15	3	1.04	NCHSHT
NAA046_2-12	12	2	6	24869.3	24869.3	0.29%					20	4	1.05	NCHSHT
NAA056_2-12	12	2	6	28938.4	28938.4	1.46%					10	2	0.82	NCHSHT
NAA066_2-12	12	2	6	25388.1	25388.1	2.06%					10	2	0.77	NCHSHT
NAA076_2-12	12	2	6	25225.7	25225.7	0.90%					20	4	1.21	NCHSHT
NAA086_2-12	12	2	6	22924.5	22924.5	0.17%					15	3	0.75	NCHSHT
NAA096_2-12	12	2	6	26778.7	26778.7	1.03%					25	5	1.61	NCHSHT
NAA0012_2-12	12	2	12	40464.4	40464.4	0.18%					18	3	2.16	NCHSHT
NAA0112_2-12	12	2	12	41662.7	41662.7	0.91%					18	3	2.66	NCHSHT
NAA0212_2-12	12	2	12	43757.0	43757.0	1.71%					24	4	3.89	NCHSHT
NAA0312_2-12	12	2	12	53838.3	53838.3	2.61%					24	4	4.78	NCHSHT
NAA0412_2-12	12	2	12	45106.5	45106.5	0.51%					24	4	2.68	NCHSHT
NAA0512_2-12	12	2	12	52080.3	52080.3	1.31%					24	4	4.69	NCHSHT
NAA0612_2-12	12	2	12	45697.7	45697.7	1.78%					30	5	4.09	NCHSHT
NAA0712_2-12	12	2	12	47088.0	47088.0	0.90%					18	3	3.01	NCHSHT
NAA0812_2-12	12	2	12	42078.3	42078.3	1.31%					18	3	2.55	NCHSHT
NAA0912_2-12	12	2	12	50529.6	50529.6	1.83%					18	3	3.88	NCHSHT
NAA0018_2-12	12	2	18	59879.7	59879.7	0.27%					24	3	6.93	NCHSHT
NAA0118_2-12	12	2	18	61733.4	61733.4	0.64%					32	4	9.63	NCHSHT
NAA0218_2-12	12	2	18	65377.1	65377.1	1.32%					56	7	18.80	NCHSHT
NAA0318_2-12	12	2	18	74999.6	74999.6	0.48%					32	4	15.91	NCHSHT
NAA0418_2-12	12	2	18	67552.0	67552.0	0.42%					24	3	8.33	NCHSHT
NAA0518_2-12	12	2	18	74045.1	74045.1	0.80%					40	5	22.58	NCHSHT
NAA0618_2-12	12	2	18	65138.9	65138.9	0.40%					48	6	12.26	NCHSHT
NAA0718_2-12	12	2	18	67357.6	67357.6	0.07%					32	4	4.22	NCHSHT
NAA0818_2-12	12	2	18	64111.1	64111.1	0.23%					32	4	9.33	NCHSHT
NAA0918_2-12	12	2	18	72501.1	72501.1	0.50%					40	5	19.17	NCHSHT
NAA006_2-25	25	2	6	47710.7	47710.7	0.13%					10	2	1.43	NCHSHT
NAA016_2-25	25	2	6	48870.2	48870.2	0.40%					10	2	1.36	NCHSHT
NAA026_2-25	25	2	6	50989.0	50989.0	0.42%					20	4	2.65	NCHSHT
NAA036_2-25	25	2	6	52946.6	52946.6	0.54%					10	2	1.62	NCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_2-25	25	2	6	53551.6	53551.6	0.03%					15	3	2.05	NCHSHT
NAA056_2-25	25	2	6	56772.1	56772.1	0.67%					15	3	2.82	NCHSHT
NAA066_2-25	25	2	6	46023.6	46023.6	0.16%					15	3	1.53	NCHSHT
NAA076_2-25	25	2	6	51433.8	51433.8	0.20%					15	3	2.94	NCHSHT
NAA086_2-25	25	2	6	53877.4	53877.4	0.05%					20	4	2.12	NCHSHT
NAA096_2-25	25	2	6	58995.8	58995.8	0.10%					10	2	1.77	NCHSHT
NAA0012_2-25	25	2	12	88617.1	88617.1	0.19%					30	5	7.32	NCHSHT
NAA0112_2-25	25	2	12	94082.0	94082.0	0.35%					24	4	11.00	NCHSHT
NAA0212_2-25	25	2	12	90601.9	90601.9	0.38%					24	4	10.80	NCHSHT
NAA0312_2-25	25	2	12	94486.3	94486.3	0.29%					30	5	16.23	NCHSHT
NAA0412_2-25	25	2	12	92865.7	92865.7	0.01%					30	5	6.27	NCHSHT
NAA0512_2-25	25	2	12	106377.5	106377.5	0.73%					24	4	12.10	NCHSHT
NAA0612_2-25	25	2	12	90085.2	90085.2	0.36%					24	4	10.10	NCHSHT
NAA0712_2-25	25	2	12	96197.6	96197.6	0.36%					24	4	9.36	NCHSHT
NAA0812_2-25	25	2	12	98031.9	98031.9	0.12%					36	6	11.24	NCHSHT
NAA0912_2-25	25	2	12	103619.1	103619.1	0.43%					36	6	21.53	NCHSHT
NAA0018_2-25	25	2	18	128847.1	128847.1	0.00%					40	5	32.32	NCHSHT
NAA0118_2-25	25	2	18	132843.3	132843.3	0.28%					32	4	20.60	NCHSHT
NAA0218_2-25	25	2	18	130256.3	130256.3	0.16%					40	5	34.26	NCHSHT
NAA0318_2-25	25	2	18	142250.1	142250.1	0.02%					32	4	33.40	NCHSHT
NAA0418_2-25	25	2	18	136742.5	136742.5	0.18%					32	4	35.00	NCHSHT
NAA0518_2-25	25	2	18	149096.2	149096.2	0.29%					32	4	55.43	NCHSHT
NAA0618_2-25	25	2	18	126973.3	126973.3	0.19%					32	4	34.25	NCHSHT
NAA0718_2-25	25	2	18	141072.0	141072.0	0.31%					32	4	55.32	NCHSHT
NAA0818_2-25	25	2	18	139361.6	139361.6	0.05%					32	4	32.80	NCHSHT
NAA0918_2-25	25	2	18	148104.2	148104.2	0.21%					40	5	51.17	NCHSHT
NAA006_2-50	50	2	6	94162.4	94162.4	0.17%					10	2	3.65	NCHSHT
NAA016_2-50	50	2	6	97938.2	97938.2	0.04%					15	3	2.58	NCHSHT
NAA026_2-50	50	2	6	94534.9	94534.9	0.11%					10	2	2.81	NCHSHT
NAA036_2-50	50	2	6	102700.3	102700.3	0.21%					10	2	2.81	NCHSHT
NAA046_2-50	50	2	6	106632.4	106632.4	0.10%					10	2	5.16	NCHSHT
NAA056_2-50	50	2	6	104507.6	104507.6	0.10%					20	4	7.21	NCHSHT
NAA066_2-50	50	2	6	94629.5	94629.5	0.21%					15	3	3.71	NCHSHT
NAA076_2-50	50	2	6	101554.2	101554.2	0.16%					10	2	5.91	NCHSHT
NAA086_2-50	50	2	6	99680.4	99680.4	0.10%					15	3	3.86	NCHSHT
NAA096_2-50	50	2	6	102925.7	102925.7	0.09%					15	3	3.49	NCHSHT
NAA0012_2-50	50	2	12	176397.6	176397.6	0.05%					24	4	11.92	NCHSHT
NAA0112_2-50	50	2	12	184182.4	184182.4	0.03%					24	4	13.55	NCHSHT
NAA0212_2-50	50	2	12	176352.1	176352.1	0.09%					24	4	20.97	NCHSHT
NAA0312_2-50	50	2	12	189823.5	189823.5	0.13%					30	5	17.02	NCHSHT
NAA0412_2-50	50	2	12	194840.3	194840.3	0.32%					24	4	42.45	NCHSHT
NAA0512_2-50	50	2	12	193116.0	193116.0	0.27%					24	4	24.13	NCHSHT
NAA0612_2-50	50	2	12	174251.2	174251.2	0.10%					24	4	12.90	NCHSHT
NAA0712_2-50	50	2	12	184106.8	184106.8	0.06%					24	4	24.81	NCHSHT
NAA0812_2-50	50	2	12	179309.5	179309.5	0.09%					18	3	9.29	NCHSHT
NAA0912_2-50	50	2	12	189875.3	189875.3	0.07%					30	5	30.77	NCHSHT
NAA0018_2-50	50	2	18	259332.5	259332.5	0.13%					32	4	51.11	NCHSHT
NAA0118_2-50	50	2	18	267650.1	267650.1	0.01%					24	3	22.98	NCHSHT
NAA0218_2-50	50	2	18	255784.6	255784.6	0.09%					32	4	41.97	NCHSHT
NAA0318_2-50	50	2	18	279136.5	279136.5	0.12%					32	4	49.34	NCHSHT
NAA0418_2-50	50	2	18	283279.6	283279.6	0.03%					24	3	72.21	NCHSHT
NAA0518_2-50	50	2	18	282768.4	282768.4	0.11%					32	4	42.46	NCHSHT
NAA0618_2-50	50	2	18	255891.1	255891.1	0.05%					40	5	43.55	NCHSHT
NAA0718_2-50	50	2	18	268755.9	268755.9	0.04%					24	3	40.38	NCHSHT
NAA0818_2-50	50	2	18	262932.0	262932.0	0.02%					32	4	46.95	NCHSHT
NAA0918_2-50	50	2	18	277391.8	277391.8	0.07%					32	4	64.89	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%					15	3	0.72	NCHSHT
NAA016_4-6	6	4	6	12021.3	12021.3	7.67%					15	3	2.00	NCHSHT
NAA026_4-6	6	4	6	11669.5	11669.5	0.36%					15	3	1.02	NCHSHT
NAA036_4-6	6	4	6	12249.2	12249.2	0.82%					15	3	0.93	NCHSHT
NAA046_4-6	6	4	6	9742.8	9742.8	0.00%					20	4	2.56	NCHSHT
NAA056_4-6	6	4	6	15068.9	15068.9	1.55%					15	3	1.25	NCHSHT
NAA066_4-6	6	4	6	12380.1	12380.1	5.98%					20	4	1.67	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%					20	4	0.83	NCHSHT
NAA086_4-6	6	4	6	9790.6	9790.6	1.15%					25	5	0.84	NCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_4-6	6	4	6	14361.2	14361.2	0.62%					15	3	0.89	NCHSHT
NAA0012_4-6	6	4	12	17392.5	17392.5	0.99%					24	4	2.98	NCHSHT
NAA0112_4-6	6	4	12	23755.9	23755.9	1.16%					36	6	6.89	NCHSHT
NAA0212_4-6	6	4	12	22019.8	22019.8	0.39%					24	4	5.10	NCHSHT
NAA0312_4-6	6	4	12	24540.5	24540.5	1.02%					30	5	3.89	NCHSHT
NAA0412_4-6	6	4	12	21795.6	21795.6	0.13%					24	4	10.59	NCHSHT
NAA0512_4-6	6	4	12	29467.1	29467.1	1.89%					24	4	4.53	NCHSHT
NAA0612_4-6	6	4	12	20871.9	20871.9	1.45%					24	4	3.83	NCHSHT
NAA0712_4-6	6	4	12	23670.0	23670.0	0.72%					18	3	4.54	NCHSHT
NAA0812_4-6	6	4	12	19002.4	19002.4	0.36%					30	5	3.24	NCHSHT
NAA0912_4-6	6	4	12	25815.5	25815.5	1.85%					18	3	3.36	NCHSHT
NAA0018_4-6	6	4	18	26657.2	26657.2	0.27%					32	4	10.36	NCHSHT
NAA0118_4-6	6	4	18	31978.9	31978.9	0.25%					40	5	26.58	NCHSHT
NAA0218_4-6	6	4	18	31843.1	31843.1	0.73%					40	5	13.97	NCHSHT
NAA0318_4-6	6	4	18	36878.6	36878.6	0.41%					40	5	9.45	NCHSHT
NAA0418_4-6	6	4	18	33478.9	33478.9	1.24%					40	5	18.49	NCHSHT
NAA0518_4-6	6	4	18	41480.1	41480.1	0.90%					48	6	17.91	NCHSHT
NAA0618_4-6	6	4	18	32405.7	32405.7	0.79%					56	7	14.30	NCHSHT
NAA0718_4-6	6	4	18	35577.8	35577.8	1.05%					32	4	8.35	NCHSHT
NAA0818_4-6	6	4	18	27227.8	27227.8	0.14%					32	4	9.41	NCHSHT
NAA0918_4-6	6	4	18	37445.1	37445.1	0.44%					40	5	15.29	NCHSHT
NAA006_4-12	12	4	6	19830.8	19830.8	0.48%					15	3	1.78	NCHSHT
NAA016_4-12	12	4	6	22891.4	22891.4	0.13%					20	4	5.84	NCHSHT
NAA026_4-12	12	4	6	18870.2	18870.2	2.23%					10	2	1.12	NCHSHT
NAA036_4-12	12	4	6	20245.6	20245.6	0.34%					20	4	2.29	NCHSHT
NAA046_4-12	12	4	6	23040.5	23040.5	1.99%					20	4	2.41	NCHSHT
NAA056_4-12	12	4	6	24252.3	24252.3	2.71%					15	3	2.00	NCHSHT
NAA066_4-12	12	4	6	20780.3	20780.3	1.02%					20	4	2.73	NCHSHT
NAA076_4-12	12	4	6	20751.0	20751.0	0.00%					20	4	6.78	NCHSHT
NAA086_4-12	12	4	6	22431.3	22431.3	0.45%					20	4	1.83	NCHSHT
NAA096_4-12	12	4	6	21777.1	21777.1	1.95%					15	3	3.02	NCHSHT
NAA0012_4-12	12	4	12	35780.2	35780.2	0.25%					18	3	7.64	NCHSHT
NAA0112_4-12	12	4	12	40743.9	40743.9	0.64%					30	5	25.78	NCHSHT
NAA0212_4-12	12	4	12	37045.3	37045.3	0.56%					30	5	7.31	NCHSHT
NAA0312_4-12	12	4	12	40156.0	40156.0	1.10%					24	4	16.68	NCHSHT
NAA0412_4-12	12	4	12	42062.4	42062.4	0.88%					30	5	12.84	NCHSHT
NAA0512_4-12	12	4	12	45444.3	45444.3	1.35%					30	5	30.20	NCHSHT
NAA0612_4-12	12	4	12	39584.2	39584.2	2.16%					24	4	9.20	NCHSHT
NAA0712_4-12	12	4	12	41503.8	41503.8	0.20%					24	4	17.00	NCHSHT
NAA0812_4-12	12	4	12	41362.5	41362.5	0.41%					18	3	3.05	NCHSHT
NAA0912_4-12	12	4	12	44121.0	44121.0	1.35%					30	5	26.04	NCHSHT
NAA0018_4-12	12	4	18	54019.1	54019.1	0.07%					32	4	22.80	NCHSHT
NAA0118_4-12	12	4	18	59493.3	59493.3	0.29%					32	4	34.25	NCHSHT
NAA0218_4-12	12	4	18	53412.1	53412.1	0.02%					32	4	8.10	NCHSHT
NAA0318_4-12	12	4	18	61199.4	61199.4	0.42%					32	4	36.43	NCHSHT
NAA0418_4-12	12	4	18	61945.9	61945.9	0.86%					48	6	58.66	NCHSHT
NAA0518_4-12	12	4	18	66169.0	66169.0	1.00%					32	4	39.68	NCHSHT
NAA0618_4-12	12	4	18	58660.5	58660.5	0.69%					32	4	14.03	NCHSHT
NAA0718_4-12	12	4	18	63733.3	63733.3	0.14%					64	8	50.44	NCHSHT
NAA0818_4-12	12	4	18	62690.8	62690.8	0.25%					40	5	13.13	NCHSHT
NAA0918_4-12	12	4	18	62828.0	62828.0	0.27%					40	5	40.74	NCHSHT
NAA006_4-25	25	4	6	37111.4	37111.4	0.28%					20	4	7.30	NCHSHT
NAA016_4-25	25	4	6	45208.0	45208.0	0.44%					20	4	5.03	NCHSHT
NAA026_4-25	25	4	6	42643.8	42643.8	0.66%					15	3	12.00	NCHSHT
NAA036_4-25	25	4	6	42254.8	42254.8	0.59%					15	3	7.97	NCHSHT
NAA046_4-25	25	4	6	43221.7	43221.7	0.92%					25	5	13.74	NCHSHT
NAA056_4-25	25	4	6	47118.7	47118.7	0.41%					25	5	13.93	NCHSHT
NAA066_4-25	25	4	6	37900.3	37900.3	0.57%					15	3	2.52	NCHSHT
NAA076_4-25	25	4	6	43103.9	43103.9	0.88%					15	3	10.25	NCHSHT
NAA086_4-25	25	4	6	39779.8	39779.8	0.65%					15	3	7.82	NCHSHT
NAA096_4-25	25	4	6	45624.0	45624.0	0.77%					20	4	15.38	NCHSHT
NAA0012_4-25	25	4	12	74717.3	74717.3	0.17%					24	4	25.18	NCHSHT
NAA0112_4-25	25	4	12	82704.5	82704.5	0.35%					24	4	36.49	NCHSHT
NAA0212_4-25	25	4	12	78218.3	78218.3	0.29%					36	6	61.32	NCHSHT
NAA0312_4-25	25	4	12	83080.2	83080.2	0.49%					24	4	24.63	NCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_4-25	25	4	12	83412.7	83412.7	0.23%					30	5	36.67	NCHSHT
NAA0512_4-25	25	4	12	86609.3	86609.3	0.59%					18	3	35.89	NCHSHT
NAA0612_4-25	25	4	12	73943.8	73943.8	0.80%					24	4	22.23	NCHSHT
NAA0712_4-25	25	4	12	83337.7	83337.7	0.13%					18	3	24.20	NCHSHT
NAA0812_4-25	25	4	12	77929.7	77929.7	0.09%					30	5	32.05	NCHSHT
NAA0912_4-25	25	4	12	84220.6	84220.6	0.14%					24	4	10.87	NCHSHT
NAA0018_4-25	25	4	18	108761.5	108761.5	0.17%					40	5	41.14	NCHSHT
NAA0118_4-25	25	4	18	120501.2	120501.2	0.00%					32	4	76.82	NCHSHT
NAA0218_4-25	25	4	18	117040.2	117040.2	0.19%					40	5	105.41	NCHSHT
NAA0318_4-25	25	4	18	121208.4	121208.4	0.15%					48	6	72.74	NCHSHT
NAA0418_4-25	25	4	18	123831.0	123831.0	0.36%					32	4	36.57	NCHSHT
NAA0518_4-25	25	4	18	125207.6	125207.6	0.24%					40	5	64.66	NCHSHT
NAA0618_4-25	25	4	18	110480.6	110480.6	0.14%					32	4	30.79	NCHSHT
NAA0718_4-25	25	4	18	121981.3	121981.3	0.08%					40	5	75.08	NCHSHT
NAA0818_4-25	25	4	18	112381.5	112381.5	0.14%					24	3	48.51	NCHSHT
NAA0918_4-25	25	4	18	124116.6	124116.6	0.10%					40	5	33.05	NCHSHT
NAA006_4-50	50	4	6	80549.2	80549.2	0.04%					15	3	10.42	NCHSHT
NAA016_4-50	50	4	6	83543.6	83543.6	0.04%					15	3	9.37	NCHSHT
NAA026_4-50	50	4	6	85706.4	85706.4	0.06%					15	3	9.49	NCHSHT
NAA036_4-50	50	4	6	86451.4	86451.4	0.14%					15	3	13.02	NCHSHT
NAA046_4-50	50	4	6	92868.1	92868.1	0.50%					15	3	23.05	NCHSHT
NAA056_4-50	50	4	6	87646.6	87646.6	0.42%					20	4	27.81	NCHSHT
NAA066_4-50	50	4	6	78939.6	78939.6	0.11%					10	2	4.89	NCHSHT
NAA076_4-50	50	4	6	82497.3	82497.3	0.17%					15	3	14.24	NCHSHT
NAA086_4-50	50	4	6	82346.8	82346.8	0.18%					20	4	11.73	NCHSHT
NAA096_4-50	50	4	6	93653.1	93653.1	0.11%					10	2	3.65	NCHSHT
NAA0012_4-50	50	4	12	158470.4	158470.4	0.11%					24	4	50.40	NCHSHT
NAA0112_4-50	50	4	12	156413.2	156413.2	0.04%					24	4	22.00	NCHSHT
NAA0212_4-50	50	4	12	157744.0	157744.0	0.07%					18	3	51.18	NCHSHT
NAA0312_4-50	50	4	12	165201.6	165201.6	0.15%					24	4	40.96	NCHSHT
NAA0412_4-50	50	4	12	169463.9	169463.9	0.10%					18	3	44.51	NCHSHT
NAA0512_4-50	50	4	12	163886.8	163886.8	0.16%					30	5	72.58	NCHSHT
NAA0612_4-50	50	4	12	149671.8	149671.8	0.06%					24	4	13.18	NCHSHT
NAA0712_4-50	50	4	12	160500.3	160500.3	0.04%					24	4	50.83	NCHSHT
NAA0812_4-50	50	4	12	156223.6	156223.6	0.13%					18	3	20.59	NCHSHT
NAA0912_4-50	50	4	12	171666.5	171666.5	0.05%					12	2	15.65	NCHSHT
NAA0018_4-50	50	4	18	227103.2	227103.2	0.06%					40	5	82.74	NCHSHT
NAA0118_4-50	50	4	18	231350.4	231350.4	0.02%					32	4	38.93	NCHSHT
NAA0218_4-50	50	4	18	236329.6	236329.6	0.11%					32	4	92.94	NCHSHT
NAA0318_4-50	50	4	18	241977.6	241977.6	0.02%					24	3	47.29	NCHSHT
NAA0418_4-50	50	4	18	251564.8	251564.8	0.04%					40	5	88.23	NCHSHT
NAA0518_4-50	50	4	18	242774.1	242774.1	0.07%					32	4	81.68	NCHSHT
NAA0618_4-50	50	4	18	223270.4	223270.4	0.04%					40	5	53.73	NCHSHT
NAA0718_4-50	50	4	18	239462.0	239462.0	0.04%					48	6	136.09	NCHSHT
NAA0818_4-50	50	4	18	226878.0	226878.0	0.01%					32	4	55.27	NCHSHT
NAA0918_4-50	50	4	18	250575.9	250575.9	0.05%					24	3	62.95	NCHSHT
NAA006_6-6	6	6	6	9329.6	9329.6	2.83%					15	3	1.51	NCHSHT
NAA016_6-6	6	6	6	12121.1	12121.1	0.00%					20	4	2.89	NCHSHT
NAA026_6-6	6	6	6	11513.4	11513.4	3.05%					15	3	1.31	NCHSHT
NAA036_6-6	6	6	6	13784.8	13784.8	1.19%					20	4	1.52	NCHSHT
NAA046_6-6	6	6	6	13475.5	13475.5	0.92%					25	5	2.29	NCHSHT
NAA056_6-6	6	6	6	15886.6	15886.6	1.58%					15	3	1.45	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%					20	4	1.55	NCHSHT
NAA076_6-6	6	6	6	14199.2	14199.2	0.79%					20	4	2.17	NCHSHT
NAA086_6-6	6	6	6	13557.5	13557.5	0.78%					15	3	1.62	NCHSHT
NAA096_6-6	6	6	6	15332.1	15332.1	1.19%					30	6	3.71	NCHSHT
NAA0012_6-6	6	6	12	19160.4	19160.4	1.34%					36	6	9.63	NCHSHT
NAA0112_6-6	6	6	12	22748.4	22748.4	0.15%					30	5	14.13	NCHSHT
NAA0212_6-6	6	6	12	23038.8	23038.8	0.40%					36	6	7.10	NCHSHT
NAA0312_6-6	6	6	12	26146.9	26146.9	0.33%					24	4	6.74	NCHSHT
NAA0412_6-6	6	6	12	25957.5	25957.5	1.84%					24	4	9.83	NCHSHT
NAA0512_6-6	6	6	12	26907.3	26907.3	0.85%					24	4	6.48	NCHSHT
NAA0612_6-6	6	6	12	22200.0	22200.0	1.79%					24	4	6.52	NCHSHT
NAA0712_6-6	6	6	12	27382.9	27382.9	0.63%					36	6	8.58	NCHSHT
NAA0812_6-6	6	6	12	25457.8	25457.8	3.03%					30	5	10.97	NCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0912_6-6	6	6	12	29754.5	29754.5	6.49%					30	5	20.44	NCHSHT
NAA0018_6-6	6	6	18	28270.9	28270.9	0.90%					48	6	33.40	NCHSHT
NAA0118_6-6	6	6	18	34875.1	34875.1	0.60%					40	5	32.88	NCHSHT
NAA0218_6-6	6	6	18	31441.7	31441.7	0.21%					32	4	18.28	NCHSHT
NAA0318_6-6	6	6	18	36404.4	36404.4	0.48%					24	3	23.65	NCHSHT
NAA0418_6-6	6	6	18	37358.8	37358.8	0.95%					32	4	54.98	NCHSHT
NAA0518_6-6	6	6	18	41424.8	41424.8	0.73%					32	4	29.64	NCHSHT
NAA0618_6-6	6	6	18	32339.9	32339.9	0.29%					40	5	26.04	NCHSHT
NAA0718_6-6	6	6	18	39999.2	39999.2	0.46%					32	4	28.02	NCHSHT
NAA0818_6-6	6	6	18	39679.1	39679.1	0.49%					48	6	48.33	NCHSHT
NAA0918_6-6	6	6	18	42524.2	42524.2	0.17%					64	8	56.35	NCHSHT
NAA006_6-12	12	6	6	20347.1	20347.1	1.64%					20	4	5.76	NCHSHT
NAA016_6-12	12	6	6	20353.4	20353.4	0.68%					15	3	5.24	NCHSHT
NAA026_6-12	12	6	6	19411.8	19411.8	2.33%					20	4	7.12	NCHSHT
NAA036_6-12	12	6	6	20056.4	20056.4	0.32%					15	3	1.86	NCHSHT
NAA046_6-12	12	6	6	18769.1	18769.1	1.48%					15	3	3.57	NCHSHT
NAA056_6-12	12	6	6	20544.9	20544.9	3.21%					15	3	4.94	NCHSHT
NAA066_6-12	12	6	6	18060.0	18060.0	0.75%					15	3	1.84	NCHSHT
NAA076_6-12	12	6	6	23078.9	23078.9	0.00%					25	5	5.70	NCHSHT
NAA086_6-12	12	6	6	20273.9	20273.9	0.00%					20	4	7.02	NCHSHT
NAA096_6-12	12	6	6	23890.7	23890.7	1.40%					20	4	7.53	NCHSHT
NAA0012_6-12	12	6	12	37507.7	37507.7	0.68%					30	5	21.55	NCHSHT
NAA0112_6-12	12	6	12	39629.5	39629.5	0.85%					42	7	22.73	NCHSHT
NAA0212_6-12	12	6	12	37158.7	37158.7	0.90%					24	4	33.67	NCHSHT
NAA0312_6-12	12	6	12	40475.9	40475.9	1.95%					24	4	13.38	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%					30	5	18.08	NCHSHT
NAA0512_6-12	12	6	12	41183.2	41183.2	0.73%					30	5	29.52	NCHSHT
NAA0612_6-12	12	6	12	34353.5	34353.5	0.21%					24	4	7.19	NCHSHT
NAA0712_6-12	12	6	12	46340.4	46340.4	1.52%					24	4	38.91	NCHSHT
NAA0812_6-12	12	6	12	38177.8	38177.8	0.20%					30	5	29.07	NCHSHT
NAA0912_6-12	12	6	12	43929.5	43929.5	1.79%					30	5	28.00	NCHSHT
NAA0018_6-12	12	6	18	56229.3	56229.3	0.12%					32	4	58.66	NCHSHT
NAA0118_6-12	12	6	18	60993.0	60993.0	0.35%					40	5	46.26	NCHSHT
NAA0218_6-12	12	6	18	54708.6	54708.6	0.49%					40	5	54.38	NCHSHT
NAA0318_6-12	12	6	18	56868.3	56868.3	0.22%					40	5	26.44	NCHSHT
NAA0418_6-12	12	6	18	52193.8	52193.8	0.19%					40	5	36.84	NCHSHT
NAA0518_6-12	12	6	18	61734.7	61734.7	0.43%					40	5	38.42	NCHSHT
NAA0618_6-12	12	6	18	53842.5	53842.5	0.02%					40	5	22.09	NCHSHT
NAA0718_6-12	12	6	18	66917.5	66917.5	0.44%					48	6	87.41	NCHSHT
NAA0818_6-12	12	6	18	56738.8	56738.8	0.42%					56	7	58.96	NCHSHT
NAA0918_6-12	12	6	18	64928.4	64928.4	0.54%					32	4	46.93	NCHSHT
NAA006_6-25	25	6	6	39339.9	39339.9	1.00%					15	3	30.98	NCHSHT
NAA016_6-25	25	6	6	39518.4	39518.4	0.26%					15	3	13.74	NCHSHT
NAA026_6-25	25	6	6	41292.5	41292.5	0.53%					20	4	13.92	NCHSHT
NAA036_6-25	25	6	6	40491.7	40491.7	0.44%					15	3	9.13	NCHSHT
NAA046_6-25	25	6	6	42809.5	42809.5	1.34%					15	3	34.88	NCHSHT
NAA056_6-25	25	6	6	40062.0	40062.0	0.39%					20	4	15.25	NCHSHT
NAA066_6-25	25	6	6	38478.7	38478.7	0.12%					20	4	12.73	NCHSHT
NAA076_6-25	25	6	6	42376.1	42376.1	0.14%					25	5	10.20	NCHSHT
NAA086_6-25	25	6	6	40291.1	40291.1	0.45%					15	3	9.88	NCHSHT
NAA096_6-25	25	6	6	41951.9	41951.9	0.57%					20	4	11.50	NCHSHT
NAA0012_6-25	25	6	12	76479.0	76479.0	0.41%					24	4	38.66	NCHSHT
NAA0112_6-25	25	6	12	78774.7	78774.7	0.27%					36	6	77.25	NCHSHT
NAA0212_6-25	25	6	12	80147.7	80147.7	0.65%					24	4	54.22	NCHSHT
NAA0312_6-25	25	6	12	77279.9	77279.9	0.00%					30	5	55.04	NCHSHT
NAA0412_6-25	25	6	12	80773.1	80773.1	0.33%					24	4	53.27	NCHSHT
NAA0512_6-25	25	6	12	76320.0	76320.0	0.33%					36	6	32.56	NCHSHT
NAA0612_6-25	25	6	12	74215.6	74215.6	0.67%					24	4	40.31	NCHSHT
NAA0712_6-25	25	6	12	77900.6	77900.6	0.31%					18	3	22.24	NCHSHT
NAA0812_6-25	25	6	12	75005.3	75005.3	0.61%					24	4	49.88	NCHSHT
NAA0912_6-25	25	6	12	82254.9	82254.9	0.55%					24	4	54.84	NCHSHT
NAA0018_6-25	25	6	18	110983.2	110983.2	0.13%					56	7	117.87	NCHSHT
NAA0118_6-25	25	6	18	117114.9	117114.9	0.37%					48	6	128.43	NCHSHT
NAA0218_6-25	25	6	18	120033.2	120033.2	0.12%					40	5	111.02	NCHSHT
NAA0318_6-25	25	6	18	116174.8	116174.8	0.18%					40	5	151.08	NCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_6-25	25	6	18	120191.3	120191.3	0.25%					48	6	115.35	NCHSHT
NAA0518_6-25	25	6	18	117402.5	117402.5	0.33%					32	4	65.40	NCHSHT
NAA0618_6-25	25	6	18	108403.8	108403.8	0.15%					40	5	81.06	NCHSHT
NAA0718_6-25	25	6	18	114716.9	114716.9	0.23%					40	5	61.49	NCHSHT
NAA0818_6-25	25	6	18	108391.0	108391.0	0.12%					40	5	92.78	NCHSHT
NAA0918_6-25	25	6	18	121999.8	121999.8	0.19%					48	6	123.58	NCHSHT
NAA006_6-50	50	6	6	74001.6	74001.6	0.10%					15	3	25.73	NCHSHT
NAA016_6-50	50	6	6	76230.0	76230.0	0.27%					25	5	31.82	NCHSHT
NAA026_6-50	50	6	6	79307.3	79307.3	0.62%					15	3	64.59	NCHSHT
NAA036_6-50	50	6	6	77491.7	77491.7	0.01%					20	4	19.54	NCHSHT
NAA046_6-50	50	6	6	79804.8	79804.8	0.48%					25	5	71.73	NCHSHT
NAA056_6-50	50	6	6	80133.7	80133.7	0.31%					20	4	65.75	NCHSHT
NAA066_6-50	50	6	6	76971.3	76971.3	0.31%					15	3	38.38	NCHSHT
NAA076_6-50	50	6	6	80940.3	80940.3	0.13%					25	5	21.77	NCHSHT
NAA086_6-50	50	6	6	75613.4	75613.4	0.01%					20	4	27.18	NCHSHT
NAA096_6-50	50	6	6	76765.7	76765.7	0.11%					15	3	16.19	NCHSHT
NAA0012_6-50	50	6	12	144404.5	144404.5	0.03%					30	5	25.97	NCHSHT
NAA0112_6-50	50	6	12	147676.5	147676.5	0.16%					30	5	66.86	NCHSHT
NAA0212_6-50	50	6	12	152071.1	152071.1	0.11%					36	6	90.13	NCHSHT
NAA0312_6-50	50	6	12	150773.3	150773.3	0.06%					30	5	78.10	NCHSHT
NAA0412_6-50	50	6	12	157211.3	157211.3	0.06%					30	5	79.85	NCHSHT
NAA0512_6-50	50	6	12	153800.0	153800.0	0.13%					30	5	85.44	NCHSHT
NAA0612_6-50	50	6	12	146014.7	146014.7	0.22%					36	6	119.04	NCHSHT
NAA0712_6-50	50	6	12	155970.1	155970.1	0.10%					18	3	38.25	NCHSHT
NAA0812_6-50	50	6	12	142555.3	142555.3	0.21%					18	3	44.27	NCHSHT
NAA0912_6-50	50	6	12	149469.9	149469.9	0.08%					24	4	56.01	NCHSHT
NAA0018_6-50	50	6	18	214507.1	214507.1	0.09%					32	4	80.53	NCHSHT
NAA0118_6-50	50	6	18	216253.3	216253.3	0.04%					32	4	79.08	NCHSHT
NAA0218_6-50	50	6	18	221847.2	221847.2	0.03%					32	4	119.99	NCHSHT
NAA0318_6-50	50	6	18	224293.6	224293.6	0.05%					32	4	117.70	NCHSHT
NAA0418_6-50	50	6	18	234054.4	234054.4	0.01%					56	7	162.18	NCHSHT
NAA0518_6-50	50	6	18	223564.1	223564.1	0.12%					40	5	143.87	NCHSHT
NAA0618_6-50	50	6	18	217083.9	217083.9	0.06%					40	5	189.82	NCHSHT
NAA0718_6-50	50	6	18	229119.4	229119.4	0.10%					40	5	124.37	NCHSHT
NAA0818_6-50	50	6	18	213016.0	213016.0	0.02%					40	5	99.22	NCHSHT
NAA0918_6-50	50	6	18	222700.2	222700.2	0.06%					32	4	88.66	NCHSHT
NAB006_2-6	6	2	6	14046.4	14046.4	0.13%					20	4	0.58	NCHSLT
NAB016_2-6	6	2	6	11210.0	11210.0	2.13%					20	4	0.79	NCHSLT
NAB026_2-6	6	2	6	14941.4	14941.4	2.40%					15	3	0.54	NCHSLT
NAB036_2-6	6	2	6	15128.8	15128.8	1.01%					20	4	0.63	NCHSLT
NAB046_2-6	6	2	6	16411.6	16411.6	0.00%					15	3	0.64	NCHSLT
NAB056_2-6	6	2	6	17185.9	17185.9	3.65%					10	2	0.49	NCHSLT
NAB066_2-6	6	2	6	16180.7	16180.7	1.80%					15	3	0.64	NCHSLT
NAB076_2-6	6	2	6	16589.2	16589.2	0.76%					25	5	0.85	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%					10	2	0.29	NCHSLT
NAB096_2-6	6	2	6	12883.1	12883.1	0.00%					20	4	0.55	NCHSLT
NAB0012_2-6	6	2	12	24921.0	24921.0	2.55%					18	3	1.66	NCHSLT
NAB0112_2-6	6	2	12	23659.7	23659.7	1.42%					30	5	2.77	NCHSLT
NAB0212_2-6	6	2	12	27427.4	27427.4	2.52%					36	6	2.14	NCHSLT
NAB0312_2-6	6	2	12	15810025851.4	15810025907.6	100.00%					24	4	1.90	NCHSLT
NAB0412_2-6	6	2	12	28652.9	28652.9	6.07%					36	6	3.88	NCHSLT
NAB0512_2-6	6	2	12	31035.8	31035.8	0.61%					36	6	2.56	NCHSLT
NAB0612_2-6	6	2	12	28238.2	28238.2	0.80%					30	5	2.25	NCHSLT
NAB0712_2-6	6	2	12	27537.6	27537.6	2.25%					24	4	2.38	NCHSLT
NAB0812_2-6	6	2	12	22813.2	22813.2	3.56%					18	3	1.46	NCHSLT
NAB0912_2-6	6	2	12	27571.8	27571.8	2.11%					30	5	2.79	NCHSLT
NAB0018_2-6	6	2	18	33506.7	33506.7	0.47%					32	4	7.51	NCHSLT
NAB0118_2-6	6	2	18	33822.9	33822.9	0.93%					48	6	6.22	NCHSLT
NAB0218_2-6	6	2	18	39702.2	39702.2	0.84%					32	4	4.24	NCHSLT
NAB0318_2-6	6	2	18	344207712.2	344207713.6	70.95%					56	7	9.25	NCHSLT
NAB0418_2-6	6	2	18	37491.6	37491.6	1.85%					48	6	12.31	NCHSLT
NAB0518_2-6	6	2	18	42854.2	42854.2	1.04%					32	4	5.67	NCHSLT
NAB0618_2-6	6	2	18	38784.7	38784.7	0.05%					56	7	6.06	NCHSLT
NAB0718_2-6	6	2	18	39031.5	39031.5	0.56%					48	6	7.47	NCHSLT
NAB0818_2-6	6	2	18	31810.6	31810.6	0.64%					32	4	3.49	NCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_2-6	6	2	18	36467.5	36467.5	1.18%					40	5	5.75	NCHSLT
NAB006_2-12	12	2	6	21943.7	21943.7	0.70%					15	3	1.03	NCHSLT
NAB016_2-12	12	2	6	24372.8	24372.8	0.26%					15	3	0.79	NCHSLT
NAB026_2-12	12	2	6	25628.9	25628.9	0.50%					45	9	2.50	NCHSLT
NAB036_2-12	12	2	6	30056.1	30056.1	2.47%					10	2	0.99	NCHSLT
NAB046_2-12	12	2	6	25222.2	25222.2	0.04%					10	2	0.73	NCHSLT
NAB056_2-12	12	2	6	30013.7	30013.7	3.21%					15	3	1.12	NCHSLT
NAB066_2-12	12	2	6	25555.1	25555.1	0.58%					10	2	0.72	NCHSLT
NAB076_2-12	12	2	6	25442.6	25442.6	0.00%					20	4	1.15	NCHSLT
NAB086_2-12	12	2	6	23303.5	23303.5	0.00%					10	2	0.58	NCHSLT
NAB096_2-12	12	2	6	27491.4	27491.4	0.92%					10	2	0.91	NCHSLT
NAB0012_2-12	12	2	12	41458.4	41458.4	0.79%					24	4	3.62	NCHSLT
NAB0112_2-12	12	2	12	42106.7	42106.7	1.20%					24	4	3.04	NCHSLT
NAB0212_2-12	12	2	12	44384.0	44384.0	0.90%					30	5	3.80	NCHSLT
NAB0312_2-12	12	2	12	53793.0	53793.0	1.47%					24	4	5.11	NCHSLT
NAB0412_2-12	12	2	12	45698.0	45698.0	1.34%					24	4	3.57	NCHSLT
NAB0512_2-12	12	2	12	53017.0	53017.0	1.58%					36	6	6.30	NCHSLT
NAB0612_2-12	12	2	12	46447.1	46447.1	1.56%					36	6	6.26	NCHSLT
NAB0712_2-12	12	2	12	48749.6	48749.6	2.47%					18	3	3.10	NCHSLT
NAB0812_2-12	12	2	12	41903.4	41903.4	0.09%					30	5	3.09	NCHSLT
NAB0912_2-12	12	2	12	51151.8	51151.8	0.81%					30	5	7.60	NCHSLT
NAB0018_2-12	12	2	18	61032.1	61032.1	0.37%					40	5	9.26	NCHSLT
NAB0118_2-12	12	2	18	62419.0	62419.0	0.76%					40	5	12.93	NCHSLT
NAB0218_2-12	12	2	18	65828.7	65828.7	0.66%					40	5	16.26	NCHSLT
NAB0318_2-12	12	2	18	75647.9	75647.9	0.10%					48	6	17.13	NCHSLT
NAB0418_2-12	12	2	18	68030.7	68030.7	0.32%					32	4	12.09	NCHSLT
NAB0518_2-12	12	2	18	74403.6	74403.6	0.34%					40	5	35.69	NCHSLT
NAB0618_2-12	12	2	18	66151.9	66151.9	0.34%					40	5	12.00	NCHSLT
NAB0718_2-12	12	2	18	68019.5	68019.5	0.34%					40	5	10.90	NCHSLT
NAB0818_2-12	12	2	18	65058.7	65058.7	0.35%					40	5	21.70	NCHSLT
NAB0918_2-12	12	2	18	73281.7	73281.7	0.30%					32	4	16.26	NCHSLT
NAB006_2-25	25	2	6	48601.6	48601.6	0.47%					10	2	1.82	NCHSLT
NAB016_2-25	25	2	6	49604.6	49604.6	0.81%					10	2	1.28	NCHSLT
NAB026_2-25	25	2	6	52678.3	52678.3	1.18%					15	3	2.74	NCHSLT
NAB036_2-25	25	2	6	53887.5	53887.5	0.37%					15	3	2.53	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%					15	3	2.79	NCHSLT
NAB056_2-25	25	2	6	57534.0	57534.0	0.21%					10	2	1.45	NCHSLT
NAB066_2-25	25	2	6	47199.6	47199.6	1.41%					10	2	1.08	NCHSLT
NAB076_2-25	25	2	6	52577.9	52577.9	0.70%					15	3	2.44	NCHSLT
NAB086_2-25	25	2	6	55453.4	55453.4	0.82%					20	4	2.29	NCHSLT
NAB096_2-25	25	2	6	60457.1	60457.1	0.07%					15	3	2.04	NCHSLT
NAB0012_2-25	25	2	12	89348.5	89348.5	0.05%					24	4	9.29	NCHSLT
NAB0112_2-25	25	2	12	95114.1	95114.1	0.32%					24	4	8.89	NCHSLT
NAB0212_2-25	25	2	12	92295.4	92295.4	0.79%					36	6	17.15	NCHSLT
NAB0312_2-25	25	2	12	95586.1	95586.1	0.31%					24	4	11.38	NCHSLT
NAB0412_2-25	25	2	12	94930.7	94930.7	0.56%					42	7	16.74	NCHSLT
NAB0512_2-25	25	2	12	108022.4	108022.4	0.67%					36	6	45.76	NCHSLT
NAB0612_2-25	25	2	12	91244.9	91244.9	0.59%					30	5	7.60	NCHSLT
NAB0712_2-25	25	2	12	96764.9	96764.9	0.26%					18	3	11.73	NCHSLT
NAB0812_2-25	25	2	12	99093.2	99093.2	0.12%					30	5	11.00	NCHSLT
NAB0912_2-25	25	2	12	104884.9	104884.9	0.43%					30	5	19.71	NCHSLT
NAB0018_2-25	25	2	18	129941.6	129941.6	0.19%					24	3	36.42	NCHSLT
NAB0118_2-25	25	2	18	133884.0	133884.0	0.37%					40	5	29.92	NCHSLT
NAB0218_2-25	25	2	18	131857.7	131857.7	0.25%					40	5	49.14	NCHSLT
NAB0318_2-25	25	2	18	144036.2	144036.2	0.52%					32	4	47.55	NCHSLT
NAB0418_2-25	25	2	18	138380.7	138380.7	0.22%					40	5	55.25	NCHSLT
NAB0518_2-25	25	2	18	150446.0	150446.0	0.38%					64	8	115.88	NCHSLT
NAB0618_2-25	25	2	18	128078.4	128078.4	0.26%					40	5	34.31	NCHSLT
NAB0718_2-25	25	2	18	142724.6	142724.6	0.25%					32	4	63.91	NCHSLT
NAB0818_2-25	25	2	18	140530.0	140530.0	0.27%					56	7	89.67	NCHSLT
NAB0918_2-25	25	2	18	150496.3	150496.3	0.51%					48	6	66.93	NCHSLT
NAB006_2-50	50	2	6	95563.3	95563.3	0.34%					15	3	4.50	NCHSLT
NAB016_2-50	50	2	6	99083.7	99083.7	0.16%					15	3	3.01	NCHSLT
NAB026_2-50	50	2	6	96167.6	96167.6	0.07%					15	3	3.19	NCHSLT
NAB036_2-50	50	2	6	104091.6	104091.6	0.06%					15	3	4.58	NCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_2-50	50	2	6	109474.9	109474.9	0.27%					15	3	5.29	NCHSLT
NAB056_2-50	50	2	6	107709.5	107709.5	0.54%					15	3	5.84	NCHSLT
NAB066_2-50	50	2	6	96719.0	96719.0	0.34%					20	4	6.48	NCHSLT
NAB076_2-50	50	2	6	103507.3	103507.3	0.18%					20	4	10.37	NCHSLT
NAB086_2-50	50	2	6	101366.9	101366.9	0.34%					10	2	4.87	NCHSLT
NAB096_2-50	50	2	6	105239.5	105239.5	0.27%					15	3	6.66	NCHSLT
NAB0012_2-50	50	2	12	178096.8	178096.8	0.09%					42	7	47.14	NCHSLT
NAB0112_2-50	50	2	12	185431.9	185431.9	0.05%					18	3	9.42	NCHSLT
NAB0212_2-50	50	2	12	178551.5	178551.5	0.18%					18	3	20.48	NCHSLT
NAB0312_2-50	50	2	12	191347.1	191347.1	0.26%					24	4	33.81	NCHSLT
NAB0412_2-50	50	2	12	197626.8	197626.8	0.25%					30	5	51.37	NCHSLT
NAB0512_2-50	50	2	12	195446.0	195446.0	0.35%					18	3	34.50	NCHSLT
NAB0612_2-50	50	2	12	176084.8	176084.8	0.31%					24	4	19.50	NCHSLT
NAB0712_2-50	50	2	12	187052.7	187052.7	0.16%					30	5	61.03	NCHSLT
NAB0812_2-50	50	2	12	181151.0	181151.0	0.13%					24	4	24.23	NCHSLT
NAB0912_2-50	50	2	12	192848.2	192848.2	0.40%					18	3	45.61	NCHSLT
NAB0018_2-50	50	2	18	260487.9	260487.9	0.07%					24	3	28.56	NCHSLT
NAB0118_2-50	50	2	18	269144.2	269144.2	0.12%					32	4	47.81	NCHSLT
NAB0218_2-50	50	2	18	258232.5	258232.5	0.09%					48	6	86.32	NCHSLT
NAB0318_2-50	50	2	18	280654.2	280654.2	0.09%					24	3	64.44	NCHSLT
NAB0418_2-50	50	2	18	287830.7	287830.7	0.16%					64	8	238.74	NCHSLT
NAB0518_2-50	50	2	18	284798.3	284798.3	0.01%					32	4	70.67	NCHSLT
NAB0618_2-50	50	2	18	257758.8	257758.8	0.11%					40	5	81.47	NCHSLT
NAB0718_2-50	50	2	18	271197.2	271197.2	0.01%					32	4	79.07	NCHSLT
NAB0818_2-50	50	2	18	264164.1	264164.1	0.04%					32	4	33.98	NCHSLT
NAB0918_2-50	50	2	18	280223.9	280223.9	0.07%					56	7	144.12	NCHSLT
NAB006_4-6	6	4	6	9716.8	9716.8	0.59%					15	3	0.75	NCHSLT
NAB016_4-6	6	4	6	12750.4	12750.4	5.58%					25	5	2.02	NCHSLT
NAB026_4-6	6	4	6	12071.6	12071.6	0.33%					20	4	1.27	NCHSLT
NAB036_4-6	6	4	6	12636.0	12636.0	0.18%					25	5	1.17	NCHSLT
NAB046_4-6	6	4	6	11032.7	11032.7	2.24%					20	4	2.20	NCHSLT
NAB056_4-6	6	4	6	15848.3	15848.3	2.95%					15	3	0.98	NCHSLT
NAB066_4-6	6	4	6	12847.7	12847.7	3.65%					20	4	1.20	NCHSLT
NAB076_4-6	6	4	6	14336.7	14336.7	2.75%					15	3	0.97	NCHSLT
NAB086_4-6	6	4	6	10054.3	10054.3	1.07%					20	4	0.85	NCHSLT
NAB096_4-6	6	4	6	14764.9	14764.9	0.36%					25	5	0.98	NCHSLT
NAB0012_4-6	6	4	12	17903.1	17903.1	0.13%					30	5	4.28	NCHSLT
NAB0112_4-6	6	4	12	25474.8	25474.8	1.48%					36	6	10.91	NCHSLT
NAB0212_4-6	6	4	12	23385.0	23385.0	0.91%					30	5	5.82	NCHSLT
NAB0312_4-6	6	4	12	25616.3	25616.3	0.04%					30	5	3.23	NCHSLT
NAB0412_4-6	6	4	12	23621.8	23621.8	0.39%					36	6	9.38	NCHSLT
NAB0512_4-6	6	4	12	30675.2	30675.2	1.33%					36	6	5.97	NCHSLT
NAB0612_4-6	6	4	12	22364.7	22364.7	1.97%					24	4	4.44	NCHSLT
NAB0712_4-6	6	4	12	25134.0	25134.0	2.24%					36	6	4.60	NCHSLT
NAB0812_4-6	6	4	12	21053.3	21053.3	0.01%					30	5	3.83	NCHSLT
NAB0912_4-6	6	4	12	26065.3	26065.3	0.60%					24	4	4.02	NCHSLT
NAB0018_4-6	6	4	18	27519.4	27519.4	0.09%					32	4	12.01	NCHSLT
NAB0118_4-6	6	4	18	33916.2	33916.2	1.89%					40	5	36.15	NCHSLT
NAB0218_4-6	6	4	18	33565.9	33565.9	0.74%					48	6	19.35	NCHSLT
NAB0318_4-6	6	4	18	38957.6	38957.6	0.04%					40	5	15.82	NCHSLT
NAB0418_4-6	6	4	18	35133.5	35133.5	0.17%					48	6	33.13	NCHSLT
NAB0518_4-6	6	4	18	43269.5	43269.5	0.54%					48	6	17.50	NCHSLT
NAB0618_4-6	6	4	18	34352.3	34352.3	0.63%					48	6	14.59	NCHSLT
NAB0718_4-6	6	4	18	37316.0	37316.0	0.14%					56	7	15.33	NCHSLT
NAB0818_4-6	6	4	18	28169.1	28169.1	0.43%					32	4	14.85	NCHSLT
NAB0918_4-6	6	4	18	38482.7	38482.7	0.87%					32	4	13.04	NCHSLT
NAB006_4-12	12	4	6	20562.8	20562.8	0.59%					20	4	2.83	NCHSLT
NAB016_4-12	12	4	6	24009.5	24009.5	1.36%					30	6	11.92	NCHSLT
NAB026_4-12	12	4	6	19250.9	19250.9	2.38%					10	2	1.27	NCHSLT
NAB036_4-12	12	4	6	21159.0	21159.0	2.02%					15	3	1.66	NCHSLT
NAB046_4-12	12	4	6	23147.5	23147.5	0.58%					15	3	2.46	NCHSLT
NAB056_4-12	12	4	6	24550.2	24550.2	1.47%					20	4	3.27	NCHSLT
NAB066_4-12	12	4	6	21880.9	21880.9	2.65%					20	4	2.14	NCHSLT
NAB076_4-12	12	4	6	21766.0	21766.0	0.75%					15	3	3.12	NCHSLT
NAB086_4-12	12	4	6	23042.0	23042.0	1.62%					15	3	1.99	NCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB096_4-12	12	4	6	22911.6	22911.6	2.11%					10	2	2.09	NCHSLT
NAB0012_4-12	12	4	12	36744.1	36744.1	0.42%					24	4	20.53	NCHSLT
NAB0112_4-12	12	4	12	42664.9	42664.9	1.91%					24	4	29.62	NCHSLT
NAB0212_4-12	12	4	12	37591.4	37591.4	0.44%					18	3	8.58	NCHSLT
NAB0312_4-12	12	4	12	41470.2	41470.2	1.22%					30	5	14.03	NCHSLT
NAB0412_4-12	12	4	12	42691.3	42691.3	0.44%					36	6	14.60	NCHSLT
NAB0512_4-12	12	4	12	47960.1	47960.1	3.63%					24	4	26.82	NCHSLT
NAB0612_4-12	12	4	12	40748.3	40748.3	1.56%					36	6	18.89	NCHSLT
NAB0712_4-12	12	4	12	43389.1	43389.1	0.95%					30	5	21.17	NCHSLT
NAB0812_4-12	12	4	12	41951.2	41951.2	0.23%					24	4	5.47	NCHSLT
NAB0912_4-12	12	4	12	45442.0	45442.0	-0.02%					30	5	40.96	NCHSLT
NAB0018_4-12	12	4	18	54964.4	54964.4	0.52%					32	4	46.17	NCHSLT
NAB0118_4-12	12	4	18	61404.3	61404.3	0.72%					48	6	79.24	NCHSLT
NAB0218_4-12	12	4	18	54038.1	54038.1	0.30%					48	6	17.91	NCHSLT
NAB0318_4-12	12	4	18	62816.2	62816.2	0.13%					48	6	41.66	NCHSLT
NAB0418_4-12	12	4	18	63574.0	63574.0	0.44%					40	5	59.17	NCHSLT
NAB0518_4-12	12	4	18	67676.3	67676.3	0.61%					48	6	46.09	NCHSLT
NAB0618_4-12	12	4	18	60079.8	60079.8	0.49%					40	5	29.07	NCHSLT
NAB0718_4-12	12	4	18	66422.5	66422.5	0.25%					48	6	91.21	NCHSLT
NAB0818_4-12	12	4	18	63643.2	63643.2	0.25%					40	5	35.20	NCHSLT
NAB0918_4-12	12	4	18	64241.4	64241.4	-0.07%					64	8	59.74	NCHSLT
NAB006_4-25	25	4	6	38044.4	38044.4	0.72%					15	3	8.98	NCHSLT
NAB016_4-25	25	4	6	46551.7	46551.7	1.02%					20	4	11.32	NCHSLT
NAB026_4-25	25	4	6	43791.7	43791.7	0.43%					20	4	19.34	NCHSLT
NAB036_4-25	25	4	6	43394.2	43394.2	0.25%					20	4	11.40	NCHSLT
NAB046_4-25	25	4	6	44517.6	44517.6	0.58%					20	4	22.47	NCHSLT
NAB056_4-25	25	4	6	48190.1	48190.1	0.25%					30	6	25.29	NCHSLT
NAB066_4-25	25	4	6	38638.9	38638.9	0.51%					20	4	3.68	NCHSLT
NAB076_4-25	25	4	6	44068.5	44068.5	0.44%					15	3	21.30	NCHSLT
NAB086_4-25	25	4	6	40599.1	40599.1	0.42%					15	3	4.80	NCHSLT
NAB096_4-25	25	4	6	46476.8	46476.8	0.33%					35	7	14.03	NCHSLT
NAB0012_4-25	25	4	12	75734.6	75734.6	0.25%					30	5	47.34	NCHSLT
NAB0112_4-25	25	4	12	84293.7	84293.7	0.54%					24	4	82.28	NCHSLT
NAB0212_4-25	25	4	12	80173.2	80173.2	0.17%					30	5	85.63	NCHSLT
NAB0312_4-25	25	4	12	84256.1	84256.1	0.52%					24	4	35.81	NCHSLT
NAB0412_4-25	25	4	12	84860.6	84860.6	0.33%					30	5	53.86	NCHSLT
NAB0512_4-25	25	4	12	88037.0	88037.0	0.66%					30	5	51.53	NCHSLT
NAB0612_4-25	25	4	12	74652.1	74652.1	0.30%					30	5	43.42	NCHSLT
NAB0712_4-25	25	4	12	84711.9	84711.9	0.41%					30	5	65.99	NCHSLT
NAB0812_4-25	25	4	12	79135.2	79135.2	0.14%					24	4	45.83	NCHSLT
NAB0912_4-25	25	4	12	85386.8	85386.8	0.52%					12	2	12.15	NCHSLT
NAB0018_4-25	25	4	18	109890.2	109890.2	0.08%					48	6	96.63	NCHSLT
NAB0118_4-25	25	4	18	122662.5	122662.5	0.33%					48	6	163.02	NCHSLT
NAB0218_4-25	25	4	18	118938.7	118938.7	0.30%					48	6	181.57	NCHSLT
NAB0318_4-25	25	4	18	123196.6	123196.6	0.53%					48	6	140.70	NCHSLT
NAB0418_4-25	25	4	18	125494.7	125494.7	0.44%					32	4	67.32	NCHSLT
NAB0518_4-25	25	4	18	127032.3	127032.3	-0.09%					40	5	86.87	NCHSLT
NAB0618_4-25	25	4	18	111578.3	111578.3	0.49%					40	5	70.75	NCHSLT
NAB0718_4-25	25	4	18	123398.1	123398.1	0.31%					40	5	87.50	NCHSLT
NAB0818_4-25	25	4	18	113423.5	113423.5	-0.02%					40	5	91.49	NCHSLT
NAB0918_4-25	25	4	18	125202.5	125202.5	0.18%					40	5	39.33	NCHSLT
NAB006_4-50	50	4	6	82063.2	82063.2	0.48%					15	3	13.05	NCHSLT
NAB016_4-50	50	4	6	85191.0	85191.0	0.28%					15	3	12.08	NCHSLT
NAB026_4-50	50	4	6	87217.3	87217.3	0.14%					15	3	24.33	NCHSLT
NAB036_4-50	50	4	6	88141.7	88141.7	0.03%					20	4	10.06	NCHSLT
NAB046_4-50	50	4	6	94979.5	94979.5	0.46%					15	3	21.93	NCHSLT
NAB056_4-50	50	4	6	89738.6	89738.6	0.31%					15	3	28.01	NCHSLT
NAB066_4-50	50	4	6	80046.0	80046.0	0.17%					15	3	13.73	NCHSLT
NAB076_4-50	50	4	6	84150.0	84150.0	0.44%					20	4	51.82	NCHSLT
NAB086_4-50	50	4	6	84363.5	84363.5	0.53%					20	4	34.68	NCHSLT
NAB096_4-50	50	4	6	94779.7	94779.7	0.20%					20	4	15.04	NCHSLT
NAB0012_4-50	50	4	12	160440.9	160440.9	0.19%					24	4	82.61	NCHSLT
NAB0112_4-50	50	4	12	157862.5	157862.5	0.08%					30	5	56.79	NCHSLT
NAB0212_4-50	50	4	12	159618.3	159618.3	0.29%					24	4	98.56	NCHSLT
NAB0312_4-50	50	4	12	167021.1	167021.1	0.21%					24	4	54.80	NCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_4-50	50	4	12	172287.6	172287.6	0.29%					18	3	73.14	NCHSLT
NAB0512_4-50	50	4	12	165756.8	165756.8	0.19%					36	6	111.72	NCHSLT
NAB0612_4-50	50	4	12	150684.9	150684.9	0.10%					30	5	51.69	NCHSLT
NAB0712_4-50	50	4	12	163052.1	163052.1	0.28%					18	3	53.02	NCHSLT
NAB0812_4-50	50	4	12	157950.1	157950.1	0.23%					24	4	64.45	NCHSLT
NAB0912_4-50	50	4	12	172940.1	172940.1	0.14%					18	3	34.39	NCHSLT
NAB0018_4-50	50	4	18	228941.3	228941.3	0.13%					32	4	86.62	NCHSLT
NAB0118_4-50	50	4	18	233269.1	233269.1	0.07%					32	4	130.60	NCHSLT
NAB0218_4-50	50	4	18	238885.2	238885.2	0.03%					40	5	158.90	NCHSLT
NAB0318_4-50	50	4	18	243844.1	243844.1	0.06%					40	5	89.62	NCHSLT
NAB0418_4-50	50	4	18	254423.4	254423.4	0.16%					40	5	188.31	NCHSLT
NAB0518_4-50	50	4	18	244821.0	244821.0	-0.01%					48	6	125.12	NCHSLT
NAB0618_4-50	50	4	18	224329.3	224329.3	0.06%					32	4	48.80	NCHSLT
NAB0718_4-50	50	4	18	241990.3	241990.3	0.16%					40	5	166.60	NCHSLT
NAB0818_4-50	50	4	18	228663.8	228663.8	0.08%					48	6	140.70	NCHSLT
NAB0918_4-50	50	4	18	252208.9	252208.9	0.07%					40	5	103.12	NCHSLT
NAB006_6-6	6	6	6	9940.2	9940.2	1.80%					25	5	2.13	NCHSLT
NAB016_6-6	6	6	6	13603.5	13603.5	1.07%					30	6	4.92	NCHSLT
NAB026_6-6	6	6	6	12527.6	12527.6	1.71%					15	3	1.75	NCHSLT
NAB036_6-6	6	6	6	14093.7	14093.7	0.57%					25	5	3.00	NCHSLT
NAB046_6-6	6	6	6	14102.8	14102.8	0.00%					15	3	1.93	NCHSLT
NAB056_6-6	6	6	6	17100.3	17100.3	0.46%					20	4	2.69	NCHSLT
NAB066_6-6	6	6	6	11933.9	11933.9	1.34%					15	3	1.34	NCHSLT
NAB076_6-6	6	6	6	15813.3	15813.3	1.55%					20	4	2.50	NCHSLT
NAB086_6-6	6	6	6	15446.1	15446.1	2.85%					20	4	3.21	NCHSLT
NAB096_6-6	6	6	6	16487.4	16487.4	0.02%					20	4	2.72	NCHSLT
NAB0012_6-6	6	6	12	20226.0	20226.0	0.23%					30	5	8.07	NCHSLT
NAB0112_6-6	6	6	12	25454.3	25454.3	0.72%					36	6	10.45	NCHSLT
NAB0212_6-6	6	6	12	24429.6	24429.6	0.30%					24	4	6.71	NCHSLT
NAB0312_6-6	6	6	12	27526.7	27526.7	0.14%					30	5	12.95	NCHSLT
NAB0412_6-6	6	6	12	27318.6	27318.6	0.03%					36	6	13.00	NCHSLT
NAB0512_6-6	6	6	12	29807.0	29807.0	0.83%					24	4	8.59	NCHSLT
NAB0612_6-6	6	6	12	24039.4	24039.4	1.01%					36	6	9.13	NCHSLT
NAB0712_6-6	6	6	12	29383.8	29383.8	1.01%					42	7	18.41	NCHSLT
NAB0812_6-6	6	6	12	27422.2	27422.2	0.44%					36	6	26.29	NCHSLT
NAB0912_6-6	6	6	12	31533.0	31533.0	3.35%					48	8	27.61	NCHSLT
NAB0018_6-6	6	6	18	29836.3	29836.3	0.36%					56	7	35.68	NCHSLT
NAB0118_6-6	6	6	18	1939733878.7	1939733893.6	94.84%					40	5	76.80	NCHSLT
NAB0218_6-6	6	6	18	33178.8	33178.8	0.42%					48	6	27.16	NCHSLT
NAB0318_6-6	6	6	18	39263.9	39263.9	0.92%					40	5	41.13	NCHSLT
NAB0418_6-6	6	6	18	39947.6	39947.6	0.58%					40	5	61.74	NCHSLT
NAB0518_6-6	6	6	18	45072.7	45072.7	0.57%					40	5	46.12	NCHSLT
NAB0618_6-6	6	6	18	34301.5	34301.5	0.25%					64	8	30.04	NCHSLT
NAB0718_6-6	6	6	18	42942.1	42942.1	0.44%					48	6	37.36	NCHSLT
NAB0818_6-6	6	6	18	44180.3	44180.3	1.23%					32	4	32.72	NCHSLT
NAB0918_6-6	6	6	18	47520.3	47520.3	1.10%					64	8	98.58	NCHSLT
NAB006_6-12	12	6	6	20875.5	20875.5	1.04%					15	3	12.74	NCHSLT
NAB016_6-12	12	6	6	21398.7	21398.7	1.03%					25	5	21.18	NCHSLT
NAB026_6-12	12	6	6	20471.8	20471.8	2.51%					25	5	17.87	NCHSLT
NAB036_6-12	12	6	6	20862.8	20862.8	0.12%					25	5	4.73	NCHSLT
NAB046_6-12	12	6	6	19225.0	19225.0	0.88%					15	3	6.13	NCHSLT
NAB056_6-12	12	6	6	21322.9	21322.9	3.74%					20	4	3.49	NCHSLT
NAB066_6-12	12	6	6	18640.6	18640.6	0.62%					15	3	2.03	NCHSLT
NAB076_6-12	12	6	6	24522.2	24522.2	0.86%					25	5	12.84	NCHSLT
NAB086_6-12	12	6	6	21785.9	21785.9	3.22%					25	5	19.95	NCHSLT
NAB096_6-12	12	6	6	24933.6	24933.6	2.09%					20	4	11.24	NCHSLT
NAB0012_6-12	12	6	12	38623.4	38623.4	0.68%					24	4	28.55	NCHSLT
NAB0112_6-12	12	6	12	41160.7	41160.7	1.13%					18	3	21.10	NCHSLT
NAB0212_6-12	12	6	12	39180.1	39180.1	1.38%					30	5	56.84	NCHSLT
NAB0312_6-12	12	6	12	41287.1	41287.1	0.55%					24	4	15.32	NCHSLT
NAB0412_6-12	12	6	12	36723.4	36723.4	0.30%					30	5	31.13	NCHSLT
NAB0512_6-12	12	6	12	43249.7	43249.7	1.55%					36	6	42.30	NCHSLT
NAB0612_6-12	12	6	12	35613.7	35613.7	1.45%					24	4	9.92	NCHSLT
NAB0712_6-12	12	6	12	48784.8	48784.8	0.93%					36	6	60.00	NCHSLT
NAB0812_6-12	12	6	12	40597.0	40597.0	0.84%					36	6	52.47	NCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_6-12	12	6	12	45103.4	45103.4	0.99%					30	5	20.76	NCHSLT
NAB0018_6-12	12	6	18	57545.2	57545.2	-0.02%					64	8	68.17	NCHSLT
NAB0118_6-12	12	6	18	62994.6	62994.6	0.51%					40	5	65.26	NCHSLT
NAB0218_6-12	12	6	18	57260.0	57260.0	0.79%					48	6	93.71	NCHSLT
NAB0318_6-12	12	6	18	58770.2	58770.2	0.06%					32	4	61.67	NCHSLT
NAB0418_6-12	12	6	18	53444.5	53444.5	0.19%					56	7	66.52	NCHSLT
NAB0518_6-12	12	6	18	64097.8	64097.8	0.44%					40	5	61.35	NCHSLT
NAB0618_6-12	12	6	18	55356.5	55356.5	0.47%					40	5	43.43	NCHSLT
NAB0718_6-12	12	6	18	70627.0	70627.0	0.38%					48	6	121.50	NCHSLT
NAB0818_6-12	12	6	18	59673.2	59673.2	0.41%					48	6	102.89	NCHSLT
NAB0918_6-12	12	6	18	66734.9	66734.9	0.55%					32	4	47.20	NCHSLT
NAB006_6-25	25	6	6	40348.7	40348.7	0.61%					20	4	16.40	NCHSLT
NAB016_6-25	25	6	6	40713.5	40713.5	0.74%					15	3	36.55	NCHSLT
NAB026_6-25	25	6	6	42524.9	42524.9	0.46%					20	4	20.20	NCHSLT
NAB036_6-25	25	6	6	41685.6	41685.6	0.92%					25	5	30.70	NCHSLT
NAB046_6-25	25	6	6	44379.9	44379.9	1.45%					20	4	48.83	NCHSLT
NAB056_6-25	25	6	6	41423.3	41423.3	1.33%					20	4	30.11	NCHSLT
NAB066_6-25	25	6	6	39936.5	39936.5	0.78%					25	5	34.48	NCHSLT
NAB076_6-25	25	6	6	43716.9	43716.9	1.01%					15	3	13.66	NCHSLT
NAB086_6-25	25	6	6	41789.5	41789.5	0.54%					25	5	46.33	NCHSLT
NAB096_6-25	25	6	6	43207.3	43207.3	0.78%					20	4	30.78	NCHSLT
NAB0012_6-25	25	6	12	78459.1	78459.1	0.73%					30	5	80.73	NCHSLT
NAB0112_6-25	25	6	12	80738.7	80738.7	0.26%					48	8	118.05	NCHSLT
NAB0212_6-25	25	6	12	81728.7	81728.7	0.89%					36	6	101.72	NCHSLT
NAB0312_6-25	25	6	12	79355.3	79355.3	0.76%					30	5	104.72	NCHSLT
NAB0412_6-25	25	6	12	82126.3	82126.3	0.09%					48	8	117.13	NCHSLT
NAB0512_6-25	25	6	12	78559.2	78559.2	1.07%					24	4	62.00	NCHSLT
NAB0612_6-25	25	6	12	75865.0	75865.0	0.59%					30	5	77.21	NCHSLT
NAB0712_6-25	25	6	12	78834.1	78834.1	0.16%					30	5	33.13	NCHSLT
NAB0812_6-25	25	6	12	76874.4	76874.4	0.10%					24	4	52.32	NCHSLT
NAB0912_6-25	25	6	12	84001.3	84001.3	0.38%					30	5	85.88	NCHSLT
NAB0018_6-25	25	6	18	113343.7	113343.7	0.13%					48	6	166.04	NCHSLT
NAB0118_6-25	25	6	18	118929.2	118929.2	0.11%					40	5	142.08	NCHSLT
NAB0218_6-25	25	6	18	122042.5	122042.5	0.27%					72	9	238.48	NCHSLT
NAB0318_6-25	25	6	18	118374.2	118374.2	-0.16%					56	7	231.16	NCHSLT
NAB0418_6-25	25	6	18	122205.9	122205.9	0.07%					64	8	317.13	NCHSLT
NAB0518_6-25	25	6	18	119167.3	119167.3	0.39%					40	5	112.64	NCHSLT
NAB0618_6-25	25	6	18	110547.7	110547.7	0.19%					48	6	160.59	NCHSLT
NAB0718_6-25	25	6	18	116344.5	116344.5	0.24%					64	8	159.03	NCHSLT
NAB0818_6-25	25	6	18	110833.2	110833.2	0.07%					40	5	132.28	NCHSLT
NAB0918_6-25	25	6	18	124657.0	124657.0	0.31%					56	7	230.52	NCHSLT
NAB006_6-50	50	6	6	75699.9	75699.9	0.70%					20	4	58.03	NCHSLT
NAB016_6-50	50	6	6	78465.7	78465.7	0.45%					25	5	68.36	NCHSLT
NAB026_6-50	50	6	6	80963.4	80963.4	0.23%					20	4	63.42	NCHSLT
NAB036_6-50	50	6	6	78988.0	78988.0	0.14%					20	4	40.94	NCHSLT
NAB046_6-50	50	6	6	82030.6	82030.6	0.64%					20	4	84.60	NCHSLT
NAB056_6-50	50	6	6	82372.4	82372.4	0.16%					20	4	59.95	NCHSLT
NAB066_6-50	50	6	6	79116.4	79116.4	0.33%					20	4	87.28	NCHSLT
NAB076_6-50	50	6	6	82390.1	82390.1	0.27%					15	3	34.06	NCHSLT
NAB086_6-50	50	6	6	77693.0	77693.0	0.38%					25	5	69.62	NCHSLT
NAB096_6-50	50	6	6	79018.3	79018.3	0.53%					30	6	101.41	NCHSLT
NAB0012_6-50	50	6	12	146991.0	146991.0	0.31%					24	4	81.84	NCHSLT
NAB0112_6-50	50	6	12	149782.4	149782.4	0.27%					24	4	69.97	NCHSLT
NAB0212_6-50	50	6	12	154273.2	154273.2	0.19%					30	5	150.21	NCHSLT
NAB0312_6-50	50	6	12	152783.2	152783.2	0.29%					24	4	96.48	NCHSLT
NAB0412_6-50	50	6	12	159700.9	159700.9	0.21%					24	4	104.32	NCHSLT
NAB0512_6-50	50	6	12	157704.5	157704.5	0.25%					42	7	170.75	NCHSLT
NAB0612_6-50	50	6	12	148537.2	148537.2	0.14%					30	5	146.17	NCHSLT
NAB0712_6-50	50	6	12	157322.0	157322.0	0.08%					30	5	83.15	NCHSLT
NAB0812_6-50	50	6	12	144410.4	144410.4	0.26%					36	6	74.25	NCHSLT
NAB0912_6-50	50	6	12	151756.2	151756.2	0.01%					30	5	105.22	NCHSLT
NAB0018_6-50	50	6	18	216735.6	216735.6	0.04%					32	4	145.35	NCHSLT
NAB0118_6-50	50	6	18	219245.3	219245.3	0.08%					48	6	170.96	NCHSLT
NAB0218_6-50	50	6	18	224798.1	224798.1	0.07%					40	5	233.54	NCHSLT
NAB0318_6-50	50	6	18	226614.2	226614.2	0.11%					48	6	280.93	NCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_6-50	50	6	18	237184.5	237184.5	0.02%					48	6	297.18	NCHSLT
NAB0518_6-50	50	6	18	226686.2	226686.2	0.15%					40	5	192.19	NCHSLT
NAB0618_6-50	50	6	18	220667.0	220667.0	0.01%					48	6	376.56	NCHSLT
NAB0718_6-50	50	6	18	230829.2	230829.2	0.10%					48	6	200.60	NCHSLT
NAB0818_6-50	50	6	18	215570.7	215570.7	0.04%					56	7	190.47	NCHSLT
NAB0918_6-50	50	6	18	224942.2	224942.2	-0.03%					48	6	265.05	NCHSLT
NBA006_2-6	6	2	6	8049.4	8049.4	0.12%					15	3	0.65	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%					15	3	0.23	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%					15	3	0.41	NCLSHT
NBA036_2-6	6	2	6	7713.1	7713.1	0.33%					15	3	0.44	NCLSHT
NBA046_2-6	6	2	6	7759.6	7759.6	0.30%					25	5	0.88	NCLSHT
NBA056_2-6	6	2	6	9364.1	9364.1	0.24%					10	2	0.32	NCLSHT
NBA066_2-6	6	2	6	8003.0	8003.0	0.07%					10	2	0.36	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%					10	2	0.36	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%					10	2	0.40	NCLSHT
NBA096_2-6	6	2	6	7088.9	7088.9	0.00%					10	2	0.23	NCLSHT
NBA0012_2-6	6	2	12	15372.7	15372.7	0.14%					18	3	1.92	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%					24	4	1.25	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%					18	3	1.24	NCLSHT
NBA0312_2-6	6	2	12	14515.2	14515.2	0.00%					18	3	1.73	NCLSHT
NBA0412_2-6	6	2	12	13544.8	13544.8	0.46%					24	4	2.43	NCLSHT
NBA0512_2-6	6	2	12	17275.8	17275.8	0.22%					12	2	0.80	NCLSHT
NBA0612_2-6	6	2	12	14771.0	14771.0	0.00%					12	2	0.68	NCLSHT
NBA0712_2-6	6	2	12	16542.1	16542.1	0.00%					18	3	1.65	NCLSHT
NBA0812_2-6	6	2	12	14109.8	14109.8	0.07%					18	3	1.37	NCLSHT
NBA0912_2-6	6	2	12	16069.1	16069.1	0.08%					12	2	0.68	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%					40	5	6.27	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%					24	3	1.65	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%					24	3	3.31	NCLSHT
NBA0318_2-6	6	2	18	22932.5	22932.5	0.03%					24	3	3.74	NCLSHT
NBA0418_2-6	6	2	18	19925.7	19925.7	0.37%					24	3	5.36	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%					16	2	1.49	NCLSHT
NBA0618_2-6	6	2	18	22629.8	22629.8	0.04%					32	4	2.85	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%					32	4	5.54	NCLSHT
NBA0818_2-6	6	2	18	20733.7	20733.7	0.03%					24	3	2.68	NCLSHT
NBA0918_2-6	6	2	18	22402.4	22402.4	0.00%					24	3	1.60	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%					10	2	0.34	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%					15	3	0.58	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%					15	3	0.81	NCLSHT
NBA036_2-12	12	2	6	16299.4	16299.4	0.00%					10	2	0.43	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%					10	2	0.53	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%					10	2	0.36	NCLSHT
NBA066_2-12	12	2	6	13754.3	13754.3	0.20%					15	3	0.60	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%					5	1	0.33	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%					15	3	0.61	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%					20	4	1.16	NCLSHT
NBA0012_2-12	12	2	12	26002.8	26002.8	0.02%					12	2	0.88	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%					18	3	1.25	NCLSHT
NBA0212_2-12	12	2	12	26962.1	26962.1	0.11%					24	4	3.09	NCLSHT
NBA0312_2-12	12	2	12	31645.6	31645.6	0.00%					18	3	1.47	NCLSHT
NBA0412_2-12	12	2	12	28156.9	28156.9	0.03%					18	3	1.75	NCLSHT
NBA0512_2-12	12	2	12	31963.7	31963.7	0.00%					12	2	1.24	NCLSHT
NBA0612_2-12	12	2	12	27147.6	27147.6	0.05%					18	3	1.24	NCLSHT
NBA0712_2-12	12	2	12	30161.7	30161.7	0.01%					18	3	1.35	NCLSHT
NBA0812_2-12	12	2	12	26602.2	26602.2	0.03%					12	2	2.05	NCLSHT
NBA0912_2-12	12	2	12	30775.2	30775.2	0.06%					24	4	4.04	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%					16	2	1.96	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%					24	3	3.65	NCLSHT
NBA0218_2-12	12	2	18	41244.8	41244.8	0.04%					32	4	11.60	NCLSHT
NBA0318_2-12	12	2	18	46065.0	46065.0	0.00%					32	4	4.15	NCLSHT
NBA0418_2-12	12	2	18	44030.3	44030.3	0.00%					24	3	3.62	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%					24	3	3.26	NCLSHT
NBA0618_2-12	12	2	18	40466.9	40466.9	0.03%					24	3	3.32	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%					24	3	2.88	NCLSHT
NBA0818_2-12	12	2	18	41120.4	41120.4	0.00%					16	2	5.57	NCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_2-12	12	2	18	46902.3	46902.3	0.02%					32	4	9.33	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%					10	2	0.72	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%					10	2	0.93	NCLSHT
NBA026_2-25	25	2	6	28314.1	28314.1	0.08%					15	3	1.37	NCLSHT
NBA036_2-25	25	2	6	30091.5	30091.5	0.05%					15	3	1.12	NCLSHT
NBA046_2-25	25	2	6	31272.9	31272.9	0.02%					10	2	1.28	NCLSHT
NBA056_2-25	25	2	6	31286.9	31286.9	0.09%					15	3	1.44	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%					15	3	0.71	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%					15	3	1.38	NCLSHT
NBA086_2-25	25	2	6	31928.1	31928.1	0.16%					15	3	1.65	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%					20	4	1.79	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%					18	3	1.48	NCLSHT
NBA0112_2-25	25	2	12	60769.6	60769.6	0.03%					12	2	2.21	NCLSHT
NBA0212_2-25	25	2	12	56017.1	56017.1	0.07%					24	4	5.42	NCLSHT
NBA0312_2-25	25	2	12	59053.8	59053.8	0.04%					24	4	4.31	NCLSHT
NBA0412_2-25	25	2	12	59453.1	59453.1	0.03%					18	3	3.19	NCLSHT
NBA0512_2-25	25	2	12	64657.9	64657.9	0.01%					18	3	3.39	NCLSHT
NBA0612_2-25	25	2	12	57094.2	57094.2	0.00%					12	2	1.34	NCLSHT
NBA0712_2-25	25	2	12	62593.7	62593.7	0.00%					18	3	3.32	NCLSHT
NBA0812_2-25	25	2	12	62463.1	62463.1	0.00%					24	4	6.93	NCLSHT
NBA0912_2-25	25	2	12	63793.8	63793.8	0.02%					12	2	2.09	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%					16	2	2.09	NCLSHT
NBA0118_2-25	25	2	18	88422.0	88422.0	0.00%					24	3	5.74	NCLSHT
NBA0218_2-25	25	2	18	82860.4	82860.4	0.00%					32	4	9.18	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%					32	4	8.39	NCLSHT
NBA0418_2-25	25	2	18	90301.4	90301.4	0.03%					32	4	11.73	NCLSHT
NBA0518_2-25	25	2	18	94617.5	94617.5	0.01%					24	3	8.79	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%					16	2	1.67	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%					24	3	7.86	NCLSHT
NBA0818_2-25	25	2	18	91137.4	91137.4	0.02%					24	3	13.40	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%					24	3	5.27	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%					10	2	1.29	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%					15	3	1.56	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%					10	2	1.60	NCLSHT
NBA036_2-50	50	2	6	59061.8	59061.8	0.00%					10	2	1.68	NCLSHT
NBA046_2-50	50	2	6	60538.6	60538.6	0.01%					15	3	2.10	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%					10	2	1.42	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%					10	2	1.39	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%					10	2	1.41	NCLSHT
NBA086_2-50	50	2	6	59777.0	59777.0	0.00%					10	2	1.91	NCLSHT
NBA096_2-50	50	2	6	60442.2	60442.2	0.01%					10	2	1.76	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%					6	1	2.00	NCLSHT
NBA0112_2-50	50	2	12	119723.4	119723.4	0.00%					12	2	3.09	NCLSHT
NBA0212_2-50	50	2	12	113773.1	113773.1	0.00%					18	3	4.67	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%					12	2	3.06	NCLSHT
NBA0412_2-50	50	2	12	121762.8	121762.8	0.00%					12	2	4.38	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%					12	2	3.28	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%					12	2	2.70	NCLSHT
NBA0712_2-50	50	2	12	114485.3	114485.3	0.00%					12	2	4.85	NCLSHT
NBA0812_2-50	50	2	12	115042.9	115042.9	0.01%					18	3	6.57	NCLSHT
NBA0912_2-50	50	2	12	122211.6	122211.6	0.00%					12	2	4.57	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%					16	2	4.60	NCLSHT
NBA0118_2-50	50	2	18	178656.8	178656.8	0.00%					16	2	5.34	NCLSHT
NBA0218_2-50	50	2	18	169388.1	169388.1	0.01%					16	2	8.62	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%					24	3	7.08	NCLSHT
NBA0418_2-50	50	2	18	181166.2	181166.2	0.01%					32	4	22.14	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%					16	2	4.71	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%					16	2	5.87	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%					16	2	7.02	NCLSHT
NBA0818_2-50	50	2	18	173126.3	173126.3	0.01%					24	3	14.58	NCLSHT
NBA0918_2-50	50	2	18	182592.7	182592.7	0.00%					16	2	8.02	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%					15	3	0.42	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%					10	2	0.75	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%					10	2	0.55	NCLSHT
NBA036_4-6	6	4	6	6619.3	6619.3	0.00%					15	3	1.00	NCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_4-6	6	4	6	5430.4	5430.4	0.00%					10	2	0.44	NCLSHT
NBA056_4-6	6	4	6	7754.9	7754.9	0.69%					20	4	1.53	NCLSHT
NBA066_4-6	6	4	6	6278.5	6278.5	0.17%					15	3	0.85	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%					15	3	0.78	NCLSHT
NBA086_4-6	6	4	6	5797.5	5797.5	0.09%					15	3	0.90	NCLSHT
NBA096_4-6	6	4	6	8490.5	8490.5	0.10%					20	4	1.16	NCLSHT
NBA0012_4-6	6	4	12	11580.9	11580.9	0.00%					24	4	1.91	NCLSHT
NBA0112_4-6	6	4	12	15087.9	15087.9	0.20%					24	4	6.33	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%					18	3	2.57	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%					18	3	2.49	NCLSHT
NBA0412_4-6	6	4	12	12571.5	12571.5	0.00%					24	4	4.73	NCLSHT
NBA0512_4-6	6	4	12	15621.3	15621.3	0.18%					18	3	6.19	NCLSHT
NBA0612_4-6	6	4	12	12639.2	12639.2	0.12%					24	4	3.69	NCLSHT
NBA0712_4-6	6	4	12	14544.2	14544.2	0.08%					18	3	2.66	NCLSHT
NBA0812_4-6	6	4	12	12173.9	12173.9	0.07%					24	4	3.05	NCLSHT
NBA0912_4-6	6	4	12	14721.9	14721.9	0.15%					18	3	3.48	NCLSHT
NBA0018_4-6	6	4	18	18430.2	18430.2	0.00%					24	3	4.37	NCLSHT
NBA0118_4-6	6	4	18	21322.6	21322.6	0.00%					24	3	10.74	NCLSHT
NBA0218_4-6	6	4	18	21178.7	21178.7	0.04%					32	4	8.03	NCLSHT
NBA0318_4-6	6	4	18	21673.6	21673.6	0.00%					32	4	7.49	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%					32	4	5.77	NCLSHT
NBA0518_4-6	6	4	18	23019.7	23019.7	0.01%					24	3	11.30	NCLSHT
NBA0618_4-6	6	4	18	19485.6	19485.6	0.04%					24	3	10.38	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%					32	4	6.25	NCLSHT
NBA0818_4-6	6	4	18	18065.6	18065.6	0.00%					40	5	8.83	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%					32	4	8.52	NCLSHT
NBA006_4-12	12	4	6	13153.7	13153.7	0.00%					20	4	1.90	NCLSHT
NBA016_4-12	12	4	6	15324.2	15324.2	0.09%					25	5	3.25	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%					15	3	1.11	NCLSHT
NBA036_4-12	12	4	6	12218.4	12218.4	0.01%					15	3	1.42	NCLSHT
NBA046_4-12	12	4	6	14277.8	14277.8	0.00%					15	3	0.96	NCLSHT
NBA056_4-12	12	4	6	14092.9	14092.9	0.00%					15	3	1.47	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%					10	2	0.71	NCLSHT
NBA076_4-12	12	4	6	12420.9	12420.9	0.09%					10	2	1.07	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%					20	4	1.37	NCLSHT
NBA096_4-12	12	4	6	13187.7	13187.7	0.04%					30	6	3.07	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%					18	3	6.53	NCLSHT
NBA0112_4-12	12	4	12	28360.5	28360.5	0.01%					24	4	12.48	NCLSHT
NBA0212_4-12	12	4	12	26394.4	26394.4	0.00%					24	4	3.56	NCLSHT
NBA0312_4-12	12	4	12	25275.1	25275.1	0.00%					24	4	3.04	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%					18	3	3.00	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%					18	3	2.93	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%					18	3	1.75	NCLSHT
NBA0712_4-12	12	4	12	26174.8	26174.8	0.08%					18	3	3.76	NCLSHT
NBA0812_4-12	12	4	12	28007.1	28007.1	0.05%					12	2	3.12	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%					18	3	9.28	NCLSHT
NBA0018_4-12	12	4	18	38028.4	38028.4	0.00%					32	4	20.41	NCLSHT
NBA0118_4-12	12	4	18	41645.7	41645.7	0.04%					32	4	40.20	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%					24	3	8.14	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%					32	4	10.71	NCLSHT
NBA0418_4-12	12	4	18	40570.9	40570.9	0.01%					40	5	17.65	NCLSHT
NBA0518_4-12	12	4	18	41008.0	41008.0	0.01%					32	4	12.11	NCLSHT
NBA0618_4-12	12	4	18	37066.0	37066.0	0.00%					24	3	6.16	NCLSHT
NBA0718_4-12	12	4	18	41034.4	41034.4	0.00%					32	4	17.82	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%					32	4	7.27	NCLSHT
NBA0918_4-12	12	4	18	41429.2	41429.2	0.00%					24	3	32.40	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%					15	3	1.92	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%					15	3	2.37	NCLSHT
NBA026_4-25	25	4	6	27548.3	27548.3	0.00%					10	2	1.40	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%					20	4	3.02	NCLSHT
NBA046_4-25	25	4	6	26626.0	26626.0	0.04%					10	2	1.35	NCLSHT
NBA056_4-25	25	4	6	30122.2	30122.2	0.04%					10	2	1.88	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%					10	2	1.10	NCLSHT
NBA076_4-25	25	4	6	26942.8	26942.8	0.02%					10	2	2.44	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%					10	2	1.50	NCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_4-25	25	4	6	27866.7	27866.7	0.06%					20	4	3.11	NCLSHT
NBA0012_4-25	25	4	12	53588.2	53588.2	0.03%					18	3	9.96	NCLSHT
NBA0112_4-25	25	4	12	56263.5	56263.5	0.01%					24	4	5.61	NCLSHT
NBA0212_4-25	25	4	12	53163.6	53163.6	0.01%					18	3	6.86	NCLSHT
NBA0312_4-25	25	4	12	53949.1	53949.1	0.02%					18	3	6.55	NCLSHT
NBA0412_4-25	25	4	12	54871.9	54871.9	0.01%					12	2	3.28	NCLSHT
NBA0512_4-25	25	4	12	57055.2	57055.2	0.05%					12	2	3.88	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%					12	2	2.61	NCLSHT
NBA0712_4-25	25	4	12	55377.9	55377.9	0.00%					18	3	9.02	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%					12	2	3.77	NCLSHT
NBA0912_4-25	25	4	12	54755.7	54755.7	0.03%					24	4	7.54	NCLSHT
NBA0018_4-25	25	4	18	77883.9	77883.9	0.01%					24	3	20.96	NCLSHT
NBA0118_4-25	25	4	18	83805.9	83805.9	0.01%					16	2	9.34	NCLSHT
NBA0218_4-25	25	4	18	80782.3	80782.3	0.01%					32	4	17.40	NCLSHT
NBA0318_4-25	25	4	18	80246.3	80246.3	0.00%					32	4	13.37	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%					16	2	4.60	NCLSHT
NBA0518_4-25	25	4	18	84247.7	84247.7	0.01%					16	2	9.82	NCLSHT
NBA0618_4-25	25	4	18	77305.9	77305.9	0.00%					24	3	6.87	NCLSHT
NBA0718_4-25	25	4	18	82401.9	82401.9	0.02%					32	4	20.30	NCLSHT
NBA0818_4-25	25	4	18	78379.0	78379.0	0.00%					24	3	10.58	NCLSHT
NBA0918_4-25	25	4	18	82201.5	82201.5	0.00%					32	4	18.51	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%					10	2	2.32	NCLSHT
NBA016_4-50	50	4	6	55352.3	55352.3	0.00%					10	2	2.56	NCLSHT
NBA026_4-50	50	4	6	55982.7	55982.7	0.00%					15	3	2.39	NCLSHT
NBA036_4-50	50	4	6	55089.4	55089.4	0.00%					10	2	3.78	NCLSHT
NBA046_4-50	50	4	6	56679.7	56679.7	0.03%					15	3	6.33	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%					15	3	1.69	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%					10	2	1.90	NCLSHT
NBA076_4-50	50	4	6	51568.4	51568.4	0.01%					15	3	2.58	NCLSHT
NBA086_4-50	50	4	6	52838.0	52838.0	0.01%					10	2	2.77	NCLSHT
NBA096_4-50	50	4	6	60101.0	60101.0	0.00%					10	2	2.05	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%					24	4	21.15	NCLSHT
NBA0112_4-50	50	4	12	108410.9	108410.9	0.00%					18	3	6.26	NCLSHT
NBA0212_4-50	50	4	12	107881.8	107881.8	0.00%					18	3	7.71	NCLSHT
NBA0312_4-50	50	4	12	109984.9	109984.9	0.00%					18	3	11.20	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%					18	3	8.23	NCLSHT
NBA0512_4-50	50	4	12	111977.9	111977.9	0.01%					12	2	5.64	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%					12	2	3.37	NCLSHT
NBA0712_4-50	50	4	12	106406.4	106406.4	0.00%					18	3	14.79	NCLSHT
NBA0812_4-50	50	4	12	106458.6	106458.6	0.00%					12	2	4.17	NCLSHT
NBA0912_4-50	50	4	12	114306.6	114306.6	0.00%					12	2	6.23	NCLSHT
NBA0018_4-50	50	4	18	159939.9	159939.9	0.00%					24	3	14.57	NCLSHT
NBA0118_4-50	50	4	18	161695.5	161695.5	0.00%					24	3	15.02	NCLSHT
NBA0218_4-50	50	4	18	162670.8	162670.8	0.00%					32	4	36.78	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%					16	2	19.09	NCLSHT
NBA0418_4-50	50	4	18	166161.4	166161.4	0.00%					24	3	23.07	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%					16	2	10.91	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%					24	3	11.09	NCLSHT
NBA0718_4-50	50	4	18	161440.2	161440.2	0.01%					32	4	50.68	NCLSHT
NBA0818_4-50	50	4	18	157274.5	157274.5	0.00%					24	3	9.56	NCLSHT
NBA0918_4-50	50	4	18	168431.8	168431.8	0.00%					16	2	13.08	NCLSHT
NBA006_6-6	6	6	6	5607.3	5607.3	0.00%					10	2	0.65	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%					15	3	1.95	NCLSHT
NBA026_6-6	6	6	6	6939.6	6939.6	0.00%					15	3	1.11	NCLSHT
NBA036_6-6	6	6	6	7380.7	7380.7	0.88%					15	3	1.07	NCLSHT
NBA046_6-6	6	6	6	8017.1	8017.1	0.00%					15	3	2.07	NCLSHT
NBA056_6-6	6	6	6	7914.6	7914.6	0.04%					20	4	1.98	NCLSHT
NBA066_6-6	6	6	6	6664.8	6664.8	0.06%					15	3	0.93	NCLSHT
NBA076_6-6	6	6	6	7702.2	7702.2	0.09%					15	3	1.77	NCLSHT
NBA086_6-6	6	6	6	6624.8	6624.8	0.00%					15	3	1.93	NCLSHT
NBA096_6-6	6	6	6	7390.7	7390.7	0.00%					15	3	4.10	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%					24	4	2.27	NCLSHT
NBA0112_6-6	6	6	12	14045.9	14045.9	0.01%					36	6	7.91	NCLSHT
NBA0212_6-6	6	6	12	14176.2	14176.2	0.25%					18	3	7.07	NCLSHT
NBA0312_6-6	6	6	12	14746.4	14746.4	0.29%					18	3	4.97	NCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0412_6-6	6	6	12	14770.6	14770.6	0.14%					24	4	7.28	NCLSHT
NBA0512_6-6	6	6	12	14522.9	14522.9	0.05%					18	3	3.78	NCLSHT
NBA0612_6-6	6	6	12	12568.0	12568.0	0.00%					18	3	5.18	NCLSHT
NBA0712_6-6	6	6	12	15111.1	15111.1	0.01%					24	4	5.90	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%					24	4	7.24	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%					24	4	6.19	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%					24	3	5.88	NCLSHT
NBA0118_6-6	6	6	18	21526.3	21526.3	0.00%					40	5	19.14	NCLSHT
NBA0218_6-6	6	6	18	19870.5	19870.5	0.00%					40	5	19.84	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%					32	4	13.24	NCLSHT
NBA0418_6-6	6	6	18	21953.4	21953.4	0.00%					24	3	16.84	NCLSHT
NBA0518_6-6	6	6	18	22129.7	22129.7	0.00%					32	4	19.21	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%					32	4	14.73	NCLSHT
NBA0718_6-6	6	6	18	21759.8	21759.8	0.00%					24	3	13.90	NCLSHT
NBA0818_6-6	6	6	18	19932.8	19932.8	0.12%					32	4	28.09	NCLSHT
NBA0918_6-6	6	6	18	21302.0	21302.0	0.03%					48	6	25.96	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%					20	4	2.30	NCLSHT
NBA016_6-12	12	6	6	13041.8	13041.8	0.06%					15	3	2.24	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%					15	3	1.31	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%					15	3	1.28	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%					15	3	1.31	NCLSHT
NBA056_6-12	12	6	6	12333.4	12333.4	0.00%					15	3	1.18	NCLSHT
NBA066_6-12	12	6	6	11650.8	11650.8	0.08%					30	6	3.19	NCLSHT
NBA076_6-12	12	6	6	13567.6	13567.6	0.65%					15	3	5.50	NCLSHT
NBA086_6-12	12	6	6	13405.1	13405.1	0.23%					15	3	2.78	NCLSHT
NBA096_6-12	12	6	6	14311.8	14311.8	0.07%					20	4	3.32	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%					18	3	4.21	NCLSHT
NBA0112_6-12	12	6	12	25541.0	25541.0	0.07%					18	3	6.48	NCLSHT
NBA0212_6-12	12	6	12	24040.7	24040.7	0.06%					18	3	7.39	NCLSHT
NBA0312_6-12	12	6	12	26461.3	26461.3	0.06%					24	4	4.91	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%					12	2	2.28	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%					18	3	4.83	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%					24	4	8.49	NCLSHT
NBA0712_6-12	12	6	12	27876.1	27876.1	0.00%					24	4	21.73	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%					24	4	14.11	NCLSHT
NBA0912_6-12	12	6	12	27291.6	27291.6	0.06%					30	5	15.33	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%					32	4	12.21	NCLSHT
NBA0118_6-12	12	6	18	40980.5	40980.5	0.02%					32	4	17.74	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%					32	4	14.67	NCLSHT
NBA0318_6-12	12	6	18	38314.3	38314.3	0.00%					32	4	11.87	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%					24	3	8.58	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%					32	4	17.26	NCLSHT
NBA0618_6-12	12	6	18	37140.3	37140.3	0.00%					32	4	23.18	NCLSHT
NBA0718_6-12	12	6	18	41283.6	41283.6	0.02%					32	4	32.86	NCLSHT
NBA0818_6-12	12	6	18	39070.7	39070.7	0.00%					24	3	44.79	NCLSHT
NBA0918_6-12	12	6	18	41048.4	41048.4	0.04%					32	4	28.09	NCLSHT
NBA006_6-25	25	6	6	25561.5	25561.5	0.02%					10	2	3.65	NCLSHT
NBA016_6-25	25	6	6	25302.8	25302.8	0.01%					15	3	2.99	NCLSHT
NBA026_6-25	25	6	6	26727.4	26727.4	0.04%					15	3	2.72	NCLSHT
NBA036_6-25	25	6	6	26599.6	26599.6	0.13%					15	3	6.09	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%					20	4	9.63	NCLSHT
NBA056_6-25	25	6	6	26229.3	26229.3	0.03%					15	3	3.91	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%					15	3	2.00	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%					15	3	3.62	NCLSHT
NBA086_6-25	25	6	6	26567.2	26567.2	0.02%					15	3	2.80	NCLSHT
NBA096_6-25	25	6	6	26259.9	26259.9	0.00%					20	4	3.79	NCLSHT
NBA0012_6-25	25	6	12	52244.8	52244.8	0.00%					18	3	11.47	NCLSHT
NBA0112_6-25	25	6	12	52482.0	52482.0	0.02%					18	3	40.40	NCLSHT
NBA0212_6-25	25	6	12	53885.6	53885.6	0.01%					30	5	11.88	NCLSHT
NBA0312_6-25	25	6	12	52230.7	52230.7	0.05%					18	3	20.49	NCLSHT
NBA0412_6-25	25	6	12	55764.7	55764.7	0.00%					30	5	42.55	NCLSHT
NBA0512_6-25	25	6	12	51650.3	51650.3	0.02%					24	4	29.49	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%					18	3	4.41	NCLSHT
NBA0712_6-25	25	6	12	52546.5	52546.5	0.03%					24	4	15.93	NCLSHT
NBA0812_6-25	25	6	12	51075.3	51075.3	0.00%					24	4	10.50	NCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_6-25	25	6	12	53467.6	53467.6	0.01%					18	3	11.39	NCLSHT
NBA0018_6-25	25	6	18	76090.1	76090.1	0.03%					32	4	77.08	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%					32	4	31.89	NCLSHT
NBA0218_6-25	25	6	18	81495.4	81495.4	0.00%					32	4	34.63	NCLSHT
NBA0318_6-25	25	6	18	79343.7	79343.7	0.00%					40	5	70.19	NCLSHT
NBA0418_6-25	25	6	18	84594.8	84594.8	0.01%					32	4	109.15	NCLSHT
NBA0518_6-25	25	6	18	80778.7	80778.7	0.00%					40	5	37.36	NCLSHT
NBA0618_6-25	25	6	18	76171.5	76171.5	0.01%					24	3	11.30	NCLSHT
NBA0718_6-25	25	6	18	77493.4	77493.4	0.01%					24	3	26.22	NCLSHT
NBA0818_6-25	25	6	18	74953.6	74953.6	0.02%					24	3	22.77	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%					24	3	20.31	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%					10	2	3.53	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%					10	2	5.12	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%					10	2	4.46	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%					10	2	2.73	NCLSHT
NBA046_6-50	50	6	6	53895.4	53895.4	0.03%					15	3	11.33	NCLSHT
NBA056_6-50	50	6	6	52668.0	52668.0	0.02%					10	2	5.34	NCLSHT
NBA066_6-50	50	6	6	51786.8	51786.8	0.00%					15	3	10.68	NCLSHT
NBA076_6-50	50	6	6	53957.4	53957.4	0.02%					15	3	4.95	NCLSHT
NBA086_6-50	50	6	6	50767.6	50767.6	0.00%					15	3	3.14	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%					10	2	2.92	NCLSHT
NBA0012_6-50	50	6	12	102386.8	102386.8	0.00%					12	2	8.67	NCLSHT
NBA0112_6-50	50	6	12	101408.3	101408.3	0.01%					18	3	14.08	NCLSHT
NBA0212_6-50	50	6	12	104862.2	104862.2	0.00%					18	3	21.32	NCLSHT
NBA0312_6-50	50	6	12	102412.9	102412.9	0.03%					18	3	15.33	NCLSHT
NBA0412_6-50	50	6	12	109571.7	109571.7	0.00%					24	4	21.12	NCLSHT
NBA0512_6-50	50	6	12	105138.8	105138.8	0.00%					18	3	35.71	NCLSHT
NBA0612_6-50	50	6	12	101769.9	101769.9	0.01%					24	4	22.93	NCLSHT
NBA0712_6-50	50	6	12	107434.2	107434.2	0.00%					12	2	8.97	NCLSHT
NBA0812_6-50	50	6	12	99745.0	99745.0	0.00%					24	4	12.20	NCLSHT
NBA0912_6-50	50	6	12	102195.6	102195.6	0.00%					24	4	19.89	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%					24	3	26.03	NCLSHT
NBA0118_6-50	50	6	18	150738.5	150738.5	0.00%					24	3	46.27	NCLSHT
NBA0218_6-50	50	6	18	154212.4	154212.4	0.00%					32	4	70.38	NCLSHT
NBA0318_6-50	50	6	18	154026.0	154026.0	0.00%					24	3	30.77	NCLSHT
NBA0418_6-50	50	6	18	164553.0	164553.0	0.00%					32	4	56.41	NCLSHT
NBA0518_6-50	50	6	18	155184.7	155184.7	0.01%					32	4	85.80	NCLSHT
NBA0618_6-50	50	6	18	153862.5	153862.5	0.00%					24	3	59.67	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%					24	3	34.72	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%					16	2	27.13	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%					32	4	25.45	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%					15	3	0.73	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%					10	2	0.26	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%					15	3	0.49	NCLSLT
NBB036_2-6	6	2	6	7760.8	7760.8	0.60%					20	4	0.57	NCLSLT
NBB046_2-6	6	2	6	7818.6	7818.6	0.26%					15	3	0.57	NCLSLT
NBB056_2-6	6	2	6	9352.5	9352.5	0.00%					10	2	0.28	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%					15	3	0.45	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%					20	4	0.70	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%					10	2	0.40	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%					15	3	0.27	NCLSLT
NBB0012_2-6	6	2	12	15499.7	15499.7	0.07%					30	5	2.40	NCLSLT
NBB0112_2-6	6	2	12	13327.9	13327.9	0.04%					18	3	1.42	NCLSLT
NBB0212_2-6	6	2	12	14645.3	14645.3	0.39%					24	4	1.77	NCLSLT
NBB0312_2-6	6	2	12	14796.6	14796.6	0.45%					24	4	1.71	NCLSLT
NBB0412_2-6	6	2	12	13686.1	13686.1	0.64%					30	5	3.16	NCLSLT
NBB0512_2-6	6	2	12	17403.9	17403.9	0.37%					24	4	1.10	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%					12	2	0.95	NCLSLT
NBB0712_2-6	6	2	12	16618.0	16618.0	0.16%					24	4	1.83	NCLSLT
NBB0812_2-6	6	2	12	14149.8	14149.8	0.07%					18	3	1.55	NCLSLT
NBB0912_2-6	6	2	12	16077.6	16077.6	0.01%					18	3	0.93	NCLSLT
NBB0018_2-6	6	2	18	21668.8	21668.8	0.13%					32	4	6.10	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%					24	3	2.11	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%					32	4	4.09	NCLSLT
NBB0418_2-6	6	2	18	20015.1	20015.1	0.00%					40	5	7.57	NCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%					32	4	2.56	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%					24	3	3.29	NCLSLT
NBB0718_2-6	6	2	18	24309.9	24309.9	0.04%					24	3	5.28	NCLSLT
NBB0818_2-6	6	2	18	20809.3	20809.3	0.00%					40	5	4.01	NCLSLT
NBB0918_2-6	6	2	18	22436.5	22436.5	0.00%					32	4	2.41	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%					10	2	0.37	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%					10	2	0.54	NCLSLT
NBB026_2-12	12	2	6	14057.0	14057.0	0.02%					20	4	1.04	NCLSLT
NBB036_2-12	12	2	6	16322.7	16322.7	0.03%					10	2	0.52	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%					10	2	0.57	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%					20	4	0.65	NCLSLT
NBB066_2-12	12	2	6	13804.5	13804.5	0.41%					10	2	0.56	NCLSLT
NBB076_2-12	12	2	6	15396.6	15396.6	0.00%					10	2	0.51	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%					10	2	0.48	NCLSLT
NBB096_2-12	12	2	6	15906.8	15906.8	0.43%					15	3	0.91	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%					18	3	1.36	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%					18	3	1.49	NCLSLT
NBB0212_2-12	12	2	12	27126.3	27126.3	0.28%					18	3	2.96	NCLSLT
NBB0312_2-12	12	2	12	31700.0	31700.0	0.07%					18	3	1.86	NCLSLT
NBB0412_2-12	12	2	12	28231.6	28231.6	0.03%					30	5	2.74	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%					18	3	1.66	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%					18	3	1.28	NCLSLT
NBB0712_2-12	12	2	12	30253.9	30253.9	0.03%					18	3	1.96	NCLSLT
NBB0812_2-12	12	2	12	26676.6	26676.6	0.19%					18	3	2.55	NCLSLT
NBB0912_2-12	12	2	12	30982.5	30982.5	0.13%					24	4	6.37	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%					24	3	2.81	NCLSLT
NBB0118_2-12	12	2	18	40347.6	40347.6	0.02%					32	4	4.98	NCLSLT
NBB0218_2-12	12	2	18	41456.0	41456.0	0.02%					40	5	12.95	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%					24	3	5.72	NCLSLT
NBB0418_2-12	12	2	18	44112.4	44112.4	0.01%					32	4	7.05	NCLSLT
NBB0518_2-12	12	2	18	47248.1	47248.1	0.02%					24	3	4.33	NCLSLT
NBB0618_2-12	12	2	18	40548.9	40548.9	0.02%					32	4	4.57	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%					16	2	3.16	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%					40	5	8.01	NCLSLT
NBB0918_2-12	12	2	18	47142.3	47142.3	0.00%					24	3	13.92	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%					10	2	0.81	NCLSLT
NBB016_2-25	25	2	6	29864.0	29864.0	0.08%					15	3	1.47	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%					10	2	1.15	NCLSLT
NBB036_2-25	25	2	6	30155.8	30155.8	0.11%					10	2	1.42	NCLSLT
NBB046_2-25	25	2	6	31325.2	31325.2	0.02%					10	2	1.19	NCLSLT
NBB056_2-25	25	2	6	31397.4	31397.4	0.13%					10	2	1.59	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%					10	2	0.55	NCLSLT
NBB076_2-25	25	2	6	31237.5	31237.5	0.03%					10	2	1.25	NCLSLT
NBB086_2-25	25	2	6	31989.1	31989.1	0.08%					15	3	1.74	NCLSLT
NBB096_2-25	25	2	6	33004.5	33004.5	0.08%					10	2	1.27	NCLSLT
NBB0012_2-25	25	2	12	58130.7	58130.7	0.01%					12	2	1.70	NCLSLT
NBB0112_2-25	25	2	12	60825.8	60825.8	0.04%					18	3	4.74	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%					24	4	4.45	NCLSLT
NBB0312_2-25	25	2	12	59102.8	59102.8	0.03%					24	4	4.07	NCLSLT
NBB0412_2-25	25	2	12	59549.5	59549.5	0.04%					30	5	4.63	NCLSLT
NBB0512_2-25	25	2	12	64774.6	64774.6	0.03%					18	3	4.07	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%					12	2	1.20	NCLSLT
NBB0712_2-25	25	2	12	62685.7	62685.7	0.00%					24	4	4.61	NCLSLT
NBB0812_2-25	25	2	12	62619.0	62619.0	0.01%					18	3	5.15	NCLSLT
NBB0912_2-25	25	2	12	63821.6	63821.6	0.03%					18	3	2.93	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%					16	2	3.23	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%					24	3	5.20	NCLSLT
NBB0218_2-25	25	2	18	83120.8	83120.8	0.01%					48	6	15.70	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%					24	3	5.33	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.00%					32	4	11.12	NCLSLT
NBB0518_2-25	25	2	18	94854.1	94854.1	0.04%					32	4	27.02	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%					24	3	2.93	NCLSLT
NBB0718_2-25	25	2	18	92028.2	92028.2	0.00%					24	3	11.12	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.00%					24	3	12.07	NCLSLT
NBB0918_2-25	25	2	18	92935.2	92935.2	0.01%					16	2	10.16	NCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%					10	2	1.38	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%					10	2	1.39	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%					10	2	1.53	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%					10	2	1.87	NCLSLT
NBB046_2-50	50	2	6	60651.7	60651.7	0.00%					10	2	2.22	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%					10	2	1.56	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%					10	2	1.50	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%					10	2	1.66	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%					10	2	2.15	NCLSLT
NBB096_2-50	50	2	6	60526.4	60526.4	0.00%					10	2	1.91	NCLSLT
NBB0012_2-50	50	2	12	117271.2	117271.2	0.00%					18	3	3.16	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%					12	2	3.13	NCLSLT
NBB0212_2-50	50	2	12	113901.0	113901.0	0.00%					12	2	5.52	NCLSLT
NBB0312_2-50	50	2	12	119786.8	119786.8	0.00%					12	2	4.81	NCLSLT
NBB0412_2-50	50	2	12	121918.2	121918.2	0.01%					18	3	8.35	NCLSLT
NBB0512_2-50	50	2	12	119153.5	119153.5	0.00%					24	4	4.96	NCLSLT
NBB0612_2-50	50	2	12	113557.4	113557.4	0.00%					12	2	2.84	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%					12	2	4.64	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%					12	2	5.65	NCLSLT
NBB0912_2-50	50	2	12	122300.2	122300.2	0.01%					18	3	5.75	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%					16	2	4.49	NCLSLT
NBB0118_2-50	50	2	18	178704.0	178704.0	0.00%					16	2	5.54	NCLSLT
NBB0218_2-50	50	2	18	169536.1	169536.1	0.00%					16	2	9.34	NCLSLT
NBB0318_2-50	50	2	18	180942.2	180942.2	0.01%					16	2	9.14	NCLSLT
NBB0418_2-50	50	2	18	181480.1	181480.1	0.01%					32	4	53.39	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%					24	3	8.40	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%					24	3	8.29	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%					16	2	7.88	NCLSLT
NBB0818_2-50	50	2	18	173342.1	173342.1	0.00%					32	4	21.03	NCLSLT
NBB0918_2-50	50	2	18	182739.8	182739.8	0.00%					24	3	15.08	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%					15	3	0.78	NCLSLT
NBB016_4-6	6	4	6	7250.9	7250.9	0.00%					20	4	1.57	NCLSLT
NBB026_4-6	6	4	6	7329.5	7329.5	0.00%					20	4	1.05	NCLSLT
NBB036_4-6	6	4	6	6717.6	6717.6	0.16%					15	3	1.07	NCLSLT
NBB046_4-6	6	4	6	5568.9	5568.9	0.00%					15	3	0.81	NCLSLT
NBB056_4-6	6	4	6	7986.1	7986.1	1.09%					15	3	2.14	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%					15	3	1.01	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%					10	2	0.56	NCLSLT
NBB086_4-6	6	4	6	5882.1	5882.1	0.32%					15	3	1.03	NCLSLT
NBB096_4-6	6	4	6	8521.1	8521.1	0.00%					10	2	0.89	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%					30	5	2.59	NCLSLT
NBB0112_4-6	6	4	12	15228.5	15228.5	0.00%					30	5	5.50	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%					24	4	4.84	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%					24	4	3.21	NCLSLT
NBB0412_4-6	6	4	12	12919.5	12919.5	0.28%					24	4	7.46	NCLSLT
NBB0512_4-6	6	4	12	15807.8	15807.8	0.00%					36	6	9.90	NCLSLT
NBB0612_4-6	6	4	12	12778.4	12778.4	0.04%					18	3	3.44	NCLSLT
NBB0712_4-6	6	4	12	14725.0	14725.0	0.08%					18	3	3.26	NCLSLT
NBB0812_4-6	6	4	12	12369.0	12369.0	0.04%					24	4	4.36	NCLSLT
NBB0912_4-6	6	4	12	14899.9	14899.9	0.43%					18	3	3.94	NCLSLT
NBB0018_4-6	6	4	18	18653.1	18653.1	0.00%					40	5	9.75	NCLSLT
NBB0118_4-6	6	4	18	21716.4	21716.4	0.00%					32	4	18.77	NCLSLT
NBB0218_4-6	6	4	18	21440.4	21440.4	0.02%					32	4	9.43	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%					24	3	8.90	NCLSLT
NBB0418_4-6	6	4	18	19969.8	19969.8	0.00%					32	4	10.61	NCLSLT
NBB0518_4-6	6	4	18	23482.1	23482.1	0.00%					40	5	22.55	NCLSLT
NBB0618_4-6	6	4	18	19871.1	19871.1	0.01%					32	4	14.49	NCLSLT
NBB0718_4-6	6	4	18	22416.2	22416.2	0.00%					32	4	8.13	NCLSLT
NBB0818_4-6	6	4	18	18186.6	18186.6	0.00%					24	3	7.83	NCLSLT
NBB0918_4-6	6	4	18	22163.4	22163.4	0.10%					24	3	8.14	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%					10	2	1.60	NCLSLT
NBB016_4-12	12	4	6	15431.2	15431.2	0.03%					15	3	2.79	NCLSLT
NBB026_4-12	12	4	6	13158.9	13158.9	0.00%					15	3	1.34	NCLSLT
NBB036_4-12	12	4	6	12376.6	12376.6	0.14%					15	3	2.17	NCLSLT
NBB046_4-12	12	4	6	14388.8	14388.8	0.17%					10	2	1.30	NCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_4-12	12	4	6	14168.8	14168.8	0.00%					20	4	2.97	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%					15	3	0.98	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%					15	3	1.25	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%					15	3	1.39	NCLSLT
NBB096_4-12	12	4	6	13306.2	13306.2	0.19%					10	2	2.02	NCLSLT
NBB0012_4-12	12	4	12	24877.9	24877.9	0.28%					36	6	10.97	NCLSLT
NBB0112_4-12	12	4	12	28650.9	28650.9	0.09%					36	6	27.57	NCLSLT
NBB0212_4-12	12	4	12	26557.8	26557.8	0.09%					30	5	8.57	NCLSLT
NBB0312_4-12	12	4	12	25486.1	25486.1	0.01%					24	4	5.96	NCLSLT
NBB0412_4-12	12	4	12	27362.0	27362.0	0.00%					24	4	5.04	NCLSLT
NBB0512_4-12	12	4	12	27994.5	27994.5	0.14%					18	3	5.60	NCLSLT
NBB0612_4-12	12	4	12	24649.4	24649.4	0.13%					24	4	2.71	NCLSLT
NBB0712_4-12	12	4	12	26360.5	26360.5	0.01%					24	4	6.01	NCLSLT
NBB0812_4-12	12	4	12	28128.6	28128.6	0.00%					18	3	4.99	NCLSLT
NBB0912_4-12	12	4	12	28655.4	28655.4	0.03%					30	5	19.90	NCLSLT
NBB0018_4-12	12	4	18	38493.6	38493.6	-0.02%					32	4	39.54	NCLSLT
NBB0118_4-12	12	4	18	42110.8	42110.8	0.04%					40	5	68.10	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%					32	4	15.39	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%					32	4	19.97	NCLSLT
NBB0418_4-12	12	4	18	40774.1	40774.1	0.05%					32	4	19.59	NCLSLT
NBB0518_4-12	12	4	18	41198.3	41198.3	0.03%					24	3	20.47	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%					24	3	7.51	NCLSLT
NBB0718_4-12	12	4	18	41242.7	41242.7	0.00%					24	3	17.67	NCLSLT
NBB0818_4-12	12	4	18	42924.2	42924.2	0.06%					32	4	13.81	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	-0.01%					32	4	46.45	NCLSLT
NBB006_4-25	25	4	6	25620.5	25620.5	0.07%					20	4	3.82	NCLSLT
NBB016_4-25	25	4	6	29513.0	29513.0	0.08%					15	3	2.69	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%					15	3	4.10	NCLSLT
NBB036_4-25	25	4	6	26071.8	26071.8	0.05%					20	4	5.31	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%					10	2	1.25	NCLSLT
NBB056_4-25	25	4	6	30184.7	30184.7	0.05%					20	4	3.79	NCLSLT
NBB066_4-25	25	4	6	25397.8	25397.8	0.05%					10	2	1.62	NCLSLT
NBB076_4-25	25	4	6	27108.5	27108.5	0.06%					15	3	5.02	NCLSLT
NBB086_4-25	25	4	6	26279.6	26279.6	0.05%					15	3	2.04	NCLSLT
NBB096_4-25	25	4	6	27956.4	27956.4	0.00%					10	2	4.38	NCLSLT
NBB0012_4-25	25	4	12	53753.3	53753.3	0.01%					30	5	21.05	NCLSLT
NBB0112_4-25	25	4	12	56372.2	56372.2	0.03%					12	2	8.42	NCLSLT
NBB0212_4-25	25	4	12	53362.1	53362.1	0.03%					18	3	12.28	NCLSLT
NBB0312_4-25	25	4	12	54139.1	54139.1	0.02%					24	4	18.29	NCLSLT
NBB0412_4-25	25	4	12	54996.3	54996.3	0.03%					18	3	7.79	NCLSLT
NBB0512_4-25	25	4	12	57159.1	57159.1	0.06%					18	3	9.94	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%					24	4	5.62	NCLSLT
NBB0712_4-25	25	4	12	55626.7	55626.7	0.02%					30	5	45.36	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%					24	4	10.60	NCLSLT
NBB0912_4-25	25	4	12	54986.0	54986.0	0.04%					24	4	27.69	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.00%					32	4	43.78	NCLSLT
NBB0118_4-25	25	4	18	83941.6	83941.6	0.03%					32	4	18.91	NCLSLT
NBB0218_4-25	25	4	18	81001.2	81001.2	0.00%					24	3	45.36	NCLSLT
NBB0318_4-25	25	4	18	80539.9	80539.9	0.01%					32	4	35.71	NCLSLT
NBB0418_4-25	25	4	18	83347.1	83347.1	0.00%					24	3	7.41	NCLSLT
NBB0518_4-25	25	4	18	84476.2	84476.2	0.03%					32	4	44.25	NCLSLT
NBB0618_4-25	25	4	18	77436.2	77436.2	0.03%					24	3	9.66	NCLSLT
NBB0718_4-25	25	4	18	82782.0	82782.0	0.00%					24	3	64.67	NCLSLT
NBB0818_4-25	25	4	18	78546.3	78546.3	0.03%					32	4	19.36	NCLSLT
NBB0918_4-25	25	4	18	82461.8	82461.8	0.00%					24	3	38.89	NCLSLT
NBB006_4-50	50	4	6	54642.1	54642.1	0.01%					10	2	3.27	NCLSLT
NBB016_4-50	50	4	6	55422.0	55422.0	0.01%					10	2	3.15	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%					15	3	4.76	NCLSLT
NBB036_4-50	50	4	6	55312.6	55312.6	0.08%					15	3	14.49	NCLSLT
NBB046_4-50	50	4	6	56935.8	56935.8	0.03%					15	3	10.09	NCLSLT
NBB056_4-50	50	4	6	57378.1	57378.1	0.01%					20	4	4.16	NCLSLT
NBB066_4-50	50	4	6	52877.4	52877.4	0.01%					15	3	3.91	NCLSLT
NBB076_4-50	50	4	6	51700.3	51700.3	0.05%					20	4	6.65	NCLSLT
NBB086_4-50	50	4	6	52926.5	52926.5	0.01%					10	2	3.91	NCLSLT
NBB096_4-50	50	4	6	60176.0	60176.0	0.02%					10	2	3.24	NCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_4-50	50	4	12	110453.6	110453.6	0.00%					18	3	25.34	NCLSLT
NBB0112_4-50	50	4	12	108491.1	108491.1	0.01%					18	3	10.67	NCLSLT
NBB0212_4-50	50	4	12	108038.6	108038.6	0.02%					12	2	12.98	NCLSLT
NBB0312_4-50	50	4	12	110209.8	110209.8	0.01%					24	4	20.21	NCLSLT
NBB0412_4-50	50	4	12	109745.0	109745.0	0.02%					24	4	40.47	NCLSLT
NBB0512_4-50	50	4	12	112014.1	112014.1	0.00%					12	2	6.49	NCLSLT
NBB0612_4-50	50	4	12	104018.2	104018.2	0.00%					12	2	5.47	NCLSLT
NBB0712_4-50	50	4	12	106648.9	106648.9	0.00%					18	3	36.64	NCLSLT
NBB0812_4-50	50	4	12	106520.5	106520.5	0.00%					18	3	6.67	NCLSLT
NBB0912_4-50	50	4	12	114395.3	114395.3	0.01%					18	3	13.68	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.00%					24	3	31.12	NCLSLT
NBB0118_4-50	50	4	18	161831.1	161831.1	0.00%					24	3	25.12	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.00%					24	3	25.99	NCLSLT
NBB0318_4-50	50	4	18	163399.6	163399.6	0.00%					40	5	113.10	NCLSLT
NBB0418_4-50	50	4	18	166618.6	166618.6	0.00%					40	5	106.73	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.00%					32	4	22.36	NCLSLT
NBB0618_4-50	50	4	18	156366.5	156366.5	0.00%					24	3	17.61	NCLSLT
NBB0718_4-50	50	4	18	161798.8	161798.8	-0.01%					40	5	108.97	NCLSLT
NBB0818_4-50	50	4	18	157363.6	157363.6	0.00%					32	4	15.95	NCLSLT
NBB0918_4-50	50	4	18	168535.8	168535.8	0.00%					24	3	25.07	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%					15	3	1.10	NCLSLT
NBB016_6-6	6	6	6	7366.8	7366.8	0.10%					25	5	3.46	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%					20	4	1.30	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%					20	4	1.52	NCLSLT
NBB046_6-6	6	6	6	8168.9	8168.9	0.00%					15	3	2.20	NCLSLT
NBB056_6-6	6	6	6	8078.2	8078.2	0.13%					15	3	1.90	NCLSLT
NBB066_6-6	6	6	6	6775.2	6775.2	0.01%					20	4	1.48	NCLSLT
NBB076_6-6	6	6	6	7827.1	7827.1	0.00%					15	3	2.10	NCLSLT
NBB086_6-6	6	6	6	6762.7	6762.7	0.54%					15	3	2.46	NCLSLT
NBB096_6-6	6	6	6	7634.2	7634.2	0.43%					20	4	3.05	NCLSLT
NBB0012_6-6	6	6	12	12227.8	12227.8	0.21%					18	3	2.79	NCLSLT
NBB0112_6-6	6	6	12	14405.9	14405.9	0.03%					30	5	7.17	NCLSLT
NBB0212_6-6	6	6	12	14387.2	14387.2	0.15%					24	4	8.97	NCLSLT
NBB0312_6-6	6	6	12	14894.5	14894.5	0.11%					18	3	5.97	NCLSLT
NBB0412_6-6	6	6	12	15171.2	15171.2	0.23%					24	4	9.90	NCLSLT
NBB0512_6-6	6	6	12	14869.1	14869.1	0.22%					18	3	6.64	NCLSLT
NBB0612_6-6	6	6	12	12876.5	12876.5	0.00%					18	3	7.44	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%					24	4	8.32	NCLSLT
NBB0812_6-6	6	6	12	12706.2	12706.2	0.06%					30	5	9.30	NCLSLT
NBB0912_6-6	6	6	12	14430.9	14430.9	0.23%					18	3	9.43	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%					24	3	9.11	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%					32	4	18.24	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%					40	5	17.65	NCLSLT
NBB0418_6-6	6	6	18	22535.8	22535.8	0.05%					24	3	23.12	NCLSLT
NBB0518_6-6	6	6	18	22510.3	22510.3	0.00%					40	5	15.18	NCLSLT
NBB0618_6-6	6	6	18	20325.8	20325.8	0.09%					32	4	23.41	NCLSLT
NBB0718_6-6	6	6	18	22122.5	22122.5	0.00%					24	3	20.91	NCLSLT
NBB0818_6-6	6	6	18	20390.0	20390.0	0.28%					32	4	27.20	NCLSLT
NBB0918_6-6	6	6	18	21833.6	21833.6	0.07%					32	4	37.73	NCLSLT
NBB006_6-12	12	6	6	12846.9	12846.9	0.14%					15	3	3.03	NCLSLT
NBB016_6-12	12	6	6	13180.7	13180.7	0.13%					20	4	3.65	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%					20	4	2.57	NCLSLT
NBB036_6-12	12	6	6	13037.8	13037.8	0.15%					10	2	1.45	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%					15	3	1.97	NCLSLT
NBB056_6-12	12	6	6	12410.7	12410.7	0.00%					15	3	1.82	NCLSLT
NBB066_6-12	12	6	6	11748.5	11748.5	0.18%					10	2	2.17	NCLSLT
NBB076_6-12	12	6	6	13651.8	13651.8	0.05%					15	3	6.99	NCLSLT
NBB086_6-12	12	6	6	13543.9	13543.9	0.11%					20	4	4.43	NCLSLT
NBB096_6-12	12	6	6	14426.6	14426.6	0.00%					20	4	4.94	NCLSLT
NBB0012_6-12	12	6	12	24320.5	24320.5	0.13%					18	3	7.56	NCLSLT
NBB0112_6-12	12	6	12	25794.9	25794.9	0.05%					24	4	10.85	NCLSLT
NBB0212_6-12	12	6	12	24331.1	24331.1	0.18%					24	4	22.29	NCLSLT
NBB0312_6-12	12	6	12	26662.3	26662.3	0.00%					24	4	6.76	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%					18	3	5.31	NCLSLT
NBB0512_6-12	12	6	12	26440.4	26440.4	0.12%					24	4	15.08	NCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0612_6-12	12	6	12	23739.4	23739.4	0.07%					30	5	13.35	NCLSLT
NBB0712_6-12	12	6	12	28226.4	28226.4	0.11%					24	4	30.64	NCLSLT
NBB0812_6-12	12	6	12	26084.2	26084.2	0.04%					24	4	24.18	NCLSLT
NBB0912_6-12	12	6	12	27523.8	27523.8	0.07%					24	4	23.06	NCLSLT
NBB0018_6-12	12	6	18	36609.7	36609.7	0.00%					32	4	26.00	NCLSLT
NBB0118_6-12	12	6	18	41384.9	41384.9	0.01%					32	4	32.50	NCLSLT
NBB0218_6-12	12	6	18	37095.0	37095.0	0.05%					32	4	48.34	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%					48	6	25.31	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%					32	4	15.52	NCLSLT
NBB0518_6-12	12	6	18	40713.7	40713.7	0.04%					32	4	24.29	NCLSLT
NBB0618_6-12	12	6	18	37562.0	37562.0	0.00%					40	5	76.84	NCLSLT
NBB0718_6-12	12	6	18	41792.5	41792.5	0.05%					40	5	111.10	NCLSLT
NBB0818_6-12	12	6	18	39727.0	39727.0	0.08%					40	5	110.21	NCLSLT
NBB0918_6-12	12	6	18	41490.9	41490.9	0.00%					40	5	80.09	NCLSLT
NBB006_6-25	25	6	6	25735.7	25735.7	0.03%					15	3	21.89	NCLSLT
NBB016_6-25	25	6	6	25441.2	25441.2	0.01%					20	4	10.17	NCLSLT
NBB026_6-25	25	6	6	26826.7	26826.7	0.00%					15	3	6.43	NCLSLT
NBB036_6-25	25	6	6	26883.9	26883.9	0.06%					20	4	13.56	NCLSLT
NBB046_6-25	25	6	6	28629.7	28629.7	0.13%					20	4	36.74	NCLSLT
NBB056_6-25	25	6	6	26354.1	26354.1	0.03%					15	3	11.36	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%					15	3	6.08	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%					20	4	9.20	NCLSLT
NBB086_6-25	25	6	6	26727.2	26727.2	0.04%					20	4	20.00	NCLSLT
NBB096_6-25	25	6	6	26434.6	26434.6	0.07%					15	3	5.26	NCLSLT
NBB0012_6-25	25	6	12	52549.6	52549.6	0.00%					18	3	43.12	NCLSLT
NBB0112_6-25	25	6	12	52734.1	52734.1	0.02%					24	4	73.77	NCLSLT
NBB0212_6-25	25	6	12	54086.5	54086.5	0.01%					30	5	29.91	NCLSLT
NBB0312_6-25	25	6	12	52596.9	52596.9	0.08%					18	3	57.89	NCLSLT
NBB0412_6-25	25	6	12	56126.9	56126.9	0.01%					24	4	91.17	NCLSLT
NBB0512_6-25	25	6	12	51917.2	51917.2	0.02%					18	3	43.29	NCLSLT
NBB0612_6-25	25	6	12	51037.6	51037.6	0.00%					24	4	10.14	NCLSLT
NBB0712_6-25	25	6	12	52855.5	52855.5	0.03%					36	6	47.54	NCLSLT
NBB0812_6-25	25	6	12	51287.2	51287.2	0.02%					18	3	28.71	NCLSLT
NBB0912_6-25	25	6	12	53721.2	53721.2	0.01%					30	5	50.72	NCLSLT
NBB0018_6-25	25	6	18	76591.0	76591.0	-0.02%					48	6	227.11	NCLSLT
NBB0118_6-25	25	6	18	79518.8	79518.8	0.00%					32	4	100.32	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.00%					24	3	65.59	NCLSLT
NBB0318_6-25	25	6	18	80020.5	80020.5	0.01%					32	4	260.56	NCLSLT
NBB0418_6-25	25	6	18	85065.5	85065.5	0.00%					32	4	198.14	NCLSLT
NBB0518_6-25	25	6	18	81134.1	81134.1	0.00%					32	4	111.97	NCLSLT
NBB0618_6-25	25	6	18	76384.6	76384.6	0.01%					32	4	26.42	NCLSLT
NBB0718_6-25	25	6	18	77905.1	77905.1	0.00%					40	5	163.74	NCLSLT
NBB0818_6-25	25	6	18	75247.2	75247.2	0.01%					40	5	120.85	NCLSLT
NBB0918_6-25	25	6	18	81478.5	81478.5	0.01%					32	4	82.44	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%					20	4	12.37	NCLSLT
NBB016_6-50	50	6	6	50711.5	50711.5	0.05%					10	2	14.41	NCLSLT
NBB026_6-50	50	6	6	52246.9	52246.9	0.02%					20	4	54.25	NCLSLT
NBB036_6-50	50	6	6	51745.7	51745.7	0.00%					15	3	10.63	NCLSLT
NBB046_6-50	50	6	6	54094.4	54094.4	0.03%					10	2	26.67	NCLSLT
NBB056_6-50	50	6	6	52838.4	52838.4	0.03%					15	3	24.16	NCLSLT
NBB066_6-50	50	6	6	52053.6	52053.6	0.01%					20	4	38.46	NCLSLT
NBB076_6-50	50	6	6	54031.6	54031.6	0.02%					10	2	5.54	NCLSLT
NBB086_6-50	50	6	6	50947.9	50947.9	0.00%					25	5	38.00	NCLSLT
NBB096_6-50	50	6	6	50718.5	50718.5	0.01%					15	3	13.29	NCLSLT
NBB0012_6-50	50	6	12	102544.9	102544.9	0.00%					24	4	40.09	NCLSLT
NBB0112_6-50	50	6	12	101609.4	101609.4	0.01%					18	3	40.18	NCLSLT
NBB0212_6-50	50	6	12	105230.1	105230.1	0.00%					18	3	88.94	NCLSLT
NBB0312_6-50	50	6	12	102668.6	102668.6	0.01%					18	3	37.78	NCLSLT
NBB0412_6-50	50	6	12	109858.7	109858.7	0.00%					30	5	103.45	NCLSLT
NBB0512_6-50	50	6	12	105524.4	105524.4	0.04%					24	4	66.76	NCLSLT
NBB0612_6-50	50	6	12	102220.1	102220.1	0.03%					30	5	124.15	NCLSLT
NBB0712_6-50	50	6	12	107659.6	107659.6	0.02%					18	3	48.94	NCLSLT
NBB0812_6-50	50	6	12	100014.2	100014.2	0.03%					24	4	45.08	NCLSLT
NBB0912_6-50	50	6	12	102437.7	102437.7	0.01%					18	3	49.99	NCLSLT
NBB0018_6-50	50	6	18	152967.2	152967.2	0.01%					32	4	146.30	NCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_6-50	50	6	18	151111.8	151111.8	0.00%					32	4	110.93	NCLSLT
NBB0218_6-50	50	6	18	154664.9	154664.9	0.01%					24	3	158.95	NCLSLT
NBB0318_6-50	50	6	18	154349.1	154349.1	0.00%					32	4	88.83	NCLSLT
NBB0418_6-50	50	6	18	165001.6	165001.6	0.01%					32	4	186.77	NCLSLT
NBB0518_6-50	50	6	18	155549.1	155549.1	0.00%					40	5	196.42	NCLSLT
NBB0618_6-50	50	6	18	154565.6	154565.6	0.01%					32	4	269.47	NCLSLT
NBB0718_6-50	50	6	18	159225.5	159225.5	0.00%					32	4	158.62	NCLSLT
NBB0818_6-50	50	6	18	151168.2	151168.2	0.00%					48	6	121.78	NCLSLT
NBB0918_6-50	50	6	18	154285.2	154285.2	0.00%					32	4	99.92	NCLSLT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.73	TCHSHT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.72	TCHSHT
AAA016_2-6	6	2	6	12283.2	12283.2	5.46%					10	2	0.74	TCHSHT
AAA026_2-6	6	2	6	15202.8	15202.8	1.62%					30	6	0.76	TCHSHT
AAA036_2-6	6	2	6	21940015117.5	21940015316.9	100.00%					10	2	0.42	TCHSHT
AAA046_2-6	6	2	6	17345.2	17345.2	0.00%					10	2	0.50	TCHSHT
AAA056_2-6	6	2	6	18337.5	18337.5	7.39%					10	2	0.49	TCHSHT
AAA066_2-6	6	2	6	16931.2	16931.2	0.83%					15	3	0.64	TCHSHT
AAA076_2-6	6	2	6	2400017492.4	2400017493.2	100.00%					10	2	0.43	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%					10	2	0.33	TCHSHT
AAA096_2-6	6	2	6	13475.9	13475.9	2.42%					20	4	0.59	TCHSHT
AAA0012_2-6	6	2	12	24990.5	24990.5	1.72%					30	5	1.91	TCHSHT
AAA0112_2-6	6	2	12	24861.9	24861.9	2.45%					36	6	4.06	TCHSHT
AAA0212_2-6	6	2	12	27472.1	27472.1	0.00%					24	4	2.01	TCHSHT
AAA0412_2-6	6	2	12	29853.0	29853.0	4.33%					36	6	3.95	TCHSHT
AAA0512_2-6	6	2	12	32648.8	32648.8	2.98%					24	4	2.55	TCHSHT
AAA0612_2-6	6	2	12	28845.3	28845.3	0.00%					24	4	1.93	TCHSHT
AAA0712_2-6	6	2	12	28013.5	28013.5	2.00%					24	4	2.88	TCHSHT
AAA0812_2-6	6	2	12	22547.3	22547.3	0.23%					30	5	1.68	TCHSHT
AAA0912_2-6	6	2	12	28311.6	28311.6	1.95%					36	6	2.89	TCHSHT
AAA0018_2-6	6	2	18	33983.3	33983.3	0.38%					40	5	8.73	TCHSHT
AAA0118_2-6	6	2	18	34195.8	34195.8	0.02%					32	4	8.12	TCHSHT
AAA0218_2-6	6	2	18	40189.8	40189.8	1.25%					32	4	4.99	TCHSHT
AAA0418_2-6	6	2	18	37979.5	37979.5	2.02%					48	6	13.45	TCHSHT
AAA0518_2-6	6	2	18	43350.8	43350.8	1.43%					64	8	9.27	TCHSHT
AAA0618_2-6	6	2	18	39895.0	39895.0	1.07%					48	6	5.09	TCHSHT
AAA0718_2-6	6	2	18	39999.7	39999.7	0.94%					32	4	7.60	TCHSHT
AAA0818_2-6	6	2	18	32279.2	32279.2	0.80%					40	5	3.84	TCHSHT
AAA0918_2-6	6	2	18	36624.3	36624.3	0.95%					56	7	7.65	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%					10	2	0.72	TCHSHT
AAA016_2-12	12	2	6	25835.3	25835.3	1.24%					15	3	1.18	TCHSHT
AAA026_2-12	12	2	6	27180.2	27180.2	0.94%					10	2	1.16	TCHSHT
AAA036_2-12	12	2	6	30163.0	30163.0	1.13%					15	3	1.49	TCHSHT
AAA046_2-12	12	2	6	26132.4	26132.4	0.80%					15	3	1.02	TCHSHT
AAA056_2-12	12	2	6	30284.3	30284.3	1.39%					10	2	1.30	TCHSHT
AAA066_2-12	12	2	6	26649.9	26649.9	1.76%					10	2	1.02	TCHSHT
AAA076_2-12	12	2	6	27066.4	27066.4	3.58%					10	2	0.65	TCHSHT
AAA086_2-12	12	2	6	24651.5	24651.5	0.28%					20	4	1.38	TCHSHT
AAA096_2-12	12	2	6	28361.3	28361.3	0.76%					25	5	1.59	TCHSHT
AAA0012_2-12	12	2	12	42441.1	42441.1	0.84%					12	2	5.35	TCHSHT
AAA0112_2-12	12	2	12	42482.7	42482.7	0.56%					24	4	5.32	TCHSHT
AAA0212_2-12	12	2	12	45405.9	45405.9	1.21%					24	4	5.73	TCHSHT
AAA0312_2-12	12	2	12	54294.5	54294.5	1.31%					36	6	10.34	TCHSHT
AAA0412_2-12	12	2	12	45742.9	45742.9	0.38%					30	5	3.75	TCHSHT
AAA0512_2-12	12	2	12	54068.7	54068.7	1.60%					24	4	5.99	TCHSHT
AAA0612_2-12	12	2	12	47223.5	47223.5	1.64%					24	4	5.12	TCHSHT
AAA0712_2-12	12	2	12	49730.4	49730.4	0.40%					42	7	5.88	TCHSHT
AAA0812_2-12	12	2	12	42561.0	42561.0	1.01%					30	5	3.58	TCHSHT
AAA0912_2-12	12	2	12	52254.9	52254.9	0.56%					48	8	10.38	TCHSHT
AAA0118_2-12	12	2	18	63269.6	63269.6	0.32%					32	4	15.81	TCHSHT
AAA0218_2-12	12	2	18	66855.0	66855.0	0.27%					48	6	27.01	TCHSHT
AAA0318_2-12	12	2	18	76645.5	76645.5	0.25%					40	5	24.88	TCHSHT
AAA0418_2-12	12	2	18	68526.7	68526.7	0.38%					48	6	20.34	TCHSHT
AAA0518_2-12	12	2	18	74998.1	74998.1	0.26%					48	6	23.65	TCHSHT
AAA0618_2-12	12	2	18	68033.8	68033.8	1.37%					48	6	22.88	TCHSHT
AAA0718_2-12	12	2	18	68309.5	68309.5	0.06%					32	4	7.37	TCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0818_2-12	12	2	18	66081.9	66081.9	0.62%					40	5	27.73	TCHSHT
AAA0918_2-12	12	2	18	74915.1	74915.1	0.82%					56	7	43.05	TCHSHT
AAA006_2-25	25	2	6	49702.0	49702.0	0.94%					10	2	2.54	TCHSHT
AAA016_2-25	25	2	6	50428.5	50428.5	0.95%					10	2	1.65	TCHSHT
AAA026_2-25	25	2	6	53905.9	53905.9	0.94%					15	3	3.54	TCHSHT
AAA036_2-25	25	2	6	55643.4	55643.4	1.40%					10	2	1.60	TCHSHT
AAA046_2-25	25	2	6	56247.0	56247.0	0.11%					10	2	1.49	TCHSHT
AAA056_2-25	25	2	6	59414.4	59414.4	1.04%					15	3	3.05	TCHSHT
AAA066_2-25	25	2	6	47786.3	47786.3	1.01%					10	2	1.31	TCHSHT
AAA076_2-25	25	2	6	53574.7	53574.7	0.50%					15	3	3.08	TCHSHT
AAA086_2-25	25	2	6	56941.6	56941.6	0.55%					15	3	2.68	TCHSHT
AAA096_2-25	25	2	6	63525.9	63525.9	1.42%					15	3	3.50	TCHSHT
AAA0012_2-25	25	2	12	90848.7	90848.7	0.47%					18	3	10.56	TCHSHT
AAA0112_2-25	25	2	12	95910.0	95910.0	0.10%					12	2	4.35	TCHSHT
AAA0212_2-25	25	2	12	93835.3	93835.3	0.83%					24	4	24.72	TCHSHT
AAA0312_2-25	25	2	12	97357.1	97357.1	0.66%					18	3	10.75	TCHSHT
AAA0412_2-25	25	2	12	96215.9	96215.9	0.33%					24	4	16.08	TCHSHT
AAA0512_2-25	25	2	12	109443.7	109443.7	0.58%					30	5	36.58	TCHSHT
AAA0612_2-25	25	2	12	92123.3	92123.3	0.11%					30	5	9.58	TCHSHT
AAA0712_2-25	25	2	12	97574.6	97574.6	0.52%					18	3	9.36	TCHSHT
AAA0812_2-25	25	2	12	101243.3	101243.3	0.36%					30	5	20.07	TCHSHT
AAA0912_2-25	25	2	12	106849.0	106849.0	0.75%					24	4	28.73	TCHSHT
AAA0018_2-25	25	2	18	130962.9	130962.9	0.28%					32	4	42.21	TCHSHT
AAA0118_2-25	25	2	18	134562.3	134562.3	0.09%					48	6	45.41	TCHSHT
AAA0218_2-25	25	2	18	132674.0	132674.0	-0.06%					40	5	68.44	TCHSHT
AAA0318_2-25	25	2	18	145107.6	145107.6	0.28%					40	5	38.09	TCHSHT
AAA0418_2-25	25	2	18	139451.9	139451.9	0.05%					48	6	60.81	TCHSHT
AAA0518_2-25	25	2	18	152470.7	152470.7	0.41%					40	5	84.85	TCHSHT
AAA0618_2-25	25	2	18	129555.9	129555.9	0.45%					40	5	42.71	TCHSHT
AAA0718_2-25	25	2	18	143769.6	143769.6	0.06%					56	7	84.57	TCHSHT
AAA0818_2-25	25	2	18	141787.4	141787.4	0.15%					48	6	89.42	TCHSHT
AAA0918_2-25	25	2	18	153224.7	153224.7	0.55%					56	7	125.49	TCHSHT
AAA006_2-50	50	2	6	97169.9	97169.9	0.10%					10	2	3.21	TCHSHT
AAA016_2-50	50	2	6	100598.0	100598.0	0.29%					10	2	2.78	TCHSHT
AAA026_2-50	50	2	6	98867.1	98867.1	0.28%					20	4	6.67	TCHSHT
AAA036_2-50	50	2	6	106336.6	106336.6	0.21%					15	3	7.38	TCHSHT
AAA046_2-50	50	2	6	112958.5	112958.5	0.25%					20	4	16.39	TCHSHT
AAA056_2-50	50	2	6	110274.0	110274.0	0.03%					10	2	7.54	TCHSHT
AAA066_2-50	50	2	6	99153.1	99153.1	0.16%					10	2	4.81	TCHSHT
AAA076_2-50	50	2	6	106548.1	106548.1	0.29%					10	2	7.13	TCHSHT
AAA086_2-50	50	2	6	102958.0	102958.0	0.07%					20	4	8.57	TCHSHT
AAA096_2-50	50	2	6	107963.7	107963.7	0.08%					15	3	3.66	TCHSHT
AAA0012_2-50	50	2	12	180091.1	180091.1	0.14%					18	3	19.06	TCHSHT
AAA0112_2-50	50	2	12	187059.0	187059.0	0.20%					18	3	23.74	TCHSHT
AAA0212_2-50	50	2	12	181245.8	181245.8	0.22%					24	4	24.73	TCHSHT
AAA0312_2-50	50	2	12	192736.5	192736.5	0.11%					24	4	21.32	TCHSHT
AAA0412_2-50	50	2	12	201226.4	201226.4	0.19%					24	4	63.73	TCHSHT
AAA0512_2-50	50	2	12	198097.3	198097.3	0.11%					30	5	28.17	TCHSHT
AAA0612_2-50	50	2	12	177532.8	177532.8	0.17%					30	5	24.79	TCHSHT
AAA0712_2-50	50	2	12	191271.5	191271.5	0.47%					24	4	65.85	TCHSHT
AAA0812_2-50	50	2	12	183302.8	183302.8	0.09%					18	3	20.31	TCHSHT
AAA0912_2-50	50	2	12	195407.4	195407.4	0.14%					36	6	85.89	TCHSHT
AAA0018_2-50	50	2	18	262050.4	262050.4	0.07%					32	4	45.89	TCHSHT
AAA0118_2-50	50	2	18	270368.6	270368.6	0.05%					24	3	55.21	TCHSHT
AAA0218_2-50	50	2	18	261227.1	261227.1	0.12%					48	6	135.14	TCHSHT
AAA0318_2-50	50	2	18	282381.9	282381.9	0.04%					48	6	68.48	TCHSHT
AAA0418_2-50	50	2	18	293295.9	293295.9	0.18%					48	6	215.68	TCHSHT
AAA0518_2-50	50	2	18	287870.2	287870.2	0.05%					40	5	95.00	TCHSHT
AAA0618_2-50	50	2	18	259622.1	259622.1	0.07%					40	5	61.85	TCHSHT
AAA0718_2-50	50	2	18	274261.6	274261.6	0.11%					32	4	128.85	TCHSHT
AAA0818_2-50	50	2	18	265824.0	265824.0	0.02%					32	4	58.52	TCHSHT
AAA0918_2-50	50	2	18	284179.9	284179.9	0.02%					32	4	105.04	TCHSHT
AAA006_4-6	6	4	6	9638.8	9638.8	0.00%					15	3	0.84	TCHSHT
AAA016_4-6	6	4	6	12796.9	12796.9	4.19%					20	4	1.96	TCHSHT
AAA026_4-6	6	4	6	12068.0	12068.0	0.00%					20	4	1.20	TCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA036_4-6	6	4	6	12615.1	12615.1	0.00%					15	3	0.88	TCHSHT
AAA046_4-6	6	4	6	10966.8	10966.8	2.52%					15	3	2.45	TCHSHT
AAA056_4-6	6	4	6	16347.9	16347.9	5.88%					15	3	1.11	TCHSHT
AAA066_4-6	6	4	6	12432.1	12432.1	1.16%					20	4	1.19	TCHSHT
AAA076_4-6	6	4	6	14305.2	14305.2	3.77%					15	3	0.91	TCHSHT
AAA086_4-6	6	4	6	10059.2	10059.2	1.20%					20	4	0.81	TCHSHT
AAA096_4-6	6	4	6	15047.3	15047.3	1.84%					20	4	1.35	TCHSHT
AAA0012_4-6	6	4	12	17842.6	17842.6	0.10%					30	5	4.27	TCHSHT
AAA0112_4-6	6	4	12	25424.8	25424.8	0.93%					36	6	13.59	TCHSHT
AAA0212_4-6	6	4	12	23379.9	23379.9	1.41%					24	4	5.60	TCHSHT
AAA0312_4-6	6	4	12	25693.0	25693.0	0.54%					36	6	3.19	TCHSHT
AAA0412_4-6	6	4	12	23528.9	23528.9	0.27%					36	6	10.12	TCHSHT
AAA0512_4-6	6	4	12	30743.4	30743.4	1.59%					24	4	6.32	TCHSHT
AAA0612_4-6	6	4	12	21926.0	21926.0	1.65%					24	4	3.26	TCHSHT
AAA0712_4-6	6	4	12	24512.0	24512.0	0.24%					24	4	3.51	TCHSHT
AAA0812_4-6	6	4	12	21460.2	21460.2	1.54%					36	6	12.45	TCHSHT
AAA0912_4-6	6	4	12	26049.8	26049.8	0.21%					24	4	4.20	TCHSHT
AAA0018_4-6	6	4	18	27437.2	27437.2	0.23%					32	4	13.43	TCHSHT
AAA0118_4-6	6	4	18	33631.8	33631.8	0.93%					56	7	32.36	TCHSHT
AAA0218_4-6	6	4	18	33517.0	33517.0	1.02%					40	5	17.88	TCHSHT
AAA0318_4-6	6	4	18	38927.1	38927.1	0.00%					40	5	12.96	TCHSHT
AAA0418_4-6	6	4	18	35440.8	35440.8	1.53%					48	6	32.92	TCHSHT
AAA0518_4-6	6	4	18	43015.7	43015.7	0.51%					40	5	14.52	TCHSHT
AAA0618_4-6	6	4	18	33543.8	33543.8	0.62%					40	5	10.86	TCHSHT
AAA0718_4-6	6	4	18	37113.5	37113.5	0.51%					40	5	16.77	TCHSHT
AAA0818_4-6	6	4	18	28015.4	28015.4	0.29%					40	5	19.50	TCHSHT
AAA0918_4-6	6	4	18	38549.5	38549.5	0.78%					32	4	22.19	TCHSHT
AAA006_4-12	12	4	6	20488.7	20488.7	0.29%					20	4	2.68	TCHSHT
AAA016_4-12	12	4	6	23838.0	23838.0	0.33%					25	5	6.05	TCHSHT
AAA026_4-12	12	4	6	19040.6	19040.6	1.17%					20	4	1.87	TCHSHT
AAA036_4-12	12	4	6	21020.1	21020.1	1.42%					25	5	3.43	TCHSHT
AAA046_4-12	12	4	6	23054.3	23054.3	0.00%					20	4	3.21	TCHSHT
AAA056_4-12	12	4	6	24490.5	24490.5	1.31%					15	3	1.97	TCHSHT
AAA066_4-12	12	4	6	21551.8	21551.8	1.68%					20	4	3.08	TCHSHT
AAA076_4-12	12	4	6	22481.5	22481.5	4.60%					20	4	17.22	TCHSHT
AAA086_4-12	12	4	6	22840.2	22840.2	0.71%					15	3	1.93	TCHSHT
AAA096_4-12	12	4	6	22126.2	22126.2	0.00%					20	4	2.98	TCHSHT
AAA0012_4-12	12	4	12	36719.6	36719.6	0.38%					24	4	20.61	TCHSHT
AAA0112_4-12	12	4	12	42169.9	42169.9	1.08%					30	5	43.43	TCHSHT
AAA0212_4-12	12	4	12	37595.0	37595.0	0.56%					24	4	12.05	TCHSHT
AAA0312_4-12	12	4	12	41229.9	41229.9	0.84%					24	4	15.79	TCHSHT
AAA0412_4-12	12	4	12	42736.6	42736.6	0.53%					24	4	19.35	TCHSHT
AAA0512_4-12	12	4	12	46519.5	46519.5	0.95%					36	6	31.31	TCHSHT
AAA0612_4-12	12	4	12	40384.8	40384.8	0.91%					30	5	18.27	TCHSHT
AAA0712_4-12	12	4	12	43327.7	43327.7	1.02%					42	7	43.31	TCHSHT
AAA0812_4-12	12	4	12	41907.1	41907.1	0.20%					24	4	5.20	TCHSHT
AAA0912_4-12	12	4	12	45636.4	45636.4	1.41%					36	6	53.81	TCHSHT
AAA0018_4-12	12	4	18	54767.7	54767.7	0.37%					40	5	44.35	TCHSHT
AAA0118_4-12	12	4	18	61128.7	61128.7	0.13%					40	5	64.11	TCHSHT
AAA0218_4-12	12	4	18	53992.6	53992.6	0.35%					40	5	20.57	TCHSHT
AAA0318_4-12	12	4	18	62703.1	62703.1	0.27%					40	5	44.85	TCHSHT
AAA0418_4-12	12	4	18	63405.0	63405.0	0.17%					40	5	59.79	TCHSHT
AAA0518_4-12	12	4	18	67740.6	67740.6	1.14%					32	4	51.50	TCHSHT
AAA0618_4-12	12	4	18	59535.7	59535.7	0.12%					40	5	25.37	TCHSHT
AAA0718_4-12	12	4	18	66314.1	66314.1	0.30%					64	8	121.04	TCHSHT
AAA0818_4-12	12	4	18	63710.1	63710.1	0.43%					48	6	35.84	TCHSHT
AAA0918_4-12	12	4	18	63832.6	63832.6	0.16%					48	6	41.90	TCHSHT
AAA006_4-25	25	4	6	37846.8	37846.8	0.34%					15	3	6.48	TCHSHT
AAA016_4-25	25	4	6	46446.7	46446.7	0.66%					20	4	10.21	TCHSHT
AAA026_4-25	25	4	6	43949.4	43949.4	1.03%					15	3	13.27	TCHSHT
AAA036_4-25	25	4	6	43623.8	43623.8	1.02%					15	3	10.13	TCHSHT
AAA046_4-25	25	4	6	44865.5	44865.5	1.46%					20	4	17.48	TCHSHT
AAA056_4-25	25	4	6	48279.7	48279.7	0.59%					35	7	27.40	TCHSHT
AAA066_4-25	25	4	6	38422.9	38422.9	0.27%					15	3	2.31	TCHSHT
AAA076_4-25	25	4	6	43882.2	43882.2	0.24%					15	3	14.11	TCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA086_4-25	25	4	6	41015.4	41015.4	1.41%					20	4	6.55	TCHSHT
AAA096_4-25	25	4	6	46686.0	46686.0	0.81%					20	4	20.96	TCHSHT
AAA0012_4-25	25	4	12	75577.5	75577.5	0.08%					36	6	36.67	TCHSHT
AAA0112_4-25	25	4	12	84634.5	84634.5	0.79%					24	4	66.42	TCHSHT
AAA0212_4-25	25	4	12	80256.6	80256.6	0.55%					24	4	80.01	TCHSHT
AAA0312_4-25	25	4	12	84310.1	84310.1	0.52%					30	5	57.83	TCHSHT
AAA0412_4-25	25	4	12	84871.4	84871.4	0.61%					30	5	54.72	TCHSHT
AAA0512_4-25	25	4	12	88119.2	88119.2	0.80%					36	6	71.86	TCHSHT
AAA0612_4-25	25	4	12	74458.6	74458.6	0.35%					30	5	23.53	TCHSHT
AAA0712_4-25	25	4	12	84378.9	84378.9	0.08%					36	6	60.26	TCHSHT
AAA0812_4-25	25	4	12	79168.4	79168.4	0.22%					30	5	51.87	TCHSHT
AAA0912_4-25	25	4	12	85436.0	85436.0	0.63%					24	4	27.58	TCHSHT
AAA0018_4-25	25	4	18	109951.0	109951.0	0.18%					32	4	85.92	TCHSHT
AAA0118_4-25	25	4	18	122493.6	122493.6	0.32%					40	5	156.15	TCHSHT
AAA0218_4-25	25	4	18	118706.8	118706.8	0.25%					40	5	142.74	TCHSHT
AAA0318_4-25	25	4	18	122699.9	122699.9	0.32%					48	6	93.58	TCHSHT
AAA0418_4-25	25	4	18	125191.2	125191.2	0.25%					32	4	69.24	TCHSHT
AAA0518_4-25	25	4	18	127065.5	127065.5	0.37%					32	4	73.62	TCHSHT
AAA0618_4-25	25	4	18	111103.5	111103.5	0.08%					40	5	48.31	TCHSHT
AAA0718_4-25	25	4	18	123378.8	123378.8	0.44%					48	6	113.00	TCHSHT
AAA0818_4-25	25	4	18	113205.5	113205.5	0.05%					32	4	80.78	TCHSHT
AAA0918_4-25	25	4	18	124999.2	124999.2	0.07%					32	4	44.36	TCHSHT
AAA006_4-50	50	4	6	81926.6	81926.6	0.29%					15	3	12.58	TCHSHT
AAA016_4-50	50	4	6	85024.5	85024.5	0.20%					20	4	16.52	TCHSHT
AAA026_4-50	50	4	6	87325.9	87325.9	0.20%					15	3	40.01	TCHSHT
AAA036_4-50	50	4	6	88273.2	88273.2	0.25%					15	3	7.28	TCHSHT
AAA046_4-50	50	4	6	94787.4	94787.4	0.33%					20	4	65.30	TCHSHT
AAA056_4-50	50	4	6	89787.2	89787.2	0.24%					15	3	23.23	TCHSHT
AAA066_4-50	50	4	6	80097.4	80097.4	0.26%					20	4	15.03	TCHSHT
AAA076_4-50	50	4	6	83905.6	83905.6	0.24%					20	4	19.61	TCHSHT
AAA086_4-50	50	4	6	84083.5	84083.5	0.26%					15	3	25.15	TCHSHT
AAA096_4-50	50	4	6	94895.2	94895.2	0.21%					15	3	24.02	TCHSHT
AAA0012_4-50	50	4	12	160410.9	160410.9	0.13%					24	4	59.13	TCHSHT
AAA0112_4-50	50	4	12	157705.7	157705.7	0.05%					30	5	40.24	TCHSHT
AAA0212_4-50	50	4	12	159449.2	159449.2	0.17%					24	4	62.23	TCHSHT
AAA0312_4-50	50	4	12	166929.1	166929.1	0.21%					30	5	67.54	TCHSHT
AAA0412_4-50	50	4	12	171475.9	171475.9	0.01%					36	6	88.82	TCHSHT
AAA0512_4-50	50	4	12	165754.8	165754.8	0.30%					30	5	86.50	TCHSHT
AAA0612_4-50	50	4	12	150621.6	150621.6	0.06%					42	7	60.00	TCHSHT
AAA0712_4-50	50	4	12	162705.5	162705.5	0.15%					24	4	57.95	TCHSHT
AAA0812_4-50	50	4	12	158146.9	158146.9	0.44%					24	4	70.01	TCHSHT
AAA0912_4-50	50	4	12	172828.1	172828.1	0.08%					30	5	31.52	TCHSHT
AAA0018_4-50	50	4	18	228888.0	228888.0	0.12%					56	7	167.17	TCHSHT
AAA0118_4-50	50	4	18	232993.1	232993.1	0.09%					40	5	130.22	TCHSHT
AAA0218_4-50	50	4	18	238917.7	238917.7	0.05%					48	6	194.47	TCHSHT
AAA0318_4-50	50	4	18	243677.9	243677.9	0.03%					32	4	92.98	TCHSHT
AAA0418_4-50	50	4	18	254019.5	254019.5	0.09%					40	5	146.93	TCHSHT
AAA0518_4-50	50	4	18	244853.3	244853.3	0.03%					40	5	102.10	TCHSHT
AAA0618_4-50	50	4	18	224323.4	224323.4	0.07%					32	4	55.25	TCHSHT
AAA0718_4-50	50	4	18	241856.7	241856.7	0.21%					40	5	190.24	TCHSHT
AAA0818_4-50	50	4	18	228383.0	228383.0	0.09%					40	5	102.07	TCHSHT
AAA0918_4-50	50	4	18	252250.0	252250.0	0.07%					32	4	90.98	TCHSHT
AAA006_6-6	6	6	6	9919.9	9919.9	3.20%					15	3	1.67	TCHSHT
AAA016_6-6	6	6	6	13297.8	13297.8	1.31%					35	7	7.11	TCHSHT
AAA026_6-6	6	6	6	12268.3	12268.3	0.45%					20	4	1.61	TCHSHT
AAA036_6-6	6	6	6	14313.8	14313.8	2.80%					20	4	3.07	TCHSHT
AAA046_6-6	6	6	6	14236.7	14236.7	1.28%					30	6	2.04	TCHSHT
AAA056_6-6	6	6	6	16729.9	16729.9	2.11%					20	4	2.19	TCHSHT
AAA066_6-6	6	6	6	11644.6	11644.6	0.55%					20	4	2.31	TCHSHT
AAA076_6-6	6	6	6	15368.9	15368.9	0.13%					25	5	2.69	TCHSHT
AAA086_6-6	6	6	6	14924.8	14924.8	2.27%					15	3	1.89	TCHSHT
AAA096_6-6	6	6	6	16021.7	16021.7	0.63%					30	6	4.91	TCHSHT
AAA0012_6-6	6	6	12	20364.8	20364.8	2.48%					30	5	8.97	TCHSHT
AAA0112_6-6	6	6	12	24468.3	24468.3	0.98%					42	7	10.25	TCHSHT
AAA0212_6-6	6	6	12	24185.2	24185.2	0.43%					24	4	8.07	TCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0312_6-6	6	6	12	27231.0	27231.0	0.00%					24	4	9.23	TCHSHT
AAA0412_6-6	6	6	12	26973.9	26973.9	0.35%					24	4	9.46	TCHSHT
AAA0512_6-6	6	6	12	28629.7	28629.7	0.21%					36	6	7.86	TCHSHT
AAA0612_6-6	6	6	12	22965.9	22965.9	0.53%					42	7	8.14	TCHSHT
AAA0712_6-6	6	6	12	29002.0	29002.0	1.00%					30	5	9.68	TCHSHT
AAA0812_6-6	6	6	12	27003.6	27003.6	1.54%					36	6	21.30	TCHSHT
AAA0912_6-6	6	6	12	30767.6	30767.6	2.35%					42	7	23.94	TCHSHT
AAA0018_6-6	6	6	18	29327.4	29327.4	0.40%					48	6	25.61	TCHSHT
AAA0218_6-6	6	6	18	32704.8	32704.8	0.15%					32	4	23.12	TCHSHT
AAA0318_6-6	6	6	18	38567.4	38567.4	0.58%					40	5	38.71	TCHSHT
AAA0418_6-6	6	6	18	39286.9	39286.9	0.42%					40	5	56.23	TCHSHT
AAA0518_6-6	6	6	18	44139.7	44139.7	0.16%					64	8	33.69	TCHSHT
AAA0618_6-6	6	6	18	33662.4	33662.4	0.19%					64	8	32.74	TCHSHT
AAA0718_6-6	6	6	18	42425.7	42425.7	0.66%					40	5	36.55	TCHSHT
AAA0818_6-6	6	6	18	42791.2	42791.2	0.29%					80	10	60.55	TCHSHT
AAA0918_6-6	6	6	18	47247.2	47247.2	2.60%					56	7	99.00	TCHSHT
AAA006_6-12	12	6	6	20746.2	20746.2	0.82%					15	3	4.52	TCHSHT
AAA016_6-12	12	6	6	21012.2	21012.2	0.78%					25	5	18.84	TCHSHT
AAA026_6-12	12	6	6	19961.4	19961.4	2.03%					20	4	19.09	TCHSHT
AAA036_6-12	12	6	6	20757.6	20757.6	1.05%					30	6	8.54	TCHSHT
AAA046_6-12	12	6	6	19289.8	19289.8	2.43%					20	4	7.40	TCHSHT
AAA056_6-12	12	6	6	20843.6	20843.6	3.03%					15	3	5.04	TCHSHT
AAA066_6-12	12	6	6	18359.8	18359.8	0.16%					20	4	2.72	TCHSHT
AAA076_6-12	12	6	6	24467.8	24467.8	2.03%					15	3	20.88	TCHSHT
AAA086_6-12	12	6	6	21423.6	21423.6	2.25%					20	4	13.23	TCHSHT
AAA096_6-12	12	6	6	24185.4	24185.4	0.85%					25	5	8.39	TCHSHT
AAA0012_6-12	12	6	12	38328.4	38328.4	0.79%					30	5	26.34	TCHSHT
AAA0112_6-12	12	6	12	40691.8	40691.8	1.46%					24	4	20.18	TCHSHT
AAA0212_6-12	12	6	12	38464.3	38464.3	0.90%					30	5	59.26	TCHSHT
AAA0312_6-12	12	6	12	41098.3	41098.3	1.30%					30	5	25.83	TCHSHT
AAA0412_6-12	12	6	12	36790.6	36790.6	0.98%					30	5	34.12	TCHSHT
AAA0512_6-12	12	6	12	42575.6	42575.6	0.97%					30	5	37.72	TCHSHT
AAA0612_6-12	12	6	12	35214.2	35214.2	1.16%					30	5	10.43	TCHSHT
AAA0712_6-12	12	6	12	48181.6	48181.6	1.26%					30	5	57.80	TCHSHT
AAA0812_6-12	12	6	12	39701.7	39701.7	0.71%					30	5	29.25	TCHSHT
AAA0912_6-12	12	6	12	44685.5	44685.5	1.19%					30	5	25.39	TCHSHT
AAA0018_6-12	12	6	18	57204.2	57204.2	0.17%					32	4	55.05	TCHSHT
AAA0118_6-12	12	6	18	62315.3	62315.3	0.31%					40	5	56.50	TCHSHT
AAA0218_6-12	12	6	18	55957.7	55957.7	0.16%					48	6	58.44	TCHSHT
AAA0318_6-12	12	6	18	58388.8	58388.8	0.44%					40	5	61.55	TCHSHT
AAA0418_6-12	12	6	18	53134.3	53134.3	0.20%					32	4	38.77	TCHSHT
AAA0518_6-12	12	6	18	63293.9	63293.9	0.34%					40	5	51.08	TCHSHT
AAA0618_6-12	12	6	18	55085.4	55085.4	0.99%					24	3	31.62	TCHSHT
AAA0718_6-12	12	6	18	69334.6	69334.6	0.52%					40	5	103.41	TCHSHT
AAA0818_6-12	12	6	18	58849.4	58849.4	0.41%					48	6	103.13	TCHSHT
AAA0918_6-12	12	6	18	66123.1	66123.1	0.64%					32	4	49.86	TCHSHT
AAA006_6-25	25	6	6	39865.4	39865.4	0.26%					25	5	18.49	TCHSHT
AAA016_6-25	25	6	6	40197.4	40197.4	0.45%					20	4	28.63	TCHSHT
AAA026_6-25	25	6	6	42110.2	42110.2	0.63%					25	5	34.43	TCHSHT
AAA036_6-25	25	6	6	41391.4	41391.4	0.90%					30	6	31.10	TCHSHT
AAA046_6-25	25	6	6	43626.5	43626.5	0.40%					25	5	54.74	TCHSHT
AAA056_6-25	25	6	6	40827.6	40827.6	0.36%					20	4	43.15	TCHSHT
AAA066_6-25	25	6	6	39572.3	39572.3	0.61%					15	3	31.56	TCHSHT
AAA076_6-25	25	6	6	43334.7	43334.7	0.94%					25	5	20.55	TCHSHT
AAA086_6-25	25	6	6	41590.2	41590.2	1.15%					15	3	30.54	TCHSHT
AAA096_6-25	25	6	6	42873.8	42873.8	0.58%					20	4	18.53	TCHSHT
AAA0012_6-25	25	6	12	77897.4	77897.4	0.57%					24	4	62.95	TCHSHT
AAA0112_6-25	25	6	12	80274.2	80274.2	0.30%					30	5	71.13	TCHSHT
AAA0212_6-25	25	6	12	80785.9	80785.9	0.30%					48	8	109.13	TCHSHT
AAA0312_6-25	25	6	12	78506.1	78506.1	0.43%					36	6	87.19	TCHSHT
AAA0412_6-25	25	6	12	81668.8	81668.8	0.35%					30	5	78.35	TCHSHT
AAA0512_6-25	25	6	12	77340.5	77340.5	0.41%					30	5	62.30	TCHSHT
AAA0612_6-25	25	6	12	75213.0	75213.0	0.39%					30	5	79.11	TCHSHT
AAA0712_6-25	25	6	12	78332.3	78332.3	0.14%					30	5	26.63	TCHSHT
AAA0812_6-25	25	6	12	76236.1	76236.1	0.60%					30	5	62.79	TCHSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0912_6-25	25	6	12	83427.8	83427.8	0.60%					24	4	55.51	TCHSHT
AAA0018_6-25	25	6	18	112562.4	112562.4	0.39%					48	6	168.16	TCHSHT
AAA0118_6-25	25	6	18	118365.3	118365.3	0.10%					64	8	179.53	TCHSHT
AAA0218_6-25	25	6	18	121191.2	121191.2	0.09%					40	5	130.55	TCHSHT
AAA0318_6-25	25	6	18	118010.0	118010.0	0.39%					40	5	183.00	TCHSHT
AAA0418_6-25	25	6	18	121441.0	121441.0	0.06%					40	5	153.62	TCHSHT
AAA0518_6-25	25	6	18	118500.9	118500.9	0.20%					32	4	92.30	TCHSHT
AAA0618_6-25	25	6	18	109743.7	109743.7	0.09%					48	6	116.82	TCHSHT
AAA0718_6-25	25	6	18	115683.4	115683.4	0.24%					40	5	65.75	TCHSHT
AAA0818_6-25	25	6	18	109848.5	109848.5	0.07%					40	5	112.56	TCHSHT
AAA0918_6-25	25	6	18	123569.6	123569.6	0.28%					40	5	151.44	TCHSHT
AAA006_6-50	50	6	6	75047.5	75047.5	0.25%					20	4	46.94	TCHSHT
AAA016_6-50	50	6	6	77526.5	77526.5	0.24%					15	3	42.89	TCHSHT
AAA026_6-50	50	6	6	80520.0	80520.0	0.31%					20	4	65.34	TCHSHT
AAA036_6-50	50	6	6	78631.0	78631.0	0.32%					15	3	27.14	TCHSHT
AAA046_6-50	50	6	6	80981.4	80981.4	-0.01%					20	4	62.30	TCHSHT
AAA056_6-50	50	6	6	81781.8	81781.8	0.21%					15	3	57.44	TCHSHT
AAA066_6-50	50	6	6	78360.5	78360.5	0.30%					15	3	41.18	TCHSHT
AAA076_6-50	50	6	6	81866.3	81866.3	0.13%					15	3	16.52	TCHSHT
AAA086_6-50	50	6	6	76860.5	76860.5	0.11%					25	5	22.75	TCHSHT
AAA096_6-50	50	6	6	78047.5	78047.5	0.20%					15	3	34.92	TCHSHT
AAA0012_6-50	50	6	12	145998.4	145998.4	0.21%					30	5	70.14	TCHSHT
AAA0112_6-50	50	6	12	148748.9	148748.9	-0.03%					36	6	89.53	TCHSHT
AAA0212_6-50	50	6	12	153467.3	153467.3	0.15%					24	4	83.62	TCHSHT
AAA0312_6-50	50	6	12	151976.3	151976.3	0.15%					24	4	73.58	TCHSHT
AAA0412_6-50	50	6	12	158882.5	158882.5	0.13%					24	4	85.60	TCHSHT
AAA0512_6-50	50	6	12	156524.8	156524.8	0.21%					24	4	73.08	TCHSHT
AAA0612_6-50	50	6	12	147808.2	147808.2	0.31%					24	4	111.59	TCHSHT
AAA0712_6-50	50	6	12	156888.7	156888.7	0.14%					24	4	73.27	TCHSHT
AAA0812_6-50	50	6	12	143665.9	143665.9	0.19%					36	6	94.63	TCHSHT
AAA0912_6-50	50	6	12	151289.9	151289.9	0.27%					36	6	96.95	TCHSHT
AAA0018_6-50	50	6	18	215956.6	215956.6	0.06%					64	8	210.04	TCHSHT
AAA0118_6-50	50	6	18	218307.9	218307.9	0.21%					32	4	118.31	TCHSHT
AAA0218_6-50	50	6	18	223798.5	223798.5	0.06%					40	5	202.51	TCHSHT
AAA0318_6-50	50	6	18	225726.9	225726.9	0.10%					40	5	164.31	TCHSHT
AAA0418_6-50	50	6	18	236161.3	236161.3	0.02%					32	4	177.35	TCHSHT
AAA0518_6-50	50	6	18	225527.3	225527.3	0.03%					40	5	164.33	TCHSHT
AAA0618_6-50	50	6	18	219220.3	219220.3	0.04%					40	5	294.46	TCHSHT
AAA0718_6-50	50	6	18	230326.1	230326.1	0.15%					40	5	158.36	TCHSHT
AAA0818_6-50	50	6	18	214666.7	214666.7	0.14%					32	4	99.44	TCHSHT
AAA0918_6-50	50	6	18	224213.2	224213.2	0.19%					32	4	138.45	TCHSHT
AAB006_2-6	6	2	6	14854.6	14854.6	1.85%					15	3	0.69	TCHSLT
AAB016_2-6	6	2	6	12161.7	12161.7	2.25%					15	3	0.83	TCHSLT
AAB026_2-6	6	2	6	16684.8	16684.8	7.25%					15	3	0.63	TCHSLT
AAB046_2-6	6	2	6	19155.2	19155.2	1.18%					15	3	0.83	TCHSLT
AAB056_2-6	6	2	6	17310.9	17310.9	0.00%					20	4	0.78	TCHSLT
AAB066_2-6	6	2	6	17565.7	17565.7	0.00%					15	3	0.60	TCHSLT
AAB076_2-6	6	2	6	18651.3	18651.3	3.59%					10	2	0.68	TCHSLT
AAB086_2-6	6	2	6	13673.4	13673.4	1.14%					10	2	0.47	TCHSLT
AAB096_2-6	6	2	6	14204.5	14204.5	0.09%					20	4	0.61	TCHSLT
AAB0012_2-6	6	2	12	25783.3	25783.3	0.79%					48	8	3.20	TCHSLT
AAB0112_2-6	6	2	12	25232.4	25232.4	1.41%					42	7	3.75	TCHSLT
AAB0212_2-6	6	2	12	28905.1	28905.1	2.29%					30	5	2.33	TCHSLT
AAB0412_2-6	6	2	12	33153.9	33153.9	1.90%					66	11	6.01	TCHSLT
AAB0512_2-6	6	2	12	34803.2	34803.2	4.58%					36	6	3.75	TCHSLT
AAB0612_2-6	6	2	12	31528.2	31528.2	3.03%					24	4	2.70	TCHSLT
AAB0712_2-6	6	2	12	28831.5	28831.5	3.03%					36	6	2.93	TCHSLT
AAB0812_2-6	6	2	12	22906.1	22906.1	0.31%					24	4	1.66	TCHSLT
AAB0912_2-6	6	2	12	29434.8	29434.8	1.42%					54	9	4.62	TCHSLT
AAB0018_2-6	6	2	18	34805.1	34805.1	0.41%					32	4	8.92	TCHSLT
AAB0118_2-6	6	2	18	35622.8	35622.8	0.38%					56	7	12.03	TCHSLT
AAB0218_2-6	6	2	18	40825.4	40825.4	0.22%					48	6	6.49	TCHSLT
AAB0418_2-6	6	2	18	40880.5	40880.5	4.35%					64	8	17.46	TCHSLT
AAB0518_2-6	6	2	18	44438.5	44438.5	1.11%					64	8	10.47	TCHSLT
AAB0618_2-6	6	2	18	41922.3	41922.3	1.72%					56	7	8.89	TCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_2-6	6	2	18	40740.1	40740.1	0.40%					72	9	11.89	TCHSLT
AAB0818_2-6	6	2	18	33232.8	33232.8	1.60%					40	5	6.62	TCHSLT
AAB0918_2-6	6	2	18	37376.7	37376.7	0.07%					56	7	7.29	TCHSLT
AAB006_2-12	12	2	6	23437.0	23437.0	1.47%					10	2	1.07	TCHSLT
AAB016_2-12	12	2	6	27010.1	27010.1	0.63%					15	3	1.26	TCHSLT
AAB026_2-12	12	2	6	28469.7	28469.7	1.14%					15	3	1.36	TCHSLT
AAB036_2-12	12	2	6	30704.9	30704.9	0.97%					15	3	1.04	TCHSLT
AAB046_2-12	12	2	6	27975.9	27975.9	4.88%					15	3	1.19	TCHSLT
AAB056_2-12	12	2	6	30755.7	30755.7	0.89%					15	3	1.10	TCHSLT
AAB066_2-12	12	2	6	27346.4	27346.4	0.01%					15	3	1.13	TCHSLT
AAB076_2-12	12	2	6	29074.3	29074.3	6.41%					15	3	1.26	TCHSLT
AAB086_2-12	12	2	6	26018.1	26018.1	1.25%					15	3	1.22	TCHSLT
AAB096_2-12	12	2	6	29223.1	29223.1	1.32%					25	5	1.87	TCHSLT
AAB0012_2-12	12	2	12	43808.0	43808.0	0.69%					30	5	5.26	TCHSLT
AAB0112_2-12	12	2	12	43434.9	43434.9	1.49%					18	3	4.37	TCHSLT
AAB0212_2-12	12	2	12	46526.9	46526.9	1.85%					42	7	8.73	TCHSLT
AAB0312_2-12	12	2	12	56260.9	56260.9	2.73%					24	4	8.07	TCHSLT
AAB0412_2-12	12	2	12	46144.7	46144.7	0.32%					30	5	4.16	TCHSLT
AAB0512_2-12	12	2	12	55176.6	55176.6	1.38%					30	5	7.81	TCHSLT
AAB0612_2-12	12	2	12	48362.8	48362.8	1.42%					18	3	3.45	TCHSLT
AAB0712_2-12	12	2	12	49160054337.0	49160054337.0	100.00%					24	4	6.22	TCHSLT
AAB0812_2-12	12	2	12	43539.9	43539.9	2.04%					30	5	7.11	TCHSLT
AAB0912_2-12	12	2	12	54018.3	54018.3	0.53%					36	6	9.32	TCHSLT
AAB0118_2-12	12	2	18	66025.2	66025.2	2.43%					40	5	23.20	TCHSLT
AAB0218_2-12	12	2	18	68117.3	68117.3	0.33%					56	7	46.71	TCHSLT
AAB0318_2-12	12	2	18	77918.3	77918.3	0.09%					48	6	34.26	TCHSLT
AAB0418_2-12	12	2	18	69639.7	69639.7	0.64%					48	6	33.61	TCHSLT
AAB0518_2-12	12	2	18	76822.8	76822.8	0.56%					40	5	22.01	TCHSLT
AAB0618_2-12	12	2	18	69151.7	69151.7	0.56%					48	6	18.93	TCHSLT
AAB0718_2-12	12	2	18	69455.5	69455.5	0.06%					40	5	8.24	TCHSLT
AAB0818_2-12	12	2	18	68710.4	68710.4	2.37%					56	7	37.78	TCHSLT
AAB0918_2-12	12	2	18	77292.5	77292.5	1.71%					48	6	43.10	TCHSLT
AAB006_2-25	25	2	6	50829.5	50829.5	0.72%					15	3	2.80	TCHSLT
AAB016_2-25	25	2	6	50950.4	50950.4	0.27%					10	2	1.38	TCHSLT
AAB026_2-25	25	2	6	56288.6	56288.6	0.88%					15	3	2.97	TCHSLT
AAB036_2-25	25	2	6	56651.0	56651.0	1.07%					10	2	2.09	TCHSLT
AAB046_2-25	25	2	6	58505.0	58505.0	0.32%					10	2	1.98	TCHSLT
AAB056_2-25	25	2	6	60499.1	60499.1	0.52%					25	5	4.42	TCHSLT
AAB066_2-25	25	2	6	48465.9	48465.9	0.57%					20	4	3.08	TCHSLT
AAB076_2-25	25	2	6	54759.1	54759.1	0.46%					15	3	2.37	TCHSLT
AAB086_2-25	25	2	6	58942.0	58942.0	0.97%					20	4	5.29	TCHSLT
AAB096_2-25	25	2	6	65822.5	65822.5	1.61%					30	6	8.85	TCHSLT
AAB0012_2-25	25	2	12	93211.0	93211.0	1.17%					24	4	13.74	TCHSLT
AAB0112_2-25	25	2	12	97703.2	97703.2	0.62%					24	4	11.60	TCHSLT
AAB0212_2-25	25	2	12	96285.6	96285.6	1.23%					42	7	33.15	TCHSLT
AAB0312_2-25	25	2	12	100127.3	100127.3	1.52%					42	7	31.93	TCHSLT
AAB0412_2-25	25	2	12	99412.2	99412.2	1.01%					24	4	25.55	TCHSLT
AAB0512_2-25	25	2	12	111341.9	111341.9	0.37%					30	5	32.85	TCHSLT
AAB0612_2-25	25	2	12	94328.5	94328.5	0.71%					42	7	35.14	TCHSLT
AAB0712_2-25	25	2	12	99014.3	99014.3	0.94%					30	5	27.13	TCHSLT
AAB0812_2-25	25	2	12	103164.5	103164.5	0.41%					30	5	25.25	TCHSLT
AAB0912_2-25	25	2	12	109257.0	109257.0	0.82%					24	4	53.38	TCHSLT
AAB0018_2-25	25	2	18	132323.8	132323.8	0.01%					32	4	62.13	TCHSLT
AAB0118_2-25	25	2	18	136097.0	136097.0	0.30%					32	4	47.63	TCHSLT
AAB0218_2-25	25	2	18	134735.2	134735.2	0.29%					40	5	102.53	TCHSLT
AAB0318_2-25	25	2	18	147341.8	147341.8	0.12%					64	8	91.05	TCHSLT
AAB0418_2-25	25	2	18	141131.6	141131.6	0.01%					40	5	54.43	TCHSLT
AAB0518_2-25	25	2	18	154545.0	154545.0	0.09%					40	5	103.79	TCHSLT
AAB0618_2-25	25	2	18	130969.7	130969.7	0.23%					40	5	51.10	TCHSLT
AAB0718_2-25	25	2	18	146331.9	146331.9	0.31%					40	5	131.55	TCHSLT
AAB0818_2-25	25	2	18	143449.0	143449.0	0.22%					48	6	95.03	TCHSLT
AAB0918_2-25	25	2	18	155993.5	155993.5	0.16%					56	7	134.60	TCHSLT
AAB006_2-50	50	2	6	99451.1	99451.1	0.23%					25	5	8.81	TCHSLT
AAB016_2-50	50	2	6	102260.9	102260.9	0.20%					10	2	3.33	TCHSLT
AAB026_2-50	50	2	6	101616.8	101616.8	0.12%					15	3	4.40	TCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB036_2-50	50	2	6	109040.9	109040.9	0.36%					10	2	4.88	TCHSLT
AAB046_2-50	50	2	6	116352.0	116352.0	0.13%					10	2	9.90	TCHSLT
AAB056_2-50	50	2	6	114651.9	114651.9	0.55%					15	3	14.51	TCHSLT
AAB066_2-50	50	2	6	102289.0	102289.0	0.33%					20	4	7.02	TCHSLT
AAB076_2-50	50	2	6	110751.8	110751.8	0.56%					20	4	10.15	TCHSLT
AAB086_2-50	50	2	6	104843.5	104843.5	0.13%					15	3	4.43	TCHSLT
AAB096_2-50	50	2	6	111289.6	111289.6	0.20%					15	3	6.58	TCHSLT
AAB0012_2-50	50	2	12	183491.7	183491.7	0.46%					18	3	42.38	TCHSLT
AAB0112_2-50	50	2	12	189110.7	189110.7	0.22%					30	5	36.51	TCHSLT
AAB0212_2-50	50	2	12	185752.6	185752.6	0.43%					30	5	71.16	TCHSLT
AAB0312_2-50	50	2	12	195268.3	195268.3	0.25%					30	5	32.46	TCHSLT
AAB0412_2-50	50	2	12	206398.5	206398.5	0.11%					24	4	60.61	TCHSLT
AAB0512_2-50	50	2	12	203000.3	203000.3	0.44%					24	4	46.04	TCHSLT
AAB0612_2-50	50	2	12	180031.6	180031.6	0.22%					30	5	27.03	TCHSLT
AAB0712_2-50	50	2	12	196752.3	196752.3	0.10%					24	4	46.17	TCHSLT
AAB0812_2-50	50	2	12	186284.9	186284.9	0.26%					42	7	58.26	TCHSLT
AAB0912_2-50	50	2	12	200147.5	200147.5	0.29%					24	4	63.06	TCHSLT
AAB0018_2-50	50	2	18	264703.6	264703.6	0.22%					32	4	79.63	TCHSLT
AAB0118_2-50	50	2	18	272539.5	272539.5	0.02%					40	5	108.84	TCHSLT
AAB0218_2-50	50	2	18	264875.2	264875.2	0.03%					32	4	81.21	TCHSLT
AAB0318_2-50	50	2	18	285669.0	285669.0	0.13%					40	5	103.20	TCHSLT
AAB0418_2-50	50	2	18	301210.9	301210.9	0.31%					32	4	203.40	TCHSLT
AAB0518_2-50	50	2	18	292339.0	292339.0	0.11%					56	7	183.05	TCHSLT
AAB0618_2-50	50	2	18	262417.1	262417.1	0.08%					48	6	121.94	TCHSLT
AAB0718_2-50	50	2	18	279411.1	279411.1	0.00%					64	8	247.95	TCHSLT
AAB0818_2-50	50	2	18	268475.9	268475.9	0.18%					32	4	92.36	TCHSLT
AAB0918_2-50	50	2	18	290365.7	290365.7	0.13%					48	6	204.32	TCHSLT
AAB006_4-6	6	4	6	10054.8	10054.8	1.14%					20	4	0.90	TCHSLT
AAB016_4-6	6	4	6	14117.1	14117.1	3.45%					45	9	5.20	TCHSLT
AAB026_4-6	6	4	6	12910.9	12910.9	0.08%					20	4	1.53	TCHSLT
AAB036_4-6	6	4	6	14192.1	14192.1	2.41%					25	5	1.72	TCHSLT
AAB046_4-6	6	4	6	11685.6	11685.6	1.85%					15	3	3.02	TCHSLT
AAB056_4-6	6	4	6	16374.3	16374.3	0.00%					20	4	1.46	TCHSLT
AAB066_4-6	6	4	6	13232.9	13232.9	3.29%					15	3	1.33	TCHSLT
AAB076_4-6	6	4	6	14628.8	14628.8	0.00%					25	5	1.38	TCHSLT
AAB086_4-6	6	4	6	11424.1	11424.1	7.39%					15	3	0.89	TCHSLT
AAB096_4-6	6	4	6	15320.5	15320.5	1.09%					20	4	1.09	TCHSLT
AAB0012_4-6	6	4	12	18563.4	18563.4	0.69%					30	5	6.03	TCHSLT
AAB0112_4-6	6	4	12	26904.2	26904.2	0.33%					42	7	15.05	TCHSLT
AAB0212_4-6	6	4	12	25964.8	25964.8	4.90%					36	6	12.16	TCHSLT
AAB0312_4-6	6	4	12	28050.9	28050.9	2.33%					30	5	4.83	TCHSLT
AAB0412_4-6	6	4	12	26560.9	26560.9	2.67%					36	6	15.44	TCHSLT
AAB0512_4-6	6	4	12	31794.6	31794.6	0.00%					30	5	5.91	TCHSLT
AAB0612_4-6	6	4	12	23327.5	23327.5	2.51%					24	4	3.86	TCHSLT
AAB0712_4-6	6	4	12	25966.7	25966.7	1.69%					30	5	5.14	TCHSLT
AAB0812_4-6	6	4	12	23492.9	23492.9	1.28%					36	6	6.68	TCHSLT
AAB0912_4-6	6	4	12	28271.4	28271.4	3.26%					30	5	5.10	TCHSLT
AAB0018_4-6	6	4	18	28425.8	28425.8	0.16%					48	6	17.22	TCHSLT
AAB0118_4-6	6	4	18	35957.8	35957.8	0.14%					48	6	37.21	TCHSLT
AAB0218_4-6	6	4	18	35846.4	35846.4	0.83%					56	7	36.78	TCHSLT
AAB0318_4-6	6	4	18	41532.3	41532.3	0.36%					56	7	34.13	TCHSLT
AAB0418_4-6	6	4	18	37594.6	37594.6	0.95%					48	6	49.89	TCHSLT
AAB0518_4-6	6	4	18	44932.6	44932.6	0.08%					40	5	19.29	TCHSLT
AAB0618_4-6	6	4	18	36396.6	36396.6	0.51%					32	4	22.28	TCHSLT
AAB0718_4-6	6	4	18	39045.5	39045.5	0.54%					48	6	19.01	TCHSLT
AAB0818_4-6	6	4	18	29481.6	29481.6	1.18%					40	5	22.45	TCHSLT
AAB0918_4-6	6	4	18	39533.7	39533.7	0.31%					40	5	21.24	TCHSLT
AAB006_4-12	12	4	6	21186.6	21186.6	0.33%					20	4	2.56	TCHSLT
AAB016_4-12	12	4	6	25675.6	25675.6	2.95%					15	3	7.27	TCHSLT
AAB026_4-12	12	4	6	19327.8	19327.8	0.12%					15	3	1.64	TCHSLT
AAB036_4-12	12	4	6	22614.6	22614.6	3.92%					25	5	9.23	TCHSLT
AAB046_4-12	12	4	6	24323.1	24323.1	1.40%					20	4	4.30	TCHSLT
AAB056_4-12	12	4	6	25752.1	25752.1	1.29%					20	4	2.75	TCHSLT
AAB066_4-12	12	4	6	22809.4	22809.4	3.05%					25	5	3.43	TCHSLT
AAB076_4-12	12	4	6	23886.4	23886.4	5.19%					20	4	21.63	TCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB086_4-12	12	4	6	23513.0	23513.0	0.70%					20	4	3.27	TCHSLT
AAB096_4-12	12	4	6	23843.4	23843.4	1.46%					40	8	23.32	TCHSLT
AAB0012_4-12	12	4	12	37580.6	37580.6	0.40%					30	5	28.28	TCHSLT
AAB0112_4-12	12	4	12	44606.8	44606.8	1.37%					30	5	55.43	TCHSLT
AAB0212_4-12	12	4	12	38143.0	38143.0	0.20%					18	3	14.03	TCHSLT
AAB0312_4-12	12	4	12	42664.3	42664.3	0.31%					36	6	16.17	TCHSLT
AAB0412_4-12	12	4	12	43925.1	43925.1	0.33%					36	6	20.13	TCHSLT
AAB0512_4-12	12	4	12	48393.8	48393.8	0.94%					36	6	30.02	TCHSLT
AAB0612_4-12	12	4	12	41675.8	41675.8	0.87%					42	7	19.24	TCHSLT
AAB0712_4-12	12	4	12	46162.6	46162.6	0.44%					48	8	61.00	TCHSLT
AAB0812_4-12	12	4	12	42862.1	42862.1	0.19%					24	4	7.59	TCHSLT
AAB0912_4-12	12	4	12	46960.2	46960.2	0.53%					30	5	38.55	TCHSLT
AAB0018_4-12	12	4	18	55897.1	55897.1	0.15%					40	5	54.56	TCHSLT
AAB0118_4-12	12	4	18	63112.6	63112.6	0.11%					56	7	110.41	TCHSLT
AAB0218_4-12	12	4	18	54781.2	54781.2	0.14%					32	4	26.40	TCHSLT
AAB0318_4-12	12	4	18	65163.1	65163.1	0.38%					56	7	105.22	TCHSLT
AAB0418_4-12	12	4	18	65698.1	65698.1	0.46%					40	5	75.53	TCHSLT
AAB0518_4-12	12	4	18	69511.4	69511.4	0.48%					48	6	64.95	TCHSLT
AAB0618_4-12	12	4	18	61487.0	61487.0	0.23%					32	4	39.86	TCHSLT
AAB0718_4-12	12	4	18	71347.8	71347.8	2.23%					48	6	129.39	TCHSLT
AAB0818_4-12	12	4	18	64747.9	64747.9	0.16%					48	6	46.95	TCHSLT
AAB0918_4-12	12	4	18	66243.2	66243.2	0.94%					48	6	86.28	TCHSLT
AAB006_4-25	25	4	6	39052.7	39052.7	0.27%					25	5	23.71	TCHSLT
AAB016_4-25	25	4	6	48059.4	48059.4	0.77%					20	4	22.73	TCHSLT
AAB026_4-25	25	4	6	45842.1	45842.1	0.73%					20	4	25.66	TCHSLT
AAB036_4-25	25	4	6	45695.4	45695.4	1.18%					20	4	14.86	TCHSLT
AAB046_4-25	25	4	6	46147.6	46147.6	0.69%					15	3	19.12	TCHSLT
AAB056_4-25	25	4	6	50169.2	50169.2	0.48%					20	4	27.27	TCHSLT
AAB066_4-25	25	4	6	39565.7	39565.7	0.55%					15	3	8.03	TCHSLT
AAB076_4-25	25	4	6	45670.8	45670.8	0.49%					25	5	22.22	TCHSLT
AAB086_4-25	25	4	6	41841.1	41841.1	0.32%					30	6	20.12	TCHSLT
AAB096_4-25	25	4	6	47515.8	47515.8	0.33%					15	3	5.05	TCHSLT
AAB0012_4-25	25	4	12	77198.4	77198.4	0.10%					42	7	86.11	TCHSLT
AAB0112_4-25	25	4	12	86780.5	86780.5	0.63%					30	5	106.68	TCHSLT
AAB0212_4-25	25	4	12	83177.3	83177.3	0.69%					30	5	100.37	TCHSLT
AAB0312_4-25	25	4	12	86329.9	86329.9	1.36%					24	4	62.98	TCHSLT
AAB0412_4-25	25	4	12	87157.4	87157.4	0.86%					30	5	82.97	TCHSLT
AAB0512_4-25	25	4	12	90355.9	90355.9	0.46%					24	4	52.36	TCHSLT
AAB0612_4-25	25	4	12	76008.4	76008.4	0.32%					24	4	35.47	TCHSLT
AAB0712_4-25	25	4	12	86137.1	86137.1	0.36%					36	6	73.16	TCHSLT
AAB0812_4-25	25	4	12	81231.1	81231.1	0.56%					24	4	65.83	TCHSLT
AAB0912_4-25	25	4	12	86828.2	86828.2	0.83%					24	4	52.19	TCHSLT
AAB0018_4-25	25	4	18	111431.2	111431.2	0.07%					48	6	147.67	TCHSLT
AAB0118_4-25	25	4	18	125199.1	125199.1	0.13%					32	4	130.69	TCHSLT
AAB0218_4-25	25	4	18	121980.1	121980.1	0.56%					48	6	290.84	TCHSLT
AAB0318_4-25	25	4	18	125049.6	125049.6	0.29%					56	7	190.77	TCHSLT
AAB0418_4-25	25	4	18	127365.3	127365.3	0.32%					40	5	129.48	TCHSLT
AAB0518_4-25	25	4	18	129788.7	129788.7	0.37%					40	5	127.13	TCHSLT
AAB0618_4-25	25	4	18	112324.4	112324.4	0.04%					32	4	66.82	TCHSLT
AAB0718_4-25	25	4	18	125204.1	125204.1	0.22%					40	5	157.68	TCHSLT
AAB0818_4-25	25	4	18	114965.3	114965.3	0.08%					32	4	122.29	TCHSLT
AAB0918_4-25	25	4	18	126924.3	126924.3	0.08%					40	5	113.52	TCHSLT
AAB006_4-50	50	4	6	84099.1	84099.1	0.50%					20	4	27.08	TCHSLT
AAB016_4-50	50	4	6	87421.0	87421.0	-0.02%					20	4	34.14	TCHSLT
AAB026_4-50	50	4	6	89310.1	89310.1	0.07%					15	3	23.98	TCHSLT
AAB036_4-50	50	4	6	90467.5	90467.5	0.49%					20	4	27.25	TCHSLT
AAB046_4-50	50	4	6	98196.2	98196.2	0.48%					15	3	32.39	TCHSLT
AAB056_4-50	50	4	6	92676.1	92676.1	0.45%					15	3	19.94	TCHSLT
AAB066_4-50	50	4	6	81576.3	81576.3	0.26%					25	5	20.20	TCHSLT
AAB076_4-50	50	4	6	85946.0	85946.0	0.19%					25	5	36.78	TCHSLT
AAB086_4-50	50	4	6	86204.9	86204.9	0.31%					15	3	27.96	TCHSLT
AAB096_4-50	50	4	6	96769.3	96769.3	0.34%					15	3	38.37	TCHSLT
AAB0012_4-50	50	4	12	163448.7	163448.7	0.28%					24	4	104.00	TCHSLT
AAB0112_4-50	50	4	12	159876.6	159876.6	0.10%					36	6	119.69	TCHSLT
AAB0212_4-50	50	4	12	162009.7	162009.7	0.22%					24	4	121.05	TCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0312_4-50	50	4	12	169582.4	169582.4	0.20%					42	7	173.54	TCHSLT
AAB0412_4-50	50	4	12	176104.6	176104.6	0.43%					30	5	129.61	TCHSLT
AAB0512_4-50	50	4	12	169185.4	169185.4	0.29%					30	5	129.28	TCHSLT
AAB0612_4-50	50	4	12	152270.3	152270.3	0.17%					24	4	61.38	TCHSLT
AAB0712_4-50	50	4	12	165880.3	165880.3	0.14%					30	5	120.18	TCHSLT
AAB0812_4-50	50	4	12	160904.2	160904.2	0.48%					30	5	118.92	TCHSLT
AAB0912_4-50	50	4	12	174594.1	174594.1	0.10%					18	3	53.04	TCHSLT
AAB0018_4-50	50	4	18	232102.5	232102.5	0.18%					40	5	177.03	TCHSLT
AAB0118_4-50	50	4	18	235176.2	235176.2	-0.01%					48	6	221.20	TCHSLT
AAB0218_4-50	50	4	18	242971.9	242971.9	0.02%					40	5	262.12	TCHSLT
AAB0318_4-50	50	4	18	246982.5	246982.5	0.02%					40	5	208.84	TCHSLT
AAB0418_4-50	50	4	18	257772.0	257772.0	0.11%					56	7	290.44	TCHSLT
AAB0518_4-50	50	4	18	248238.8	248238.8	-0.10%					40	5	180.67	TCHSLT
AAB0618_4-50	50	4	18	225936.2	225936.2	0.04%					56	7	146.91	TCHSLT
AAB0718_4-50	50	4	18	246290.3	246290.3	0.17%					56	7	328.40	TCHSLT
AAB0818_4-50	50	4	18	231569.8	231569.8	0.39%					48	6	220.76	TCHSLT
AAB0918_4-50	50	4	18	254342.9	254342.9	0.08%					32	4	136.89	TCHSLT
AAB006_6-6	6	6	6	10456.7	10456.7	1.59%					20	4	2.86	TCHSLT
AAB026_6-6	6	6	6	13723.5	13723.5	2.24%					25	5	2.54	TCHSLT
AAB036_6-6	6	6	6	15103.7	15103.7	1.54%					30	6	3.15	TCHSLT
AAB046_6-6	6	6	6	15161.3	15161.3	2.65%					25	5	2.46	TCHSLT
AAB056_6-6	6	6	6	18511.4	18511.4	2.32%					20	4	2.62	TCHSLT
AAB066_6-6	6	6	6	12642.8	12642.8	2.11%					25	5	4.18	TCHSLT
AAB076_6-6	6	6	6	16788.3	16788.3	0.99%					30	6	2.85	TCHSLT
AAB086_6-6	6	6	6	16616.2	16616.2	1.79%					20	4	3.04	TCHSLT
AAB096_6-6	6	6	6	18170.3	18170.3	1.27%					35	7	8.61	TCHSLT
AAB0012_6-6	6	6	12	21483.4	21483.4	1.21%					30	5	11.54	TCHSLT
AAB0212_6-6	6	6	12	26129.8	26129.8	0.10%					30	5	11.45	TCHSLT
AAB0312_6-6	6	6	12	29253.2	29253.2	0.81%					30	5	11.94	TCHSLT
AAB0412_6-6	6	6	12	29519.0	29519.0	1.11%					30	5	10.59	TCHSLT
AAB0512_6-6	6	6	12	32099.6	32099.6	1.61%					36	6	18.70	TCHSLT
AAB0612_6-6	6	6	12	25722.0	25722.0	0.55%					54	9	23.22	TCHSLT
AAB0712_6-6	6	6	12	30797.0	30797.0	0.52%					42	7	19.22	TCHSLT
AAB0812_6-6	6	6	12	30311.4	30311.4	1.14%					42	7	19.45	TCHSLT
AAB0912_6-6	6	6	12	34586.9	34586.9	1.88%					60	10	28.18	TCHSLT
AAB0018_6-6	6	6	18	31328.3	31328.3	0.40%					56	7	53.80	TCHSLT
AAB0218_6-6	6	6	18	35129.2	35129.2	0.00%					56	7	41.16	TCHSLT
AAB0318_6-6	6	6	18	41208.6	41208.6	0.35%					64	8	40.95	TCHSLT
AAB0418_6-6	6	6	18	43426.3	43426.3	1.08%					48	6	85.82	TCHSLT
AAB0518_6-6	6	6	18	48605.2	48605.2	0.61%					48	6	56.82	TCHSLT
AAB0618_6-6	6	6	18	36480.7	36480.7	1.35%					80	10	42.20	TCHSLT
AAB0718_6-6	6	6	18	45452.9	45452.9	0.30%					40	5	37.13	TCHSLT
AAB0818_6-6	6	6	18	47475.0	47475.0	0.26%					88	11	95.37	TCHSLT
AAB0918_6-6	6	6	18	51626.4	51626.4	0.84%					64	8	96.25	TCHSLT
AAB006_6-12	12	6	6	21619.8	21619.8	1.80%					25	5	9.15	TCHSLT
AAB016_6-12	12	6	6	22360.7	22360.7	1.21%					25	5	12.46	TCHSLT
AAB026_6-12	12	6	6	21132.2	21132.2	0.34%					25	5	15.48	TCHSLT
AAB036_6-12	12	6	6	21961.5	21961.5	1.46%					20	4	5.16	TCHSLT
AAB046_6-12	12	6	6	20172.4	20172.4	2.45%					20	4	14.66	TCHSLT
AAB056_6-12	12	6	6	21916.6	21916.6	2.68%					10	2	4.16	TCHSLT
AAB066_6-12	12	6	6	19216.1	19216.1	1.85%					15	3	3.04	TCHSLT
AAB076_6-12	12	6	6	25945.2	25945.2	2.62%					15	3	7.95	TCHSLT
AAB086_6-12	12	6	6	22616.8	22616.8	2.40%					25	5	17.39	TCHSLT
AAB096_6-12	12	6	6	25436.0	25436.0	0.48%					25	5	12.77	TCHSLT
AAB0012_6-12	12	6	12	39821.8	39821.8	1.45%					30	5	30.37	TCHSLT
AAB0112_6-12	12	6	12	42359.1	42359.1	1.52%					30	5	30.66	TCHSLT
AAB0212_6-12	12	6	12	40757.2	40757.2	0.81%					42	7	64.63	TCHSLT
AAB0312_6-12	12	6	12	43505.4	43505.4	0.96%					30	5	35.50	TCHSLT
AAB0412_6-12	12	6	12	38265.4	38265.4	0.56%					30	5	47.69	TCHSLT
AAB0512_6-12	12	6	12	44678.0	44678.0	1.34%					30	5	31.75	TCHSLT
AAB0612_6-12	12	6	12	36480.8	36480.8	1.22%					36	6	22.94	TCHSLT
AAB0712_6-12	12	6	12	51299.8	51299.8	0.56%					36	6	70.01	TCHSLT
AAB0812_6-12	12	6	12	42701.5	42701.5	0.90%					48	8	67.27	TCHSLT
AAB0912_6-12	12	6	12	46590.0	46590.0	1.57%					30	5	37.15	TCHSLT
AAB0018_6-12	12	6	18	59353.6	59353.6	0.23%					48	6	90.24	TCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0118_6-12	12	6	18	64657.1	64657.1	0.66%					48	6	140.47	TCHSLT
AAB0218_6-12	12	6	18	59166.6	59166.6	0.01%					56	7	128.41	TCHSLT
AAB0318_6-12	12	6	18	60933.3	60933.3	0.38%					48	6	111.22	TCHSLT
AAB0418_6-12	12	6	18	54825.6	54825.6	0.46%					48	6	90.22	TCHSLT
AAB0518_6-12	12	6	18	66892.1	66892.1	0.65%					40	5	77.58	TCHSLT
AAB0618_6-12	12	6	18	56901.0	56901.0	0.53%					40	5	45.78	TCHSLT
AAB0718_6-12	12	6	18	73493.5	73493.5	0.25%					56	7	175.73	TCHSLT
AAB0818_6-12	12	6	18	62385.1	62385.1	0.76%					40	5	105.47	TCHSLT
AAB0918_6-12	12	6	18	68123.4	68123.4	0.50%					32	4	64.71	TCHSLT
AAB006_6-25	25	6	6	42329.1	42329.1	1.07%					15	3	36.73	TCHSLT
AAB016_6-25	25	6	6	41623.1	41623.1	0.61%					15	3	27.90	TCHSLT
AAB026_6-25	25	6	6	44012.5	44012.5	1.12%					35	7	82.71	TCHSLT
AAB036_6-25	25	6	6	43196.7	43196.7	1.60%					25	5	35.94	TCHSLT
AAB046_6-25	25	6	6	45806.3	45806.3	0.96%					30	6	80.62	TCHSLT
AAB056_6-25	25	6	6	42512.1	42512.1	1.34%					20	4	44.17	TCHSLT
AAB066_6-25	25	6	6	41214.8	41214.8	0.96%					20	4	50.48	TCHSLT
AAB076_6-25	25	6	6	44818.6	44818.6	1.37%					30	6	44.62	TCHSLT
AAB086_6-25	25	6	6	44107.6	44107.6	1.77%					20	4	47.77	TCHSLT
AAB096_6-25	25	6	6	44666.1	44666.1	1.55%					15	3	37.29	TCHSLT
AAB0012_6-25	25	6	12	80021.9	80021.9	0.73%					30	5	83.50	TCHSLT
AAB0112_6-25	25	6	12	82970.5	82970.5	0.50%					36	6	144.08	TCHSLT
AAB0212_6-25	25	6	12	83087.2	83087.2	0.49%					42	7	131.33	TCHSLT
AAB0312_6-25	25	6	12	81094.4	81094.4	0.41%					30	5	112.54	TCHSLT
AAB0412_6-25	25	6	12	84667.6	84667.6	0.27%					48	8	221.60	TCHSLT
AAB0512_6-25	25	6	12	80088.5	80088.5	1.21%					42	7	114.33	TCHSLT
AAB0612_6-25	25	6	12	77058.9	77058.9	0.29%					30	5	81.69	TCHSLT
AAB0712_6-25	25	6	12	79909.0	79909.0	0.45%					24	4	58.78	TCHSLT
AAB0812_6-25	25	6	12	79332.3	79332.3	0.48%					42	7	98.44	TCHSLT
AAB0912_6-25	25	6	12	86508.4	86508.4	1.43%					24	4	75.31	TCHSLT
AAB0018_6-25	25	6	18	115930.2	115930.2	0.35%					48	6	259.70	TCHSLT
AAB0118_6-25	25	6	18	121304.2	121304.2	0.65%					56	7	261.10	TCHSLT
AAB0218_6-25	25	6	18	124373.3	124373.3	0.26%					48	6	262.82	TCHSLT
AAB0318_6-25	25	6	18	120516.1	120516.1	-0.07%					64	8	399.59	TCHSLT
AAB0418_6-25	25	6	18	125353.9	125353.9	-0.63%					48	6	295.79	TCHSLT
AAB0518_6-25	25	6	18	121574.5	121574.5	0.79%					48	6	206.26	TCHSLT
AAB0618_6-25	25	6	18	112822.9	112822.9	0.29%					56	7	234.52	TCHSLT
AAB0718_6-25	25	6	18	117884.7	117884.7	0.05%					48	6	150.09	TCHSLT
AAB0818_6-25	25	6	18	113596.9	113596.9	0.16%					40	5	167.04	TCHSLT
AAB0918_6-25	25	6	18	126678.8	126678.8	0.30%					48	6	245.66	TCHSLT
AAB006_6-50	50	6	6	77143.7	77143.7	0.58%					20	4	67.75	TCHSLT
AAB016_6-50	50	6	6	80747.7	80747.7	0.70%					20	4	89.41	TCHSLT
AAB026_6-50	50	6	6	83334.4	83334.4	0.24%					15	3	70.89	TCHSLT
AAB036_6-50	50	6	6	81012.5	81012.5	0.61%					20	4	63.03	TCHSLT
AAB046_6-50	50	6	6	84088.3	84088.3	0.14%					25	5	88.95	TCHSLT
AAB056_6-50	50	6	6	84940.1	84940.1	0.54%					20	4	86.97	TCHSLT
AAB066_6-50	50	6	6	81128.4	81128.4	0.21%					25	5	101.55	TCHSLT
AAB076_6-50	50	6	6	83504.4	83504.4	0.28%					25	5	50.69	TCHSLT
AAB086_6-50	50	6	6	79906.4	79906.4	0.40%					15	3	52.52	TCHSLT
AAB096_6-50	50	6	6	80650.7	80650.7	0.14%					30	6	83.33	TCHSLT
AAB0012_6-50	50	6	12	148930.3	148930.3	0.17%					48	8	169.72	TCHSLT
AAB0112_6-50	50	6	12	151734.8	151734.8	0.36%					36	6	121.91	TCHSLT
AAB0212_6-50	50	6	12	157106.8	157106.8	0.19%					24	4	147.04	TCHSLT
AAB0312_6-50	50	6	12	154969.7	154969.7	0.16%					24	4	121.65	TCHSLT
AAB0412_6-50	50	6	12	163655.1	163655.1	0.77%					42	7	198.16	TCHSLT
AAB0512_6-50	50	6	12	161247.9	161247.9	0.26%					36	6	169.43	TCHSLT
AAB0612_6-50	50	6	12	151850.4	151850.4	0.02%					54	9	296.70	TCHSLT
AAB0712_6-50	50	6	12	158762.2	158762.2	0.14%					30	5	118.85	TCHSLT
AAB0812_6-50	50	6	12	146729.8	146729.8	0.42%					36	6	147.53	TCHSLT
AAB0912_6-50	50	6	12	155073.4	155073.4	0.54%					30	5	150.97	TCHSLT
AAB0018_6-50	50	6	18	219298.8	219298.8	0.11%					40	5	248.70	TCHSLT
AAB0118_6-50	50	6	18	222286.8	222286.8	0.05%					40	5	256.29	TCHSLT
AAB0218_6-50	50	6	18	228187.5	228187.5	-0.12%					48	6	341.03	TCHSLT
AAB0318_6-50	50	6	18	229032.6	229032.6	-0.21%					40	5	310.61	TCHSLT
AAB0418_6-50	50	6	18	241376.7	241376.7	0.02%					48	6	480.19	TCHSLT
AAB0518_6-50	50	6	18	230300.8	230300.8	-0.06%					88	11	565.84	TCHSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0618_6-50	50	6	18	224128.2	224636.7	-0.05%					68	9	669.82	TCHSLT
AAB0718_6-50	50	6	18	232327.4	232327.4	-0.06%					40	5	267.78	TCHSLT
AAB0818_6-50	50	6	18	218799.0	218799.0	0.13%					32	4	248.30	TCHSLT
AAB0918_6-50	50	6	18	227615.5	227615.5	0.04%					32	4	289.82	TCHSLT
ABA006_2-6	6	2	6	8175.8	8175.8	0.02%					25	5	1.08	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%					10	2	0.44	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%					15	3	0.60	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%					25	5	0.63	TCLSHT
ABA046_2-6	6	2	6	7965.2	7965.2	0.60%					10	2	0.56	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%					15	3	0.35	TCLSHT
ABA066_2-6	6	2	6	8097.5	8097.5	0.54%					10	2	0.42	TCLSHT
ABA076_2-6	6	2	6	9148.9	9148.9	0.21%					15	3	0.63	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%					10	2	0.41	TCLSHT
ABA096_2-6	6	2	6	7104.4	7104.4	0.00%					15	3	0.32	TCLSHT
ABA0012_2-6	6	2	12	15609.4	15609.4	0.07%					24	4	2.39	TCLSHT
ABA0112_2-6	6	2	12	13427.4	13427.4	0.06%					18	3	1.45	TCLSHT
ABA0212_2-6	6	2	12	14728.6	14728.6	0.03%					30	5	2.48	TCLSHT
ABA0412_2-6	6	2	12	13884.7	13884.7	0.38%					24	4	3.51	TCLSHT
ABA0512_2-6	6	2	12	17403.2	17403.2	0.02%					18	3	1.17	TCLSHT
ABA0612_2-6	6	2	12	14950.6	14950.6	0.04%					12	2	0.96	TCLSHT
ABA0712_2-6	6	2	12	16617.9	16617.9	0.00%					24	4	1.97	TCLSHT
ABA0812_2-6	6	2	12	14162.9	14162.9	0.03%					18	3	1.48	TCLSHT
ABA0912_2-6	6	2	12	16127.2	16127.2	0.02%					18	3	1.01	TCLSHT
ABA0018_2-6	6	2	18	21820.1	21820.1	0.04%					32	4	8.71	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%					24	3	2.78	TCLSHT
ABA0218_2-6	6	2	18	22471.9	22471.9	0.01%					32	4	5.67	TCLSHT
ABA0418_2-6	6	2	18	20175.0	20175.0	0.00%					24	3	7.43	TCLSHT
ABA0518_2-6	6	2	18	25070.3	25070.3	0.06%					24	3	2.96	TCLSHT
ABA0618_2-6	6	2	18	22805.2	22805.2	0.00%					24	3	3.52	TCLSHT
ABA0718_2-6	6	2	18	24393.0	24393.0	0.08%					32	4	7.66	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%					40	5	4.83	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%					32	4	3.35	TCLSHT
ABA006_2-12	12	2	6	12675.3	12675.3	0.00%					15	3	0.62	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%					15	3	0.82	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%					10	2	0.68	TCLSHT
ABA036_2-12	12	2	6	16340.9	16340.9	0.00%					20	4	0.87	TCLSHT
ABA046_2-12	12	2	6	14200.4	14200.4	0.00%					10	2	0.64	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%					10	2	0.70	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%					15	3	0.60	TCLSHT
ABA076_2-12	12	2	6	15411.5	15411.5	0.05%					10	2	0.49	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%					10	2	0.68	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%					10	2	0.91	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%					18	3	1.40	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%					18	3	1.79	TCLSHT
ABA0212_2-12	12	2	12	27205.0	27205.0	0.06%					18	3	4.41	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%					30	5	2.90	TCLSHT
ABA0412_2-12	12	2	12	28351.5	28351.5	0.14%					24	4	3.16	TCLSHT
ABA0512_2-12	12	2	12	32081.3	32081.3	0.00%					12	2	1.75	TCLSHT
ABA0612_2-12	12	2	12	27240.2	27240.2	0.01%					18	3	1.84	TCLSHT
ABA0712_2-12	12	2	12	30400.7	30400.7	0.05%					18	3	2.30	TCLSHT
ABA0812_2-12	12	2	12	26690.7	26690.7	0.06%					24	4	3.14	TCLSHT
ABA0912_2-12	12	2	12	31084.9	31084.9	0.03%					18	3	4.46	TCLSHT
ABA0118_2-12	12	2	18	40448.3	40448.3	0.00%					32	4	7.82	TCLSHT
ABA0218_2-12	12	2	18	41719.4	41719.4	0.01%					32	4	10.78	TCLSHT
ABA0318_2-12	12	2	18	46264.4	46264.4	0.02%					32	4	8.32	TCLSHT
ABA0418_2-12	12	2	18	44169.3	44169.3	0.00%					24	3	4.75	TCLSHT
ABA0518_2-12	12	2	18	47324.8	47324.8	0.01%					24	3	5.22	TCLSHT
ABA0618_2-12	12	2	18	40625.1	40625.1	0.00%					32	4	5.78	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%					24	3	4.01	TCLSHT
ABA0818_2-12	12	2	18	41316.5	41316.5	0.00%					32	4	6.71	TCLSHT
ABA0918_2-12	12	2	18	47373.9	47373.9	0.01%					32	4	26.25	TCLSHT
ABA006_2-25	25	2	6	29198.3	29198.3	0.02%					15	3	0.97	TCLSHT
ABA016_2-25	25	2	6	29917.1	29917.1	0.09%					15	3	1.55	TCLSHT
ABA026_2-25	25	2	6	28576.6	28576.6	0.00%					20	4	2.08	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%					15	3	1.26	TCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA046_2-25	25	2	6	31433.8	31433.8	0.07%					10	2	1.49	TCLSHT
ABA056_2-25	25	2	6	31510.0	31510.0	0.00%					10	2	1.54	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%					10	2	0.63	TCLSHT
ABA076_2-25	25	2	6	31327.3	31327.3	0.03%					10	2	1.22	TCLSHT
ABA086_2-25	25	2	6	32150.3	32150.3	0.00%					30	6	4.04	TCLSHT
ABA096_2-25	25	2	6	33238.6	33238.6	0.06%					15	3	1.60	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%					12	2	2.64	TCLSHT
ABA0112_2-25	25	2	12	60933.5	60933.5	0.01%					18	3	4.57	TCLSHT
ABA0212_2-25	25	2	12	56234.3	56234.3	0.00%					18	3	4.88	TCLSHT
ABA0312_2-25	25	2	12	59208.1	59208.1	0.03%					24	4	6.65	TCLSHT
ABA0412_2-25	25	2	12	59680.6	59680.6	0.01%					18	3	4.51	TCLSHT
ABA0512_2-25	25	2	12	65047.9	65047.9	0.04%					24	4	10.34	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%					12	2	1.39	TCLSHT
ABA0712_2-25	25	2	12	62797.0	62797.0	0.05%					24	4	6.66	TCLSHT
ABA0812_2-25	25	2	12	62888.4	62888.4	0.03%					24	4	16.12	TCLSHT
ABA0912_2-25	25	2	12	63992.8	63992.8	0.02%					18	3	6.21	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%					16	2	3.60	TCLSHT
ABA0118_2-25	25	2	18	88585.5	88585.5	0.00%					24	3	10.28	TCLSHT
ABA0218_2-25	25	2	18	83280.0	83280.0	0.02%					48	6	19.13	TCLSHT
ABA0318_2-25	25	2	18	91360.6	91360.6	0.00%					32	4	13.93	TCLSHT
ABA0418_2-25	25	2	18	90599.0	90599.0	0.01%					16	2	9.94	TCLSHT
ABA0518_2-25	25	2	18	95130.3	95130.3	0.01%					24	3	41.46	TCLSHT
ABA0618_2-25	25	2	18	83556.7	83556.7	0.02%					24	3	3.78	TCLSHT
ABA0718_2-25	25	2	18	92162.0	92162.0	0.00%					40	5	18.90	TCLSHT
ABA0818_2-25	25	2	18	91526.2	91526.2	0.00%					24	3	31.83	TCLSHT
ABA0918_2-25	25	2	18	93150.3	93150.3	0.01%					48	6	15.70	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%					10	2	1.63	TCLSHT
ABA016_2-50	50	2	6	60308.0	60308.0	0.01%					10	2	1.64	TCLSHT
ABA026_2-50	50	2	6	56150.4	56150.4	0.02%					15	3	3.50	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%					10	2	1.81	TCLSHT
ABA046_2-50	50	2	6	60900.4	60900.4	0.03%					15	3	3.55	TCLSHT
ABA056_2-50	50	2	6	59362.1	59362.1	0.03%					15	3	2.70	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%					10	2	2.12	TCLSHT
ABA076_2-50	50	2	6	58961.9	58961.9	0.01%					10	2	2.46	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%					10	2	2.22	TCLSHT
ABA096_2-50	50	2	6	60666.9	60666.9	0.00%					15	3	2.28	TCLSHT
ABA0012_2-50	50	2	12	117326.1	117326.1	0.01%					24	4	7.09	TCLSHT
ABA0112_2-50	50	2	12	119909.5	119909.5	0.02%					24	4	8.38	TCLSHT
ABA0212_2-50	50	2	12	114060.9	114060.9	0.00%					24	4	10.68	TCLSHT
ABA0312_2-50	50	2	12	119935.6	119935.6	0.00%					18	3	8.36	TCLSHT
ABA0412_2-50	50	2	12	122242.4	122242.4	0.00%					24	4	17.86	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%					18	3	4.57	TCLSHT
ABA0612_2-50	50	2	12	113649.2	113649.2	0.01%					12	2	4.06	TCLSHT
ABA0712_2-50	50	2	12	114728.5	114728.5	0.01%					18	3	15.71	TCLSHT
ABA0812_2-50	50	2	12	115434.1	115434.1	0.01%					18	3	7.90	TCLSHT
ABA0912_2-50	50	2	12	122430.5	122430.5	0.01%					18	3	7.71	TCLSHT
ABA0018_2-50	50	2	18	175783.6	175783.6	0.00%					16	2	6.57	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%					16	2	6.46	TCLSHT
ABA0218_2-50	50	2	18	169735.9	169735.9	0.00%					24	3	17.23	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%					24	3	9.92	TCLSHT
ABA0418_2-50	50	2	18	182040.2	182040.2	0.02%					40	5	137.93	TCLSHT
ABA0518_2-50	50	2	18	181094.6	181094.6	0.01%					16	2	15.39	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%					24	3	10.11	TCLSHT
ABA0718_2-50	50	2	18	172463.7	172463.7	0.00%					24	3	12.29	TCLSHT
ABA0818_2-50	50	2	18	173618.6	173618.6	0.01%					32	4	19.43	TCLSHT
ABA0918_2-50	50	2	18	182991.0	182991.0	0.00%					16	2	20.41	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%					15	3	0.84	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%					30	6	2.46	TCLSHT
ABA026_4-6	6	4	6	7336.3	7336.3	0.03%					15	3	0.79	TCLSHT
ABA036_4-6	6	4	6	6706.7	6706.7	0.10%					15	3	1.04	TCLSHT
ABA046_4-6	6	4	6	5553.5	5553.5	0.00%					15	3	0.81	TCLSHT
ABA056_4-6	6	4	6	7907.9	7907.9	0.00%					15	3	2.09	TCLSHT
ABA066_4-6	6	4	6	6384.9	6384.9	0.28%					15	3	0.96	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%					10	2	0.56	TCLSHT
ABA086_4-6	6	4	6	5863.1	5863.1	0.07%					20	4	1.02	TCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA096_4-6	6	4	6	8598.5	8598.5	0.54%					15	3	0.94	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%					18	3	1.91	TCLSHT
ABA0112_4-6	6	4	12	15268.3	15268.3	0.00%					30	5	5.71	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%					24	4	3.62	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%					18	3	3.32	TCLSHT
ABA0412_4-6	6	4	12	12864.5	12864.5	0.00%					36	6	7.97	TCLSHT
ABA0512_4-6	6	4	12	15837.1	15837.1	0.13%					24	4	8.61	TCLSHT
ABA0612_4-6	6	4	12	12780.3	12780.3	0.28%					18	3	3.14	TCLSHT
ABA0712_4-6	6	4	12	14690.0	14690.0	0.03%					24	4	3.21	TCLSHT
ABA0812_4-6	6	4	12	12383.2	12383.2	0.18%					24	4	4.40	TCLSHT
ABA0912_4-6	6	4	12	14845.8	14845.8	0.00%					18	3	3.81	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%					32	4	10.92	TCLSHT
ABA0118_4-6	6	4	18	21741.5	21741.5	0.04%					32	4	24.21	TCLSHT
ABA0218_4-6	6	4	18	21436.3	21436.3	0.02%					32	4	9.37	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%					32	4	10.02	TCLSHT
ABA0418_4-6	6	4	18	19939.4	19939.4	0.03%					40	5	9.44	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.00%					40	5	21.41	TCLSHT
ABA0618_4-6	6	4	18	19784.2	19784.2	0.09%					32	4	14.13	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%					32	4	7.90	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%					24	3	7.09	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%					24	3	8.29	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%					15	3	1.69	TCLSHT
ABA016_4-12	12	4	6	15439.5	15439.5	0.00%					15	3	3.75	TCLSHT
ABA026_4-12	12	4	6	13157.6	13157.6	0.00%					15	3	1.43	TCLSHT
ABA036_4-12	12	4	6	12340.3	12340.3	0.00%					15	3	1.72	TCLSHT
ABA046_4-12	12	4	6	14390.6	14390.6	0.10%					10	2	1.36	TCLSHT
ABA056_4-12	12	4	6	14184.0	14184.0	0.01%					15	3	2.28	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%					10	2	1.04	TCLSHT
ABA076_4-12	12	4	6	12500.9	12500.9	0.16%					10	2	1.48	TCLSHT
ABA086_4-12	12	4	6	14701.0	14701.0	0.01%					20	4	1.59	TCLSHT
ABA096_4-12	12	4	6	13295.2	13295.2	0.19%					20	4	3.70	TCLSHT
ABA0012_4-12	12	4	12	24828.0	24828.0	0.29%					30	5	10.24	TCLSHT
ABA0112_4-12	12	4	12	28685.5	28685.5	0.13%					24	4	13.59	TCLSHT
ABA0212_4-12	12	4	12	26547.8	26547.8	0.08%					36	6	8.65	TCLSHT
ABA0312_4-12	12	4	12	25466.3	25466.3	0.01%					24	4	5.55	TCLSHT
ABA0412_4-12	12	4	12	27379.9	27379.9	0.04%					24	4	6.45	TCLSHT
ABA0512_4-12	12	4	12	27926.4	27926.4	0.01%					24	4	7.99	TCLSHT
ABA0612_4-12	12	4	12	24647.5	24647.5	0.13%					18	3	2.67	TCLSHT
ABA0712_4-12	12	4	12	26378.1	26378.1	0.09%					18	3	7.39	TCLSHT
ABA0812_4-12	12	4	12	28141.0	28141.0	0.00%					18	3	5.41	TCLSHT
ABA0912_4-12	12	4	12	28669.6	28669.6	0.12%					24	4	15.03	TCLSHT
ABA0018_4-12	12	4	18	38443.7	38443.7	-0.01%					32	4	37.55	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.02%					40	5	73.66	TCLSHT
ABA0218_4-12	12	4	18	39454.4	39454.4	0.00%					32	4	14.66	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.00%					32	4	21.91	TCLSHT
ABA0418_4-12	12	4	18	40770.2	40770.2	0.01%					32	4	18.18	TCLSHT
ABA0518_4-12	12	4	18	41146.6	41146.6	0.05%					32	4	20.50	TCLSHT
ABA0618_4-12	12	4	18	37160.0	37160.0	0.00%					32	4	8.31	TCLSHT
ABA0718_4-12	12	4	18	41285.0	41285.0	0.03%					32	4	29.73	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%					32	4	16.25	TCLSHT
ABA0918_4-12	12	4	18	41703.7	41703.7	-0.06%					32	4	50.90	TCLSHT
ABA006_4-25	25	4	6	25601.1	25601.1	0.01%					15	3	2.69	TCLSHT
ABA016_4-25	25	4	6	29516.4	29516.4	0.06%					15	3	2.76	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%					15	3	6.26	TCLSHT
ABA036_4-25	25	4	6	26044.5	26044.5	0.04%					20	4	5.43	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%					10	2	1.31	TCLSHT
ABA056_4-25	25	4	6	30212.6	30212.6	0.15%					10	2	3.73	TCLSHT
ABA066_4-25	25	4	6	25386.9	25386.9	0.04%					15	3	1.69	TCLSHT
ABA076_4-25	25	4	6	27076.7	27076.7	0.03%					15	3	5.02	TCLSHT
ABA086_4-25	25	4	6	26279.4	26279.4	0.06%					15	3	2.11	TCLSHT
ABA096_4-25	25	4	6	27977.3	27977.3	0.07%					15	3	4.98	TCLSHT
ABA0012_4-25	25	4	12	53759.3	53759.3	0.01%					30	5	20.34	TCLSHT
ABA0112_4-25	25	4	12	56375.8	56375.8	0.01%					18	3	8.60	TCLSHT
ABA0212_4-25	25	4	12	53351.0	53351.0	0.03%					24	4	21.47	TCLSHT
ABA0312_4-25	25	4	12	54126.7	54126.7	0.02%					18	3	19.16	TCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0412_4-25	25	4	12	54965.9	54965.9	0.00%					18	3	5.17	TCLSHT
ABA0512_4-25	25	4	12	57168.0	57168.0	0.07%					18	3	12.88	TCLSHT
ABA0612_4-25	25	4	12	50721.7	50721.7	0.02%					12	2	3.61	TCLSHT
ABA0712_4-25	25	4	12	55604.8	55604.8	0.04%					24	4	36.51	TCLSHT
ABA0812_4-25	25	4	12	54123.1	54123.1	0.01%					24	4	13.74	TCLSHT
ABA0912_4-25	25	4	12	54965.3	54965.3	0.00%					24	4	33.30	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.01%					32	4	43.90	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%					32	4	16.92	TCLSHT
ABA0218_4-25	25	4	18	80999.4	80999.4	0.02%					32	4	55.50	TCLSHT
ABA0318_4-25	25	4	18	80508.1	80508.1	0.01%					24	3	22.69	TCLSHT
ABA0418_4-25	25	4	18	83338.3	83338.3	0.00%					16	2	5.51	TCLSHT
ABA0518_4-25	25	4	18	84453.4	84453.4	0.02%					32	4	29.50	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%					16	2	9.35	TCLSHT
ABA0718_4-25	25	4	18	82773.5	82773.5	0.06%					24	3	59.07	TCLSHT
ABA0818_4-25	25	4	18	78520.8	78520.8	0.00%					32	4	18.63	TCLSHT
ABA0918_4-25	25	4	18	82442.2	82442.2	0.00%					40	5	49.75	TCLSHT
ABA006_4-50	50	4	6	54643.6	54643.6	0.00%					15	3	3.60	TCLSHT
ABA016_4-50	50	4	6	55415.2	55415.2	0.02%					15	3	3.66	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%					10	2	3.38	TCLSHT
ABA036_4-50	50	4	6	55279.3	55279.3	0.03%					15	3	7.74	TCLSHT
ABA046_4-50	50	4	6	56931.4	56931.4	0.03%					15	3	12.52	TCLSHT
ABA056_4-50	50	4	6	57378.7	57378.7	0.00%					20	4	5.17	TCLSHT
ABA066_4-50	50	4	6	52880.3	52880.3	0.02%					15	3	4.04	TCLSHT
ABA076_4-50	50	4	6	51697.5	51697.5	0.03%					10	2	5.40	TCLSHT
ABA086_4-50	50	4	6	52932.3	52932.3	0.02%					10	2	5.82	TCLSHT
ABA096_4-50	50	4	6	60180.8	60180.8	0.03%					10	2	3.98	TCLSHT
ABA0012_4-50	50	4	12	110472.8	110472.8	0.00%					24	4	50.80	TCLSHT
ABA0112_4-50	50	4	12	108467.8	108467.8	0.01%					18	3	8.91	TCLSHT
ABA0212_4-50	50	4	12	108025.1	108025.1	0.01%					18	3	13.89	TCLSHT
ABA0312_4-50	50	4	12	110202.5	110202.5	0.00%					18	3	15.95	TCLSHT
ABA0412_4-50	50	4	12	109698.8	109698.8	0.00%					18	3	35.59	TCLSHT
ABA0512_4-50	50	4	12	112032.5	112032.5	0.02%					12	2	6.67	TCLSHT
ABA0612_4-50	50	4	12	104015.9	104015.9	0.00%					18	3	5.66	TCLSHT
ABA0712_4-50	50	4	12	106674.7	106674.7	0.04%					24	4	47.44	TCLSHT
ABA0812_4-50	50	4	12	106518.3	106518.3	0.01%					18	3	6.86	TCLSHT
ABA0912_4-50	50	4	12	114394.3	114394.3	0.01%					18	3	13.06	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%					24	3	34.47	TCLSHT
ABA0118_4-50	50	4	18	161819.0	161819.0	0.00%					24	3	24.75	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%					24	3	27.81	TCLSHT
ABA0318_4-50	50	4	18	163387.8	163387.8	0.02%					24	3	58.18	TCLSHT
ABA0418_4-50	50	4	18	166569.9	166569.9	-0.01%					40	5	104.05	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%					32	4	18.77	TCLSHT
ABA0618_4-50	50	4	18	156361.6	156361.6	0.00%					32	4	35.53	TCLSHT
ABA0718_4-50	50	4	18	161779.2	161779.2	0.00%					24	3	77.79	TCLSHT
ABA0818_4-50	50	4	18	157361.2	157361.2	0.00%					24	3	12.79	TCLSHT
ABA0918_4-50	50	4	18	168535.2	168535.2	0.01%					24	3	28.29	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%					15	3	1.03	TCLSHT
ABA016_6-6	6	6	6	7319.1	7319.1	0.28%					20	4	5.14	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%					15	3	1.11	TCLSHT
ABA036_6-6	6	6	6	7413.1	7413.1	0.00%					20	4	1.18	TCLSHT
ABA046_6-6	6	6	6	8171.4	8171.4	0.21%					15	3	2.43	TCLSHT
ABA056_6-6	6	6	6	8037.9	8037.9	0.00%					15	3	2.00	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%					15	3	1.21	TCLSHT
ABA076_6-6	6	6	6	7779.2	7779.2	0.06%					15	3	2.14	TCLSHT
ABA086_6-6	6	6	6	6744.1	6744.1	0.43%					15	3	2.46	TCLSHT
ABA096_6-6	6	6	6	7580.5	7580.5	0.38%					15	3	2.93	TCLSHT
ABA0012_6-6	6	6	12	12136.4	12136.4	0.00%					18	3	2.25	TCLSHT
ABA0112_6-6	6	6	12	14295.6	14295.6	0.02%					24	4	6.91	TCLSHT
ABA0212_6-6	6	6	12	14370.6	14370.6	0.28%					18	3	9.29	TCLSHT
ABA0312_6-6	6	6	12	14874.0	14874.0	0.24%					24	4	6.64	TCLSHT
ABA0412_6-6	6	6	12	15052.4	15052.4	0.04%					30	5	10.45	TCLSHT
ABA0512_6-6	6	6	12	14768.7	14768.7	0.21%					24	4	6.89	TCLSHT
ABA0612_6-6	6	6	12	12767.0	12767.0	0.00%					18	3	6.23	TCLSHT
ABA0712_6-6	6	6	12	15339.4	15339.4	0.31%					18	3	11.46	TCLSHT
ABA0812_6-6	6	6	12	12632.9	12632.9	0.12%					24	4	18.52	TCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0912_6-6	6	6	12	14343.2	14343.2	0.04%					30	5	9.70	TCLSHT
ABA0018_6-6	6	6	18	17950.1	17950.1	0.00%					24	3	7.03	TCLSHT
ABA0218_6-6	6	6	18	20080.0	20080.0	0.03%					40	5	19.21	TCLSHT
ABA0318_6-6	6	6	18	20707.4	20707.4	0.19%					32	4	18.59	TCLSHT
ABA0418_6-6	6	6	18	22441.3	22441.3	0.02%					32	4	25.50	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%					40	5	18.55	TCLSHT
ABA0618_6-6	6	6	18	20124.0	20124.0	0.02%					32	4	19.42	TCLSHT
ABA0718_6-6	6	6	18	22023.7	22023.7	0.06%					32	4	20.02	TCLSHT
ABA0818_6-6	6	6	18	20320.3	20320.3	0.30%					32	4	25.56	TCLSHT
ABA0918_6-6	6	6	18	21702.2	21702.2	0.00%					32	4	29.64	TCLSHT
ABA006_6-12	12	6	6	12825.4	12825.4	0.10%					20	4	2.52	TCLSHT
ABA016_6-12	12	6	6	13123.5	13123.5	0.08%					10	2	2.01	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%					20	4	2.01	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%					10	2	1.33	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%					15	3	1.84	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%					20	4	1.67	TCLSHT
ABA066_6-12	12	6	6	11702.1	11702.1	0.00%					15	3	2.27	TCLSHT
ABA076_6-12	12	6	6	13572.5	13572.5	0.00%					25	5	5.92	TCLSHT
ABA086_6-12	12	6	6	13523.8	13523.8	0.40%					15	3	4.28	TCLSHT
ABA096_6-12	12	6	6	14406.8	14406.8	0.02%					15	3	4.93	TCLSHT
ABA0012_6-12	12	6	12	24267.3	24267.3	0.16%					24	4	7.55	TCLSHT
ABA0112_6-12	12	6	12	25700.2	25700.2	0.01%					24	4	9.77	TCLSHT
ABA0212_6-12	12	6	12	24227.1	24227.1	0.03%					24	4	16.80	TCLSHT
ABA0312_6-12	12	6	12	26589.5	26589.5	0.00%					18	3	5.20	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%					18	3	4.09	TCLSHT
ABA0512_6-12	12	6	12	26322.3	26322.3	0.00%					24	4	10.84	TCLSHT
ABA0612_6-12	12	6	12	23650.2	23650.2	0.05%					36	6	11.59	TCLSHT
ABA0712_6-12	12	6	12	28127.3	28127.3	0.06%					36	6	55.80	TCLSHT
ABA0812_6-12	12	6	12	25965.6	25965.6	0.00%					30	5	19.95	TCLSHT
ABA0912_6-12	12	6	12	27429.1	27429.1	0.02%					24	4	19.67	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%					32	4	21.35	TCLSHT
ABA0118_6-12	12	6	18	41270.3	41270.3	0.04%					32	4	29.20	TCLSHT
ABA0218_6-12	12	6	18	36881.3	36881.3	0.00%					24	3	27.62	TCLSHT
ABA0318_6-12	12	6	18	38518.2	38518.2	0.01%					24	3	16.28	TCLSHT
ABA0418_6-12	12	6	18	37126.2	37126.2	0.00%					32	4	13.02	TCLSHT
ABA0518_6-12	12	6	18	40636.6	40636.6	0.03%					24	3	28.01	TCLSHT
ABA0618_6-12	12	6	18	37436.0	37436.0	0.01%					32	4	38.97	TCLSHT
ABA0718_6-12	12	6	18	41647.9	41647.9	0.16%					32	4	74.52	TCLSHT
ABA0818_6-12	12	6	18	39536.4	39536.4	0.10%					32	4	80.51	TCLSHT
ABA0918_6-12	12	6	18	41320.6	41320.6	0.01%					32	4	46.00	TCLSHT
ABA006_6-25	25	6	6	25678.5	25678.5	0.07%					15	3	18.01	TCLSHT
ABA016_6-25	25	6	6	25434.6	25434.6	0.12%					15	3	13.29	TCLSHT
ABA026_6-25	25	6	6	26791.9	26791.9	0.00%					15	3	4.96	TCLSHT
ABA036_6-25	25	6	6	26823.6	26823.6	0.03%					20	4	21.61	TCLSHT
ABA046_6-25	25	6	6	28537.3	28537.3	0.07%					20	4	22.75	TCLSHT
ABA056_6-25	25	6	6	26307.5	26307.5	0.08%					20	4	14.00	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%					10	2	2.21	TCLSHT
ABA076_6-25	25	6	6	27981.4	27981.4	0.03%					20	4	8.80	TCLSHT
ABA086_6-25	25	6	6	26673.0	26673.0	0.02%					15	3	9.31	TCLSHT
ABA096_6-25	25	6	6	26356.7	26356.7	0.05%					20	4	5.87	TCLSHT
ABA0012_6-25	25	6	12	52468.3	52468.3	0.04%					18	3	47.00	TCLSHT
ABA0112_6-25	25	6	12	52631.5	52631.5	0.01%					18	3	45.76	TCLSHT
ABA0212_6-25	25	6	12	53998.8	53998.8	0.01%					18	3	17.67	TCLSHT
ABA0312_6-25	25	6	12	52459.1	52459.1	0.04%					24	4	48.22	TCLSHT
ABA0412_6-25	25	6	12	56018.9	56018.9	0.03%					30	5	71.71	TCLSHT
ABA0512_6-25	25	6	12	51812.8	51812.8	0.04%					18	3	30.59	TCLSHT
ABA0612_6-25	25	6	12	50992.9	50992.9	0.02%					18	3	7.55	TCLSHT
ABA0712_6-25	25	6	12	52727.8	52727.8	0.01%					24	4	27.32	TCLSHT
ABA0812_6-25	25	6	12	51202.5	51202.5	0.04%					24	4	17.07	TCLSHT
ABA0912_6-25	25	6	12	53586.2	53586.2	0.01%					24	4	20.64	TCLSHT
ABA0018_6-25	25	6	18	76421.3	76421.3	0.01%					32	4	141.69	TCLSHT
ABA0118_6-25	25	6	18	79420.7	79420.7	0.02%					24	3	64.32	TCLSHT
ABA0218_6-25	25	6	18	81688.0	81688.0	0.00%					32	4	62.21	TCLSHT
ABA0318_6-25	25	6	18	79844.1	79844.1	0.02%					40	5	258.96	TCLSHT
ABA0418_6-25	25	6	18	84932.3	84932.3	0.00%					32	4	144.28	TCLSHT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0518_6-25	25	6	18	80989.9	80989.9	0.00%					32	4	88.58	TCLSHT
ABA0618_6-25	25	6	18	76313.5	76313.5	0.00%					24	3	19.84	TCLSHT
ABA0718_6-25	25	6	18	77695.9	77695.9	0.01%					32	4	56.66	TCLSHT
ABA0818_6-25	25	6	18	75136.5	75136.5	0.03%					32	4	55.51	TCLSHT
ABA0918_6-25	25	6	18	81319.6	81319.6	0.02%					24	3	31.11	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%					15	3	9.75	TCLSHT
ABA016_6-50	50	6	6	50641.4	50641.4	0.00%					15	3	13.54	TCLSHT
ABA026_6-50	50	6	6	52197.8	52197.8	0.04%					15	3	28.45	TCLSHT
ABA036_6-50	50	6	6	51690.8	51690.8	0.01%					15	3	7.48	TCLSHT
ABA046_6-50	50	6	6	54018.6	54018.6	0.03%					20	4	29.05	TCLSHT
ABA056_6-50	50	6	6	52778.4	52778.4	0.04%					15	3	17.65	TCLSHT
ABA066_6-50	50	6	6	51970.2	51970.2	0.03%					15	3	34.93	TCLSHT
ABA076_6-50	50	6	6	54019.2	54019.2	0.03%					10	2	5.91	TCLSHT
ABA086_6-50	50	6	6	50871.1	50871.1	0.01%					20	4	30.79	TCLSHT
ABA096_6-50	50	6	6	50684.2	50684.2	0.02%					10	2	6.62	TCLSHT
ABA0012_6-50	50	6	12	102501.6	102501.6	0.01%					24	4	46.19	TCLSHT
ABA0112_6-50	50	6	12	101534.7	101534.7	0.01%					24	4	36.84	TCLSHT
ABA0212_6-50	50	6	12	105118.8	105118.8	0.02%					30	5	114.58	TCLSHT
ABA0312_6-50	50	6	12	102573.9	102573.9	0.01%					24	4	29.59	TCLSHT
ABA0412_6-50	50	6	12	109756.3	109756.3	0.00%					24	4	62.26	TCLSHT
ABA0512_6-50	50	6	12	105394.1	105394.1	0.03%					24	4	57.78	TCLSHT
ABA0612_6-50	50	6	12	102028.9	102028.9	0.01%					24	4	67.31	TCLSHT
ABA0712_6-50	50	6	12	107583.3	107583.3	0.02%					24	4	36.17	TCLSHT
ABA0812_6-50	50	6	12	99907.1	99907.1	0.01%					24	4	37.84	TCLSHT
ABA0912_6-50	50	6	12	102342.0	102342.0	0.03%					18	3	34.46	TCLSHT
ABA0018_6-50	50	6	18	152830.2	152830.2	0.00%					24	3	100.54	TCLSHT
ABA0118_6-50	50	6	18	150969.1	150969.1	0.00%					24	3	66.46	TCLSHT
ABA0218_6-50	50	6	18	154488.1	154488.1	0.01%					32	4	128.29	TCLSHT
ABA0318_6-50	50	6	18	154210.3	154210.3	0.01%					24	3	43.37	TCLSHT
ABA0418_6-50	50	6	18	164878.9	164878.9	0.01%					24	3	117.07	TCLSHT
ABA0518_6-50	50	6	18	155396.3	155396.3	-0.01%					40	5	164.32	TCLSHT
ABA0618_6-50	50	6	18	154273.9	154273.9	0.00%					40	5	197.13	TCLSHT
ABA0718_6-50	50	6	18	159118.6	159118.6	0.00%					32	4	85.95	TCLSHT
ABA0818_6-50	50	6	18	151035.2	151035.2	0.00%					32	4	61.50	TCLSHT
ABA0918_6-50	50	6	18	154199.2	154199.2	0.00%					24	3	70.86	TCLSHT
ABB006_2-6	6	2	6	8242.7	8242.7	0.20%					15	3	0.98	TCLSLT
ABB006_2-6	6	2	6	8242.7	8242.7	0.20%					15	3	0.94	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%					15	3	0.49	TCLSLT
ABB026_2-6	6	2	6	7157.4	7157.4	0.00%					10	2	0.63	TCLSLT
ABB046_2-6	6	2	6	8031.6	8031.6	0.00%					20	4	1.01	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%					10	2	0.35	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%					15	3	0.64	TCLSLT
ABB076_2-6	6	2	6	9232.4	9232.4	0.58%					10	2	0.47	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%					10	2	0.38	TCLSLT
ABB096_2-6	6	2	6	7159.4	7159.4	0.10%					15	3	0.34	TCLSLT
ABB0012_2-6	6	2	12	15761.7	15761.7	0.30%					18	3	3.26	TCLSLT
ABB0112_2-6	6	2	12	13461.1	13461.1	0.02%					18	3	1.56	TCLSLT
ABB0212_2-6	6	2	12	15060.1	15060.1	0.73%					30	5	3.45	TCLSLT
ABB0412_2-6	6	2	12	14164.9	14164.9	0.18%					48	8	3.57	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%					18	3	1.20	TCLSLT
ABB0612_2-6	6	2	12	15123.3	15123.3	0.26%					18	3	1.57	TCLSLT
ABB0712_2-6	6	2	12	16734.1	16734.1	0.13%					30	5	2.88	TCLSLT
ABB0812_2-6	6	2	12	14186.3	14186.3	0.00%					24	4	1.68	TCLSLT
ABB0912_2-6	6	2	12	16225.3	16225.3	0.41%					24	4	1.92	TCLSLT
ABB0018_2-6	6	2	18	22014.6	22014.6	0.09%					32	4	11.07	TCLSLT
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%					24	3	3.44	TCLSLT
ABB0218_2-6	6	2	18	22591.8	22591.8	0.00%					40	5	5.99	TCLSLT
ABB0418_2-6	6	2	18	20452.5	20452.5	0.31%					32	4	9.47	TCLSLT
ABB0518_2-6	6	2	18	25221.1	25221.1	0.09%					32	4	4.54	TCLSLT
ABB0618_2-6	6	2	18	22943.8	22943.8	0.00%					16	2	4.05	TCLSLT
ABB0718_2-6	6	2	18	24519.1	24519.1	0.03%					24	3	7.13	TCLSLT
ABB0818_2-6	6	2	18	20972.8	20972.8	0.01%					32	4	4.56	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%					24	3	3.10	TCLSLT
ABB006_2-12	12	2	6	12756.1	12756.1	0.03%					15	3	0.75	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%					25	5	1.08	TCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB026_2-12	12	2	6	14417.9	14417.9	0.24%					20	4	1.47	TCLSLT
ABB036_2-12	12	2	6	16417.8	16417.8	0.14%					15	3	0.87	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%					10	2	0.82	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%					20	4	1.28	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%					15	3	0.90	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%					15	3	0.74	TCLSLT
ABB086_2-12	12	2	6	12982.3	12982.3	0.00%					10	2	0.96	TCLSLT
ABB096_2-12	12	2	6	16050.9	16050.9	0.12%					15	3	1.26	TCLSLT
ABB0012_2-12	12	2	12	56260027076.1	56260027263.3	100.00%					6	1	1.24	TCLSLT
ABB0112_2-12	12	2	12	27509.7	27509.7	0.00%					24	4	2.94	TCLSLT
ABB0212_2-12	12	2	12	27454.5	27454.5	0.12%					18	3	3.95	TCLSLT
ABB0312_2-12	12	2	12	31887.0	31887.0	0.12%					36	6	4.78	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%					24	4	3.27	TCLSLT
ABB0512_2-12	12	2	12	32212.1	32212.1	0.04%					12	2	2.52	TCLSLT
ABB0612_2-12	12	2	12	27347.7	27347.7	0.00%					24	4	2.89	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%					18	3	2.48	TCLSLT
ABB0812_2-12	12	2	12	26749.1	26749.1	0.01%					24	4	3.24	TCLSLT
ABB0912_2-12	12	2	12	31335.2	31335.2	0.06%					30	5	7.50	TCLSLT
ABB0118_2-12	12	2	18	40656.8	40656.8	0.04%					32	4	9.15	TCLSLT
ABB0218_2-12	12	2	18	42012.8	42012.8	0.01%					32	4	16.44	TCLSLT
ABB0318_2-12	12	2	18	46500.5	46500.5	0.06%					32	4	10.50	TCLSLT
ABB0418_2-12	12	2	18	44283.7	44283.7	0.01%					32	4	8.47	TCLSLT
ABB0518_2-12	12	2	18	47455.0	47455.0	0.07%					32	4	9.86	TCLSLT
ABB0618_2-12	12	2	18	40758.7	40758.7	0.00%					24	3	5.78	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%					24	3	4.13	TCLSLT
ABB0818_2-12	12	2	18	41451.7	41451.7	0.00%					24	3	8.09	TCLSLT
ABB0918_2-12	12	2	18	47602.8	47602.8	0.08%					32	4	25.75	TCLSLT
ABB006_2-25	25	2	6	29259.2	29259.2	0.14%					10	2	0.98	TCLSLT
ABB016_2-25	25	2	6	30026.3	30026.3	0.24%					15	3	1.74	TCLSLT
ABB026_2-25	25	2	6	28805.8	28805.8	0.11%					25	5	2.68	TCLSLT
ABB036_2-25	25	2	6	30295.8	30295.8	0.07%					15	3	1.99	TCLSLT
ABB046_2-25	25	2	6	31560.1	31560.1	0.06%					15	3	1.82	TCLSLT
ABB056_2-25	25	2	6	31759.1	31759.1	0.04%					15	3	2.66	TCLSLT
ABB066_2-25	25	2	6	27896.2	27896.2	0.00%					10	2	0.82	TCLSLT
ABB076_2-25	25	2	6	31473.4	31473.4	0.11%					35	7	4.24	TCLSLT
ABB086_2-25	25	2	6	32358.5	32358.5	0.02%					15	3	1.87	TCLSLT
ABB096_2-25	25	2	6	33494.3	33494.3	0.08%					15	3	2.48	TCLSLT
ABB0012_2-25	25	2	12	58331.9	58331.9	0.01%					12	2	4.37	TCLSLT
ABB0112_2-25	25	2	12	61118.9	61118.9	0.05%					18	3	9.19	TCLSLT
ABB0212_2-25	25	2	12	56470.6	56470.6	0.04%					24	4	8.00	TCLSLT
ABB0312_2-25	25	2	12	59380.7	59380.7	0.05%					24	4	14.75	TCLSLT
ABB0412_2-25	25	2	12	59863.0	59863.0	0.01%					36	6	6.38	TCLSLT
ABB0512_2-25	25	2	12	65399.9	65399.9	0.05%					18	3	10.56	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%					12	2	1.80	TCLSLT
ABB0712_2-25	25	2	12	62955.8	62955.8	0.03%					24	4	9.44	TCLSLT
ABB0812_2-25	25	2	12	63126.8	63126.8	0.01%					30	5	14.72	TCLSLT
ABB0912_2-25	25	2	12	64159.3	64159.3	0.02%					24	4	8.02	TCLSLT
ABB0018_2-25	25	2	18	87109.7	87109.7	0.01%					32	4	20.69	TCLSLT
ABB0118_2-25	25	2	18	88772.6	88772.6	0.02%					32	4	22.73	TCLSLT
ABB0218_2-25	25	2	18	83548.6	83548.6	0.03%					48	6	21.78	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.00%					32	4	45.85	TCLSLT
ABB0418_2-25	25	2	18	90853.8	90853.8	0.01%					32	4	16.12	TCLSLT
ABB0518_2-25	25	2	18	95697.2	95697.2	0.10%					32	4	82.99	TCLSLT
ABB0618_2-25	25	2	18	83618.8	83618.8	0.00%					16	2	4.25	TCLSLT
ABB0718_2-25	25	2	18	92478.4	92478.4	0.03%					32	4	53.87	TCLSLT
ABB0818_2-25	25	2	18	91834.7	91834.7	0.01%					32	4	43.94	TCLSLT
ABB0918_2-25	25	2	18	93427.6	93427.6	0.01%					32	4	27.91	TCLSLT
ABB006_2-50	50	2	6	58845.1	58845.1	0.00%					10	2	1.83	TCLSLT
ABB016_2-50	50	2	6	60378.9	60378.9	0.01%					10	2	2.07	TCLSLT
ABB026_2-50	50	2	6	56441.4	56441.4	0.02%					10	2	3.60	TCLSLT
ABB036_2-50	50	2	6	59469.3	59469.3	0.01%					10	2	2.13	TCLSLT
ABB046_2-50	50	2	6	61238.1	61238.1	0.04%					15	3	5.24	TCLSLT
ABB056_2-50	50	2	6	59593.3	59593.3	0.07%					10	2	2.48	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%					20	4	2.95	TCLSLT
ABB076_2-50	50	2	6	59134.5	59134.5	0.02%					10	2	2.74	TCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB086_2-50	50	2	6	60205.4	60205.4	0.03%					15	3	3.58	TCLSLT
ABB096_2-50	50	2	6	60810.4	60810.4	0.01%					15	3	2.51	TCLSLT
ABB0012_2-50	50	2	12	117391.8	117391.8	0.00%					12	2	5.46	TCLSLT
ABB0112_2-50	50	2	12	119978.1	119978.1	0.00%					12	2	4.96	TCLSLT
ABB0212_2-50	50	2	12	114372.2	114372.2	0.04%					18	3	15.01	TCLSLT
ABB0312_2-50	50	2	12	120108.7	120108.7	0.00%					18	3	6.99	TCLSLT
ABB0412_2-50	50	2	12	122592.5	122592.5	0.01%					24	4	14.76	TCLSLT
ABB0512_2-50	50	2	12	119648.8	119648.8	0.02%					24	4	26.27	TCLSLT
ABB0612_2-50	50	2	12	113745.9	113745.9	0.01%					18	3	6.02	TCLSLT
ABB0712_2-50	50	2	12	115030.9	115030.9	0.01%					12	2	14.03	TCLSLT
ABB0812_2-50	50	2	12	115728.4	115728.4	0.03%					24	4	22.31	TCLSLT
ABB0912_2-50	50	2	12	122646.6	122646.6	0.02%					30	5	11.97	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%					16	2	7.40	TCLSLT
ABB0118_2-50	50	2	18	178899.1	178899.1	0.00%					16	2	13.51	TCLSLT
ABB0218_2-50	50	2	18	170089.5	170089.5	0.01%					40	5	65.95	TCLSLT
ABB0318_2-50	50	2	18	181255.1	181255.1	0.01%					32	4	52.99	TCLSLT
ABB0418_2-50	50	2	18	182969.5	182969.5	0.01%					24	3	95.34	TCLSLT
ABB0518_2-50	50	2	18	181347.2	181347.2	0.00%					16	2	23.69	TCLSLT
ABB0618_2-50	50	2	18	171902.8	171902.8	0.00%					24	3	13.09	TCLSLT
ABB0718_2-50	50	2	18	172677.2	172677.2	0.00%					24	3	30.15	TCLSLT
ABB0818_2-50	50	2	18	173944.6	173944.6	0.00%					32	4	38.77	TCLSLT
ABB0918_2-50	50	2	18	183308.1	183308.1	0.00%					24	3	47.93	TCLSLT
ABB006_4-6	6	4	6	6464.9	6464.9	0.11%					15	3	1.09	TCLSLT
ABB016_4-6	6	4	6	7416.4	7416.4	0.00%					20	4	1.86	TCLSLT
ABB026_4-6	6	4	6	7463.2	7463.2	0.00%					15	3	1.05	TCLSLT
ABB036_4-6	6	4	6	6864.4	6864.4	0.65%					15	3	1.23	TCLSLT
ABB046_4-6	6	4	6	5696.2	5696.2	0.25%					15	3	1.16	TCLSLT
ABB056_4-6	6	4	6	8082.9	8082.9	0.79%					20	4	2.84	TCLSLT
ABB066_4-6	6	4	6	6518.7	6518.7	0.22%					10	2	0.88	TCLSLT
ABB076_4-6	6	4	6	7826.7	7826.7	0.03%					15	3	0.93	TCLSLT
ABB086_4-6	6	4	6	5927.7	5927.7	0.18%					15	3	0.94	TCLSLT
ABB096_4-6	6	4	6	8629.8	8629.8	0.22%					15	3	1.23	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%					18	3	2.84	TCLSLT
ABB0112_4-6	6	4	12	15530.8	15530.8	0.00%					30	5	6.64	TCLSLT
ABB0212_4-6	6	4	12	14799.1	14799.1	0.04%					18	3	3.85	TCLSLT
ABB0312_4-6	6	4	12	14731.8	14731.8	0.09%					24	4	3.63	TCLSLT
ABB0412_4-6	6	4	12	13197.0	13197.0	0.00%					36	6	8.97	TCLSLT
ABB0512_4-6	6	4	12	16281.1	16281.1	0.14%					24	4	10.00	TCLSLT
ABB0612_4-6	6	4	12	12964.9	12964.9	0.08%					24	4	4.42	TCLSLT
ABB0712_4-6	6	4	12	14884.5	14884.5	0.00%					24	4	3.88	TCLSLT
ABB0812_4-6	6	4	12	12604.2	12604.2	0.05%					18	3	3.43	TCLSLT
ABB0912_4-6	6	4	12	15131.0	15131.0	0.09%					18	3	4.72	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%					24	3	11.36	TCLSLT
ABB0118_4-6	6	4	18	22174.7	22174.7	0.07%					40	5	19.97	TCLSLT
ABB0218_4-6	6	4	18	21734.9	21734.9	0.00%					32	4	15.66	TCLSLT
ABB0318_4-6	6	4	18	22551.6	22551.6	0.04%					48	6	13.45	TCLSLT
ABB0418_4-6	6	4	18	20301.9	20301.9	0.09%					32	4	14.39	TCLSLT
ABB0518_4-6	6	4	18	24115.8	24115.8	0.11%					56	7	45.26	TCLSLT
ABB0618_4-6	6	4	18	20158.6	20158.6	0.01%					24	3	17.07	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%					32	4	9.34	TCLSLT
ABB0818_4-6	6	4	18	18406.8	18406.8	0.00%					32	4	9.47	TCLSLT
ABB0918_4-6	6	4	18	22391.8	22391.8	0.00%					40	5	10.57	TCLSLT
ABB006_4-12	12	4	6	13448.6	13448.6	0.02%					10	2	1.79	TCLSLT
ABB016_4-12	12	4	6	15682.2	15682.2	0.20%					15	3	4.15	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%					15	3	2.15	TCLSLT
ABB036_4-12	12	4	6	12518.8	12518.8	0.41%					15	3	3.17	TCLSLT
ABB046_4-12	12	4	6	14484.3	14484.3	0.00%					15	3	2.34	TCLSLT
ABB056_4-12	12	4	6	14352.4	14352.4	0.08%					15	3	3.16	TCLSLT
ABB066_4-12	12	4	6	12697.2	12697.2	0.00%					20	4	1.21	TCLSLT
ABB076_4-12	12	4	6	12606.8	12606.8	0.01%					15	3	2.11	TCLSLT
ABB086_4-12	12	4	6	14773.6	14773.6	0.02%					20	4	2.14	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%					25	5	3.62	TCLSLT
ABB0012_4-12	12	4	12	25174.1	25174.1	0.00%					24	4	22.97	TCLSLT
ABB0112_4-12	12	4	12	29059.5	29059.5	0.05%					30	5	47.78	TCLSLT
ABB0212_4-12	12	4	12	26767.7	26767.7	0.06%					24	4	11.66	TCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0312_4-12	12	4	12	25913.3	25913.3	0.22%					24	4	19.57	TCLSLT
ABB0412_4-12	12	4	12	27618.7	27618.7	0.07%					24	4	11.18	TCLSLT
ABB0512_4-12	12	4	12	28265.4	28265.4	0.07%					24	4	22.51	TCLSLT
ABB0612_4-12	12	4	12	24803.9	24803.9	0.20%					24	4	3.90	TCLSLT
ABB0712_4-12	12	4	12	26739.1	26739.1	0.35%					24	4	10.56	TCLSLT
ABB0812_4-12	12	4	12	28377.3	28377.3	0.02%					24	4	9.17	TCLSLT
ABB0912_4-12	12	4	12	29074.9	29074.9	0.21%					30	5	53.01	TCLSLT
ABB0018_4-12	12	4	18	38913.3	38913.3	0.01%					32	4	60.95	TCLSLT
ABB0118_4-12	12	4	18	42643.6	42643.6	-0.03%					40	5	83.25	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.00%					32	4	27.06	TCLSLT
ABB0318_4-12	12	4	18	40308.1	40308.1	-0.03%					32	4	88.32	TCLSLT
ABB0418_4-12	12	4	18	41095.1	41095.1	0.05%					32	4	29.20	TCLSLT
ABB0518_4-12	12	4	18	41421.6	41421.6	0.02%					24	3	33.64	TCLSLT
ABB0618_4-12	12	4	18	37393.7	37393.7	0.00%					32	4	11.06	TCLSLT
ABB0718_4-12	12	4	18	41704.4	41704.4	0.03%					40	5	47.10	TCLSLT
ABB0818_4-12	12	4	18	43224.5	43224.5	0.07%					32	4	26.86	TCLSLT
ABB0918_4-12	12	4	18	42114.9	42114.9	0.03%					24	3	72.70	TCLSLT
ABB006_4-25	25	4	6	25711.8	25711.8	0.02%					20	4	3.53	TCLSLT
ABB016_4-25	25	4	6	29649.4	29649.4	0.08%					15	3	3.06	TCLSLT
ABB026_4-25	25	4	6	27869.3	27869.3	0.06%					15	3	19.84	TCLSLT
ABB036_4-25	25	4	6	26302.8	26302.8	0.04%					15	3	9.78	TCLSLT
ABB046_4-25	25	4	6	26760.7	26760.7	0.01%					15	3	2.14	TCLSLT
ABB056_4-25	25	4	6	30269.3	30269.3	0.00%					25	5	4.59	TCLSLT
ABB066_4-25	25	4	6	25487.5	25487.5	0.06%					20	4	2.57	TCLSLT
ABB076_4-25	25	4	6	27323.4	27323.4	0.01%					15	3	12.48	TCLSLT
ABB086_4-25	25	4	6	26363.1	26363.1	0.05%					10	2	2.50	TCLSLT
ABB096_4-25	25	4	6	28096.7	28096.7	0.07%					20	4	5.69	TCLSLT
ABB0012_4-25	25	4	12	54090.1	54090.1	-0.02%					30	5	78.42	TCLSLT
ABB0112_4-25	25	4	12	56555.9	56555.9	0.03%					18	3	19.15	TCLSLT
ABB0212_4-25	25	4	12	53615.0	53615.0	0.02%					36	6	92.15	TCLSLT
ABB0312_4-25	25	4	12	54460.3	54460.3	0.01%					36	6	59.64	TCLSLT
ABB0412_4-25	25	4	12	55098.5	55098.5	0.00%					12	2	7.41	TCLSLT
ABB0512_4-25	25	4	12	57291.5	57291.5	0.00%					24	4	37.71	TCLSLT
ABB0612_4-25	25	4	12	50868.4	50868.4	0.02%					24	4	9.92	TCLSLT
ABB0712_4-25	25	4	12	55976.1	55976.1	0.05%					24	4	64.78	TCLSLT
ABB0812_4-25	25	4	12	54354.8	54354.8	0.04%					30	5	43.58	TCLSLT
ABB0912_4-25	25	4	12	55256.5	55256.5	0.00%					24	4	53.55	TCLSLT
ABB0018_4-25	25	4	18	78507.5	78507.5	0.00%					40	5	123.67	TCLSLT
ABB0118_4-25	25	4	18	84166.3	84166.3	0.00%					40	5	67.15	TCLSLT
ABB0218_4-25	25	4	18	81396.6	81396.6	0.02%					48	6	235.38	TCLSLT
ABB0318_4-25	25	4	18	81013.6	81013.6	0.04%					32	4	113.72	TCLSLT
ABB0418_4-25	25	4	18	83484.4	83484.4	0.01%					24	3	15.41	TCLSLT
ABB0518_4-25	25	4	18	84744.9	84744.9	0.09%					40	5	98.25	TCLSLT
ABB0618_4-25	25	4	18	77583.7	77583.7	0.01%					32	4	16.47	TCLSLT
ABB0718_4-25	25	4	18	83268.4	83268.4	0.03%					40	5	195.62	TCLSLT
ABB0818_4-25	25	4	18	78744.9	78744.9	0.00%					32	4	43.88	TCLSLT
ABB0918_4-25	25	4	18	82849.5	82849.5	0.06%					32	4	127.28	TCLSLT
ABB006_4-50	50	4	6	54785.4	54785.4	0.01%					10	2	7.35	TCLSLT
ABB016_4-50	50	4	6	55555.5	55555.5	0.02%					10	2	5.97	TCLSLT
ABB026_4-50	50	4	6	56248.9	56248.9	0.03%					15	3	11.13	TCLSLT
ABB036_4-50	50	4	6	55563.6	55563.6	0.05%					15	3	19.28	TCLSLT
ABB046_4-50	50	4	6	57291.6	57291.6	0.04%					20	4	53.80	TCLSLT
ABB056_4-50	50	4	6	57508.3	57508.3	0.00%					15	3	7.15	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%					10	2	3.88	TCLSLT
ABB076_4-50	50	4	6	51877.7	51877.7	0.04%					20	4	8.51	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%					15	3	7.12	TCLSLT
ABB096_4-50	50	4	6	60295.3	60295.3	0.04%					20	4	7.16	TCLSLT
ABB0012_4-50	50	4	12	110823.4	110823.4	0.00%					30	5	78.78	TCLSLT
ABB0112_4-50	50	4	12	108644.6	108644.6	0.02%					24	4	30.35	TCLSLT
ABB0212_4-50	50	4	12	108299.1	108299.1	0.01%					24	4	39.53	TCLSLT
ABB0312_4-50	50	4	12	110660.0	110660.0	0.04%					30	5	101.13	TCLSLT
ABB0412_4-50	50	4	12	110192.8	110192.8	0.03%					12	2	38.27	TCLSLT
ABB0512_4-50	50	4	12	112153.7	112153.7	0.02%					18	3	21.54	TCLSLT
ABB0612_4-50	50	4	12	104158.4	104158.4	0.01%					18	3	13.32	TCLSLT
ABB0712_4-50	50	4	12	107062.1	107062.1	0.01%					12	2	46.27	TCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0812_4-50	50	4	12	106702.6	106702.6	0.02%					18	3	17.81	TCLSLT
ABB0912_4-50	50	4	12	114604.9	114604.9	0.00%					18	3	43.04	TCLSLT
ABB0018_4-50	50	4	18	160422.5	160422.5	0.00%					24	3	79.63	TCLSLT
ABB0118_4-50	50	4	18	162040.4	162040.4	0.00%					32	4	42.32	TCLSLT
ABB0218_4-50	50	4	18	163370.1	163370.1	0.00%					32	4	95.72	TCLSLT
ABB0318_4-50	50	4	18	163934.1	163934.1	0.00%					40	5	264.62	TCLSLT
ABB0418_4-50	50	4	18	167277.8	167277.8	-0.01%					40	5	218.34	TCLSLT
ABB0518_4-50	50	4	18	168385.8	168385.8	0.00%					32	4	78.55	TCLSLT
ABB0618_4-50	50	4	18	156607.8	156607.8	0.01%					24	3	49.59	TCLSLT
ABB0718_4-50	50	4	18	162369.4	162369.4	0.02%					32	4	184.12	TCLSLT
ABB0818_4-50	50	4	18	157551.6	157551.6	0.00%					32	4	42.82	TCLSLT
ABB0918_4-50	50	4	18	168763.8	168763.8	0.01%					32	4	102.45	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%					15	3	1.52	TCLSLT
ABB026_6-6	6	6	6	7116.9	7116.9	0.21%					15	3	2.14	TCLSLT
ABB036_6-6	6	6	6	7657.3	7657.3	0.24%					20	4	1.89	TCLSLT
ABB046_6-6	6	6	6	8285.5	8285.5	0.26%					15	3	2.72	TCLSLT
ABB056_6-6	6	6	6	8227.2	8227.2	0.29%					20	4	2.32	TCLSLT
ABB066_6-6	6	6	6	6868.9	6868.9	0.01%					15	3	1.68	TCLSLT
ABB076_6-6	6	6	6	7964.3	7964.3	0.27%					15	3	2.25	TCLSLT
ABB086_6-6	6	6	6	6994.4	6994.4	0.87%					25	5	3.53	TCLSLT
ABB096_6-6	6	6	6	7804.5	7804.5	0.22%					15	3	2.84	TCLSLT
ABB0012_6-6	6	6	12	12403.1	12403.1	0.08%					24	4	4.53	TCLSLT
ABB0212_6-6	6	6	12	14589.7	14589.7	0.05%					24	4	8.95	TCLSLT
ABB0312_6-6	6	6	12	15080.7	15080.7	0.01%					24	4	6.45	TCLSLT
ABB0412_6-6	6	6	12	15450.2	15450.2	0.00%					24	4	10.52	TCLSLT
ABB0512_6-6	6	6	12	15029.5	15029.5	0.07%					18	3	6.06	TCLSLT
ABB0612_6-6	6	6	12	13133.9	13133.9	0.00%					24	4	11.48	TCLSLT
ABB0712_6-6	6	6	12	15515.0	15515.0	0.03%					30	5	8.99	TCLSLT
ABB0812_6-6	6	6	12	13033.5	13033.5	0.14%					24	4	11.24	TCLSLT
ABB0912_6-6	6	6	12	14809.1	14809.1	0.24%					36	6	14.35	TCLSLT
ABB0018_6-6	6	6	18	18385.4	18385.4	0.00%					32	4	15.55	TCLSLT
ABB0218_6-6	6	6	18	20319.5	20319.5	0.01%					40	5	20.27	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%					32	4	27.59	TCLSLT
ABB0418_6-6	6	6	18	23158.2	23158.2	0.00%					32	4	36.31	TCLSLT
ABB0518_6-6	6	6	18	22886.3	22886.3	0.03%					32	4	29.95	TCLSLT
ABB0618_6-6	6	6	18	20656.2	20656.2	0.00%					32	4	32.22	TCLSLT
ABB0718_6-6	6	6	18	22430.9	22430.9	0.05%					32	4	21.76	TCLSLT
ABB0818_6-6	6	6	18	20827.2	20827.2	0.19%					32	4	32.53	TCLSLT
ABB0918_6-6	6	6	18	22350.8	22350.8	0.02%					40	5	59.88	TCLSLT
ABB006_6-12	12	6	6	12935.4	12935.4	0.07%					20	4	4.06	TCLSLT
ABB016_6-12	12	6	6	13333.1	13333.1	0.03%					25	5	6.36	TCLSLT
ABB026_6-12	12	6	6	12268.6	12268.6	0.24%					20	4	3.64	TCLSLT
ABB036_6-12	12	6	6	13147.8	13147.8	0.00%					30	6	3.45	TCLSLT
ABB046_6-12	12	6	6	12872.3	12872.3	0.07%					15	3	2.69	TCLSLT
ABB056_6-12	12	6	6	12514.8	12514.8	0.44%					15	3	2.32	TCLSLT
ABB066_6-12	12	6	6	11861.4	11861.4	0.13%					20	4	3.85	TCLSLT
ABB076_6-12	12	6	6	13880.3	13880.3	0.16%					20	4	9.86	TCLSLT
ABB086_6-12	12	6	6	13708.0	13708.0	0.00%					20	4	5.89	TCLSLT
ABB096_6-12	12	6	6	14613.5	14613.5	0.04%					20	4	17.61	TCLSLT
ABB0012_6-12	12	6	12	24521.8	24521.8	0.15%					24	4	13.14	TCLSLT
ABB0112_6-12	12	6	12	26026.6	26026.6	0.05%					24	4	23.31	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%					24	4	27.48	TCLSLT
ABB0312_6-12	12	6	12	26944.9	26944.9	0.09%					18	3	13.68	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%					24	4	9.22	TCLSLT
ABB0512_6-12	12	6	12	26648.1	26648.1	0.00%					24	4	15.94	TCLSLT
ABB0612_6-12	12	6	12	23906.1	23906.1	0.02%					36	6	15.30	TCLSLT
ABB0712_6-12	12	6	12	28621.5	28621.5	0.07%					24	4	60.88	TCLSLT
ABB0812_6-12	12	6	12	26515.0	26515.0	0.12%					30	5	35.57	TCLSLT
ABB0912_6-12	12	6	12	27767.8	27767.8	0.03%					24	4	29.61	TCLSLT
ABB0018_6-12	12	6	18	36869.7	36869.7	0.00%					32	4	29.73	TCLSLT
ABB0118_6-12	12	6	18	41709.8	41709.8	0.00%					48	6	72.45	TCLSLT
ABB0218_6-12	12	6	18	37578.9	37578.9	0.03%					32	4	115.16	TCLSLT
ABB0318_6-12	12	6	18	38937.2	38937.2	0.04%					32	4	37.44	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%					24	3	19.75	TCLSLT
ABB0518_6-12	12	6	18	41016.8	41016.8	0.00%					32	4	52.49	TCLSLT

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Tabela VIII - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0618_6-12	12	6	18	37887.5	37887.5	0.03%					32	4	76.71	TCLSLT
ABB0718_6-12	12	6	18	42279.3	42279.3	-0.03%					40	5	138.86	TCLSLT
ABB0818_6-12	12	6	18	40322.7	40322.7	0.01%					24	3	167.87	TCLSLT
ABB0918_6-12	12	6	18	41907.0	41907.0	0.07%					24	3	113.73	TCLSLT
ABB006_6-25	25	6	6	25939.1	25939.1	0.11%					20	4	38.98	TCLSLT
ABB016_6-25	25	6	6	25654.1	25654.1	0.04%					20	4	31.60	TCLSLT
ABB026_6-25	25	6	6	26944.3	26944.3	0.00%					20	4	12.71	TCLSLT
ABB036_6-25	25	6	6	27219.0	27219.0	0.08%					25	5	57.64	TCLSLT
ABB046_6-25	25	6	6	28821.0	28821.0	0.02%					25	5	58.19	TCLSLT
ABB056_6-25	25	6	6	26517.4	26517.4	0.03%					15	3	16.81	TCLSLT
ABB066_6-25	25	6	6	25489.3	25489.3	0.04%					15	3	4.06	TCLSLT
ABB076_6-25	25	6	6	28154.3	28154.3	0.07%					15	3	9.06	TCLSLT
ABB086_6-25	25	6	6	26877.3	26877.3	0.02%					20	4	40.58	TCLSLT
ABB096_6-25	25	6	6	26598.0	26598.0	0.10%					15	3	16.08	TCLSLT
ABB0012_6-25	25	6	12	52861.4	52861.4	0.00%					24	4	80.50	TCLSLT
ABB0112_6-25	25	6	12	53197.2	53197.2	0.18%					24	4	126.99	TCLSLT
ABB0212_6-25	25	6	12	54298.6	54298.6	0.01%					30	5	76.27	TCLSLT
ABB0312_6-25	25	6	12	53183.5	53183.5	0.07%					24	4	166.16	TCLSLT
ABB0412_6-25	25	6	12	56466.6	56466.6	0.02%					18	3	123.11	TCLSLT
ABB0512_6-25	25	6	12	52142.6	52142.6	0.02%					30	5	82.27	TCLSLT
ABB0612_6-25	25	6	12	51221.9	51221.9	0.00%					24	4	21.00	TCLSLT
ABB0712_6-25	25	6	12	53135.9	53135.9	0.05%					24	4	85.09	TCLSLT
ABB0812_6-25	25	6	12	51563.6	51563.6	0.01%					24	4	46.81	TCLSLT
ABB0912_6-25	25	6	12	54000.6	54000.6	0.00%					24	4	61.89	TCLSLT
ABB0018_6-25	25	6	18	77138.6	77138.6	-0.02%					40	5	317.58	TCLSLT
ABB0118_6-25	25	6	18	80039.4	80039.4	0.03%					40	5	364.37	TCLSLT
ABB0218_6-25	25	6	18	82250.4	82250.4	0.02%					40	5	312.78	TCLSLT
ABB0318_6-25	25	6	18	80837.8	80837.8	0.01%					40	5	436.90	TCLSLT
ABB0418_6-25	25	6	18	85555.5	85555.5	0.02%					40	5	392.16	TCLSLT
ABB0518_6-25	25	6	18	81536.4	81536.4	-0.01%					40	5	290.52	TCLSLT
ABB0618_6-25	25	6	18	76578.9	76578.9	0.02%					32	4	56.40	TCLSLT
ABB0718_6-25	25	6	18	78318.0	78318.0	0.01%					40	5	297.64	TCLSLT
ABB0818_6-25	25	6	18	75624.3	75624.3	0.01%					32	4	156.33	TCLSLT
ABB0918_6-25	25	6	18	81840.7	81840.7	0.02%					40	5	222.37	TCLSLT
ABB006_6-50	50	6	6	50834.7	50834.7	0.02%					15	3	33.70	TCLSLT
ABB016_6-50	50	6	6	50941.2	50941.2	0.02%					25	5	61.80	TCLSLT
ABB026_6-50	50	6	6	52524.0	52524.0	0.00%					15	3	49.46	TCLSLT
ABB036_6-50	50	6	6	51937.3	51937.3	0.08%					20	4	35.19	TCLSLT
ABB046_6-50	50	6	6	54390.5	54390.5	0.02%					25	5	114.64	TCLSLT
ABB056_6-50	50	6	6	53099.3	53099.3	0.04%					15	3	38.23	TCLSLT
ABB066_6-50	50	6	6	52430.9	52430.9	-0.01%					20	4	57.24	TCLSLT
ABB076_6-50	50	6	6	54128.8	54128.8	0.00%					15	3	8.76	TCLSLT
ABB086_6-50	50	6	6	51234.6	51234.6	0.04%					20	4	47.89	TCLSLT
ABB096_6-50	50	6	6	50903.8	50903.8	0.04%					20	4	44.20	TCLSLT
ABB0012_6-50	50	6	12	102858.1	102858.1	0.05%					42	7	210.15	TCLSLT
ABB0112_6-50	50	6	12	101935.7	101935.7	0.00%					30	5	135.80	TCLSLT
ABB0212_6-50	50	6	12	105734.1	105734.1	-0.02%					42	7	297.16	TCLSLT
ABB0312_6-50	50	6	12	103009.1	103009.1	0.02%					36	6	140.08	TCLSLT
ABB0412_6-50	50	6	12	110359.1	110359.1	0.02%					36	6	265.18	TCLSLT
ABB0512_6-50	50	6	12	105929.5	105929.5	0.01%					24	4	82.09	TCLSLT
ABB0612_6-50	50	6	12	103028.1	103028.1	0.08%					24	4	201.40	TCLSLT
ABB0712_6-50	50	6	12	107885.0	107885.0	0.01%					24	4	118.19	TCLSLT
ABB0812_6-50	50	6	12	100298.5	100298.5	0.03%					24	4	102.09	TCLSLT
ABB0912_6-50	50	6	12	102791.2	102791.2	0.03%					24	4	79.00	TCLSLT
ABB0018_6-50	50	6	18	153530.4	153530.4	0.03%					32	4	323.80	TCLSLT
ABB0118_6-50	50	6	18	151577.1	151577.1	-0.01%					48	6	352.77	TCLSLT
ABB0218_6-50	50	6	18	155229.1	155229.1	0.00%					64	8	558.54	TCLSLT
ABB0318_6-50	50	6	18	154831.9	154831.9	0.00%					40	5	321.32	TCLSLT
ABB0418_6-50	50	6	18	165784.5	165784.5	-0.02%					56	7	610.88	TCLSLT
ABB0518_6-50	50	6	18	156176.2	156176.2	0.02%					40	5	386.58	TCLSLT
ABB0618_6-50	50	6	18	155484.2	155484.2	0.00%					40	5	458.32	TCLSLT
ABB0718_6-50	50	6	18	159477.3	159477.3	0.01%					40	5	226.71	TCLSLT
ABB0818_6-50	50	6	18	151722.2	151722.2	0.02%					56	7	467.63	TCLSLT
ABB0918_6-50	50	6	18	154655.6	154655.6	0.00%					40	5	304.09	TCLSLT

Tabela IX: Resultados por instância ($m/r/n$) - $HCG_{pd}FO_{din}$

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA006_2-6	6	2	6	13637.5	13637.5	1.06%					10	2	0.23	NCHSHT
NAA016_2-6	6	2	6	11168.2	11168.2	2.92%					15	3	0.45	NCHSHT
NAA026_2-6	6	2	6	14368.7	14368.7	0.64%					15	3	0.27	NCHSHT
NAA036_2-6	6	2	6	14675.0	14675.0	0.57%					15	3	0.28	NCHSHT
NAA046_2-6	6	2	6	15674.7	15674.7	1.83%					15	3	0.39	NCHSHT
NAA056_2-6	6	2	6	17033.5	17033.5	5.23%					10	2	0.18	NCHSHT
NAA066_2-6	6	2	6	16135.1	16135.1	5.01%					15	3	0.50	NCHSHT
NAA076_2-6	6	2	6	16170.5	16170.5	0.33%					15	3	0.32	NCHSHT
NAA086_2-6	6	2	6	12980.2	12980.2	2.63%					15	3	0.26	NCHSHT
NAA096_2-6	6	2	6	12810.1	12810.1	0.90%					20	4	0.32	NCHSHT
NAA0012_2-6	6	2	12	24112.6	24112.6	1.39%					29	5	1.14	NCHSHT
NAA0112_2-6	6	2	12	23135.5	23135.5	0.97%					41	7	1.98	NCHSHT
NAA0212_2-6	6	2	12	26283.1	26283.1	0.19%					23	4	0.73	NCHSHT
NAA0312_2-6	6	2	12	25850.0	25850.0	0.23%					58	10	2.22	NCHSHT
NAA0412_2-6	6	2	12	25955.1	25955.1	1.89%					63	11	6.35	NCHSHT
NAA0512_2-6	6	2	12	29968.6	29968.6	0.59%					52	9	2.39	NCHSHT
NAA0612_2-6	6	2	12	27272.0	27272.0	1.05%					29	5	1.64	NCHSHT
NAA0712_2-6	6	2	12	26455.5	26455.5	0.04%					40	7	1.65	NCHSHT
NAA0812_2-6	6	2	12	21779.2	21779.2	0.67%					28	5	0.80	NCHSHT
NAA0912_2-6	6	2	12	26541.9	26541.9	1.23%					34	6	1.87	NCHSHT
NAA0018_2-6	6	2	18	32551.3	32551.3	0.81%					52	7	5.03	NCHSHT
NAA0118_2-6	6	2	18	33135.8	33135.8	0.56%					52	7	5.35	NCHSHT
NAA0218_2-6	6	2	18	38995.1	38995.1	1.09%					46	6	2.36	NCHSHT
NAA0318_2-6	6	2	18	39138.5	39138.5	0.25%					90	12	5.77	NCHSHT
NAA0418_2-6	6	2	18	36591.2	36591.2	2.10%					60	8	8.36	NCHSHT
NAA0518_2-6	6	2	18	41655.7	41655.7	0.67%					90	12	6.96	NCHSHT
NAA0618_2-6	6	2	18	38072.9	38072.9	0.23%					30	4	2.37	NCHSHT
NAA0718_2-6	6	2	18	38378.4	38378.4	0.67%					54	7	3.99	NCHSHT
NAA0818_2-6	6	2	18	31394.6	31394.6	0.46%					30	4	1.20	NCHSHT
NAA0918_2-6	6	2	18	35469.1	35469.1	0.89%					54	7	3.25	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%					10	2	0.32	NCHSHT
NAA016_2-12	12	2	6	23669.7	23669.7	0.01%					25	5	0.88	NCHSHT
NAA026_2-12	12	2	6	25321.1	25321.1	2.35%					15	3	0.63	NCHSHT
NAA036_2-12	12	2	6	29204.2	29204.2	0.83%					15	3	0.74	NCHSHT
NAA046_2-12	12	2	6	24869.3	24869.3	0.29%					20	4	0.74	NCHSHT
NAA056_2-12	12	2	6	28598.2	28598.2	0.29%					15	3	0.72	NCHSHT
NAA066_2-12	12	2	6	25388.1	25388.1	2.06%					10	2	0.46	NCHSHT
NAA076_2-12	12	2	6	25225.7	25225.7	0.90%					20	4	0.93	NCHSHT
NAA086_2-12	12	2	6	22924.5	22924.5	0.17%					15	3	0.45	NCHSHT
NAA096_2-12	12	2	6	26778.7	26778.7	1.03%					25	5	1.28	NCHSHT
NAA0012_2-12	12	2	12	40464.4	40464.4	0.18%					23	4	1.50	NCHSHT
NAA0112_2-12	12	2	12	41317.7	41317.7	0.09%					34	6	2.14	NCHSHT
NAA0212_2-12	12	2	12	43333.6	43333.6	0.75%					69	12	11.16	NCHSHT
NAA0312_2-12	12	2	12	52602.3	52602.3	0.33%					63	11	9.56	NCHSHT
NAA0412_2-12	12	2	12	45047.8	45047.8	0.38%					46	8	2.64	NCHSHT
NAA0512_2-12	12	2	12	51947.9	51947.9	1.05%					34	6	9.51	NCHSHT
NAA0612_2-12	12	2	12	45587.7	45587.7	1.55%					57	10	8.02	NCHSHT
NAA0712_2-12	12	2	12	47088.0	47088.0	0.90%					23	4	2.95	NCHSHT
NAA0812_2-12	12	2	12	41687.2	41687.2	0.39%					45	8	3.66	NCHSHT
NAA0912_2-12	12	2	12	49689.8	49689.8	0.17%					79	14	20.33	NCHSHT
NAA0018_2-12	12	2	18	59747.8	59747.8	0.05%					74	10	9.71	NCHSHT
NAA0118_2-12	12	2	18	61618.9	61618.9	0.46%					46	6	15.03	NCHSHT
NAA0218_2-12	12	2	18	65084.0	65084.0	0.87%					60	8	12.72	NCHSHT
NAA0318_2-12	12	2	18	74888.5	74888.5	0.34%					52	7	14.88	NCHSHT
NAA0418_2-12	12	2	18	67552.0	67552.0	0.42%					44	6	7.78	NCHSHT
NAA0518_2-12	12	2	18	74028.7	74028.7	0.78%					46	6	14.78	NCHSHT
NAA0618_2-12	12	2	18	65095.8	65095.8	0.33%					60	8	16.11	NCHSHT
NAA0718_2-12	12	2	18	67357.6	67357.6	0.07%					38	5	2.45	NCHSHT
NAA0818_2-12	12	2	18	64111.1	64111.1	0.23%					52	7	9.36	NCHSHT
NAA0918_2-12	12	2	18	72361.4	72361.4	0.30%					76	10	23.16	NCHSHT
NAA006_2-25	25	2	6	47710.7	47710.7	0.13%					10	2	0.93	NCHSHT
NAA016_2-25	25	2	6	48870.2	48870.2	0.40%					10	2	0.89	NCHSHT
NAA026_2-25	25	2	6	50989.0	50989.0	0.42%					20	4	1.96	NCHSHT
NAA036_2-25	25	2	6	52946.6	52946.6	0.54%					10	2	1.03	NCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_2-25	25	2	6	53551.6	53551.6	0.03%					15	3	1.29	NCHSHT
NAA056_2-25	25	2	6	56772.1	56772.1	0.67%					15	3	2.02	NCHSHT
NAA066_2-25	25	2	6	46023.6	46023.6	0.16%					15	3	0.98	NCHSHT
NAA076_2-25	25	2	6	51433.8	51433.8	0.20%					15	3	2.28	NCHSHT
NAA086_2-25	25	2	6	53877.4	53877.4	0.05%					20	4	1.42	NCHSHT
NAA096_2-25	25	2	6	58995.8	58995.8	0.10%					10	2	1.13	NCHSHT
NAA0012_2-25	25	2	12	88565.5	88565.5	0.13%					46	8	14.77	NCHSHT
NAA0112_2-25	25	2	12	93805.4	93805.4	0.05%					51	9	13.85	NCHSHT
NAA0212_2-25	25	2	12	90560.6	90560.6	0.33%					51	9	15.87	NCHSHT
NAA0312_2-25	25	2	12	94486.3	94486.3	0.29%					35	6	21.41	NCHSHT
NAA0412_2-25	25	2	12	92865.7	92865.7	0.01%					46	8	5.80	NCHSHT
NAA0512_2-25	25	2	12	105819.3	105819.3	0.21%					58	10	37.59	NCHSHT
NAA0612_2-25	25	2	12	90056.4	90056.4	0.32%					23	4	4.35	NCHSHT
NAA0712_2-25	25	2	12	95902.4	95902.4	0.06%					34	6	7.06	NCHSHT
NAA0812_2-25	25	2	12	98045.7	98045.7	0.14%					46	8	11.17	NCHSHT
NAA0912_2-25	25	2	12	103361.8	103361.8	0.18%					64	11	29.23	NCHSHT
NAA0018_2-25	25	2	18	128947.4	128947.4	0.08%					84	11	69.63	NCHSHT
NAA0118_2-25	25	2	18	132779.7	132779.7	0.24%					52	7	23.91	NCHSHT
NAA0218_2-25	25	2	18	130123.5	130123.5	0.06%					52	7	37.06	NCHSHT
NAA0318_2-25	25	2	18	142250.1	142250.1	0.02%					52	7	43.57	NCHSHT
NAA0418_2-25	25	2	18	136753.2	136753.2	0.19%					68	9	55.64	NCHSHT
NAA0518_2-25	25	2	18	149061.2	149061.2	0.27%					30	4	51.28	NCHSHT
NAA0618_2-25	25	2	18	126973.3	126973.3	0.19%					38	5	35.49	NCHSHT
NAA0718_2-25	25	2	18	141072.0	141072.0	0.31%					38	5	59.89	NCHSHT
NAA0818_2-25	25	2	18	139357.1	139357.1	0.04%					46	6	33.36	NCHSHT
NAA0918_2-25	25	2	18	148104.2	148104.2	0.21%					60	8	48.36	NCHSHT
NAA006_2-50	50	2	6	94162.4	94162.4	0.17%					10	2	2.21	NCHSHT
NAA016_2-50	50	2	6	97938.2	97938.2	0.04%					15	3	1.29	NCHSHT
NAA026_2-50	50	2	6	94534.9	94534.9	0.11%					10	2	1.54	NCHSHT
NAA036_2-50	50	2	6	102700.3	102700.3	0.21%					10	2	1.48	NCHSHT
NAA046_2-50	50	2	6	106632.4	106632.4	0.10%					10	2	3.53	NCHSHT
NAA056_2-50	50	2	6	104507.6	104507.6	0.10%					20	4	5.88	NCHSHT
NAA066_2-50	50	2	6	94629.5	94629.5	0.21%					15	3	2.43	NCHSHT
NAA076_2-50	50	2	6	101554.2	101554.2	0.16%					10	2	4.44	NCHSHT
NAA086_2-50	50	2	6	99680.4	99680.4	0.10%					15	3	2.31	NCHSHT
NAA096_2-50	50	2	6	102925.7	102925.7	0.09%					15	3	1.88	NCHSHT
NAA0012_2-50	50	2	12	176397.6	176397.6	0.05%					40	7	15.84	NCHSHT
NAA0112_2-50	50	2	12	184166.9	184166.9	0.02%					40	7	18.08	NCHSHT
NAA0212_2-50	50	2	12	176292.3	176292.3	0.06%					51	9	36.18	NCHSHT
NAA0312_2-50	50	2	12	189790.4	189790.4	0.11%					57	10	48.74	NCHSHT
NAA0412_2-50	50	2	12	194840.3	194840.3	0.32%					40	7	71.99	NCHSHT
NAA0512_2-50	50	2	12	192742.7	192742.7	0.07%					46	8	46.97	NCHSHT
NAA0612_2-50	50	2	12	174136.6	174136.6	0.03%					51	9	24.31	NCHSHT
NAA0712_2-50	50	2	12	184105.7	184105.7	0.06%					57	10	55.33	NCHSHT
NAA0812_2-50	50	2	12	179155.2	179155.2	0.00%					57	10	19.28	NCHSHT
NAA0912_2-50	50	2	12	189851.4	189851.4	0.05%					46	8	46.88	NCHSHT
NAA0018_2-50	50	2	18	259279.7	259279.7	0.11%					30	4	35.70	NCHSHT
NAA0118_2-50	50	2	18	267650.1	267650.1	0.01%					44	6	22.78	NCHSHT
NAA0218_2-50	50	2	18	255649.2	255649.2	0.03%					60	8	70.03	NCHSHT
NAA0318_2-50	50	2	18	279034.2	279034.2	0.08%					52	7	51.60	NCHSHT
NAA0418_2-50	50	2	18	283367.5	283367.5	0.06%					46	6	122.43	NCHSHT
NAA0518_2-50	50	2	18	282748.0	282748.0	0.10%					60	8	65.30	NCHSHT
NAA0618_2-50	50	2	18	255891.1	255891.1	0.05%					46	6	42.48	NCHSHT
NAA0718_2-50	50	2	18	268761.8	268761.8	0.04%					66	9	93.90	NCHSHT
NAA0818_2-50	50	2	18	262925.0	262925.0	0.02%					74	10	101.06	NCHSHT
NAA0918_2-50	50	2	18	277516.8	277516.8	0.12%					60	8	147.11	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%					15	3	0.33	NCHSHT
NAA016_4-6	6	4	6	11188.0	11188.0	0.79%					20	4	1.22	NCHSHT
NAA026_4-6	6	4	6	11669.5	11669.5	0.36%					15	3	0.47	NCHSHT
NAA036_4-6	6	4	6	12249.2	12249.2	0.82%					15	3	0.47	NCHSHT
NAA046_4-6	6	4	6	9742.8	9742.8	0.00%					20	4	2.12	NCHSHT
NAA056_4-6	6	4	6	15068.9	15068.9	1.55%					15	3	0.64	NCHSHT
NAA066_4-6	6	4	6	12380.1	12380.1	5.98%					20	4	1.22	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%					20	4	0.46	NCHSHT
NAA086_4-6	6	4	6	9790.6	9790.6	1.15%					25	5	0.52	NCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_4-6	6	4	6	14361.2	14361.2	0.62%					15	3	0.40	NCHSHT
NAA0012_4-6	6	4	12	17339.3	17339.3	0.69%					51	9	2.66	NCHSHT
NAA0112_4-6	6	4	12	23603.3	23603.3	0.53%					57	10	7.91	NCHSHT
NAA0212_4-6	6	4	12	22019.8	22019.8	0.39%					29	5	2.14	NCHSHT
NAA0312_4-6	6	4	12	24289.6	24289.6	0.00%					52	9	2.41	NCHSHT
NAA0412_4-6	6	4	12	21795.6	21795.6	0.13%					51	9	5.50	NCHSHT
NAA0512_4-6	6	4	12	29342.9	29342.9	1.47%					41	7	2.62	NCHSHT
NAA0612_4-6	6	4	12	20568.7	20568.7	0.00%					57	10	3.76	NCHSHT
NAA0712_4-6	6	4	12	23670.0	23670.0	0.72%					34	6	3.57	NCHSHT
NAA0812_4-6	6	4	12	18941.1	18941.1	0.04%					52	9	2.81	NCHSHT
NAA0912_4-6	6	4	12	25547.5	25547.5	0.82%					51	9	2.88	NCHSHT
NAA0018_4-6	6	4	18	26700.5	26700.5	0.43%					60	8	8.94	NCHSHT
NAA0118_4-6	6	4	18	31900.3	31900.3	0.00%					62	8	15.97	NCHSHT
NAA0218_4-6	6	4	18	31673.4	31673.4	0.20%					82	11	9.70	NCHSHT
NAA0318_4-6	6	4	18	36878.6	36878.6	0.41%					38	5	3.92	NCHSHT
NAA0418_4-6	6	4	18	33478.9	33478.9	1.24%					60	8	16.35	NCHSHT
NAA0518_4-6	6	4	18	41315.5	41315.5	0.50%					60	8	14.55	NCHSHT
NAA0618_4-6	6	4	18	32217.7	32217.7	0.21%					38	5	6.98	NCHSHT
NAA0718_4-6	6	4	18	35366.2	35366.2	0.45%					66	9	11.06	NCHSHT
NAA0818_4-6	6	4	18	27227.8	27227.8	0.14%					38	5	4.80	NCHSHT
NAA0918_4-6	6	4	18	37451.7	37451.7	0.46%					60	8	7.10	NCHSHT
NAA006_4-12	12	4	6	19830.8	19830.8	0.48%					15	3	1.03	NCHSHT
NAA016_4-12	12	4	6	22891.4	22891.4	0.13%					20	4	4.80	NCHSHT
NAA026_4-12	12	4	6	18870.2	18870.2	2.23%					10	2	0.58	NCHSHT
NAA036_4-12	12	4	6	20245.6	20245.6	0.34%					20	4	1.60	NCHSHT
NAA046_4-12	12	4	6	23040.5	23040.5	1.99%					20	4	1.47	NCHSHT
NAA056_4-12	12	4	6	24252.3	24252.3	2.71%					15	3	1.44	NCHSHT
NAA066_4-12	12	4	6	20638.1	20638.1	0.34%					20	4	0.94	NCHSHT
NAA076_4-12	12	4	6	20751.0	20751.0	0.00%					20	4	6.86	NCHSHT
NAA086_4-12	12	4	6	22431.3	22431.3	0.45%					20	4	1.31	NCHSHT
NAA096_4-12	12	4	6	21777.1	21777.1	1.95%					15	3	2.35	NCHSHT
NAA0012_4-12	12	4	12	35726.6	35726.6	0.10%					23	4	11.36	NCHSHT
NAA0112_4-12	12	4	12	40524.8	40524.8	0.10%					75	13	33.16	NCHSHT
NAA0212_4-12	12	4	12	36837.1	36837.1	0.00%					58	10	9.18	NCHSHT
NAA0312_4-12	12	4	12	39958.0	39958.0	0.61%					57	10	24.31	NCHSHT
NAA0412_4-12	12	4	12	42062.4	42062.4	0.88%					46	8	18.59	NCHSHT
NAA0512_4-12	12	4	12	45132.9	45132.9	0.67%					74	13	53.58	NCHSHT
NAA0612_4-12	12	4	12	38728.3	38728.3	0.00%					57	10	9.23	NCHSHT
NAA0712_4-12	12	4	12	41503.8	41503.8	0.20%					40	7	15.83	NCHSHT
NAA0812_4-12	12	4	12	41246.7	41246.7	0.13%					45	8	2.61	NCHSHT
NAA0912_4-12	12	4	12	43931.0	43931.0	0.93%					69	12	53.08	NCHSHT
NAA0018_4-12	12	4	18	54015.7	54015.7	0.07%					60	8	20.82	NCHSHT
NAA0118_4-12	12	4	18	59407.1	59407.1	0.15%					52	7	31.58	NCHSHT
NAA0218_4-12	12	4	18	53412.1	53412.1	0.02%					38	5	5.08	NCHSHT
NAA0318_4-12	12	4	18	61049.9	61049.9	0.18%					60	8	44.85	NCHSHT
NAA0418_4-12	12	4	18	61752.6	61752.6	0.55%					38	5	33.71	NCHSHT
NAA0518_4-12	12	4	18	65795.2	65795.2	0.44%					38	5	17.54	NCHSHT
NAA0618_4-12	12	4	18	58660.5	58660.5	0.69%					52	7	10.96	NCHSHT
NAA0718_4-12	12	4	18	64187.1	64187.1	0.85%					90	12	102.33	NCHSHT
NAA0818_4-12	12	4	18	62537.7	62537.7	0.00%					82	11	12.24	NCHSHT
NAA0918_4-12	12	4	18	62953.0	62953.0	0.47%					82	11	79.37	NCHSHT
NAA006_4-25	25	4	6	37111.4	37111.4	0.28%					20	4	6.17	NCHSHT
NAA016_4-25	25	4	6	45208.0	45208.0	0.44%					20	4	3.56	NCHSHT
NAA026_4-25	25	4	6	42643.8	42643.8	0.66%					15	3	10.85	NCHSHT
NAA036_4-25	25	4	6	42254.8	42254.8	0.59%					15	3	6.98	NCHSHT
NAA046_4-25	25	4	6	43221.7	43221.7	0.92%					25	5	12.56	NCHSHT
NAA056_4-25	25	4	6	47118.7	47118.7	0.41%					25	5	12.75	NCHSHT
NAA066_4-25	25	4	6	37900.3	37900.3	0.57%					15	3	1.68	NCHSHT
NAA076_4-25	25	4	6	43011.8	43011.8	0.67%					10	2	6.53	NCHSHT
NAA086_4-25	25	4	6	39779.8	39779.8	0.65%					15	3	6.80	NCHSHT
NAA096_4-25	25	4	6	45624.0	45624.0	0.77%					20	4	14.49	NCHSHT
NAA0012_4-25	25	4	12	74667.0	74667.0	0.11%					52	9	41.30	NCHSHT
NAA0112_4-25	25	4	12	82570.6	82570.6	0.18%					58	10	73.25	NCHSHT
NAA0212_4-25	25	4	12	78220.0	78220.0	0.29%					46	8	104.36	NCHSHT
NAA0312_4-25	25	4	12	82815.2	82815.2	0.17%					63	11	46.28	NCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_4-25	25	4	12	83412.7	83412.7	0.23%					35	6	38.27	NCHSHT
NAA0512_4-25	25	4	12	86429.9	86429.9	0.38%					57	10	89.01	NCHSHT
NAA0612_4-25	25	4	12	73691.4	73691.4	0.46%					57	10	46.30	NCHSHT
NAA0712_4-25	25	4	12	83315.4	83315.4	0.10%					46	8	69.52	NCHSHT
NAA0812_4-25	25	4	12	77860.3	77860.3	0.00%					52	9	46.87	NCHSHT
NAA0912_4-25	25	4	12	84220.6	84220.6	0.14%					29	5	9.73	NCHSHT
NAA0018_4-25	25	4	18	108541.8	108541.8	-0.03%					90	12	78.47	NCHSHT
NAA0118_4-25	25	4	18	120671.1	120671.1	0.14%					60	8	115.91	NCHSHT
NAA0218_4-25	25	4	18	116997.3	116997.3	0.16%					60	8	139.14	NCHSHT
NAA0318_4-25	25	4	18	121186.7	121186.7	0.13%					76	10	73.62	NCHSHT
NAA0418_4-25	25	4	18	123716.8	123716.8	0.27%					82	11	85.31	NCHSHT
NAA0518_4-25	25	4	18	125222.4	125222.4	0.25%					90	12	104.67	NCHSHT
NAA0618_4-25	25	4	18	110322.7	110322.7	0.00%					52	7	31.65	NCHSHT
NAA0718_4-25	25	4	18	121934.4	121934.4	0.05%					82	11	93.88	NCHSHT
NAA0818_4-25	25	4	18	112332.2	112332.2	0.10%					38	5	36.31	NCHSHT
NAA0918_4-25	25	4	18	124105.0	124105.0	0.09%					74	10	40.35	NCHSHT
NAA006_4-50	50	4	6	80549.2	80549.2	0.04%					15	3	8.42	NCHSHT
NAA016_4-50	50	4	6	83543.6	83543.6	0.04%					15	3	7.56	NCHSHT
NAA026_4-50	50	4	6	85825.7	85825.7	0.19%					15	3	14.10	NCHSHT
NAA036_4-50	50	4	6	86451.4	86451.4	0.14%					15	3	11.36	NCHSHT
NAA046_4-50	50	4	6	92868.1	92868.1	0.50%					15	3	20.86	NCHSHT
NAA056_4-50	50	4	6	87646.6	87646.6	0.42%					20	4	25.79	NCHSHT
NAA066_4-50	50	4	6	78939.6	78939.6	0.11%					10	2	3.17	NCHSHT
NAA076_4-50	50	4	6	82497.3	82497.3	0.17%					15	3	12.51	NCHSHT
NAA086_4-50	50	4	6	82346.8	82346.8	0.18%					20	4	10.31	NCHSHT
NAA096_4-50	50	4	6	93653.1	93653.1	0.11%					10	2	2.13	NCHSHT
NAA0012_4-50	50	4	12	158388.9	158388.9	0.06%					68	12	104.30	NCHSHT
NAA0112_4-50	50	4	12	156432.1	156432.1	0.05%					57	10	71.77	NCHSHT
NAA0212_4-50	50	4	12	157662.8	157662.8	0.02%					58	10	92.83	NCHSHT
NAA0312_4-50	50	4	12	164991.6	164991.6	0.03%					74	13	46.52	NCHSHT
NAA0412_4-50	50	4	12	169558.8	169558.8	0.16%					46	8	94.76	NCHSHT
NAA0512_4-50	50	4	12	163837.1	163837.1	0.13%					40	7	71.30	NCHSHT
NAA0612_4-50	50	4	12	149609.3	149609.3	0.02%					40	7	22.74	NCHSHT
NAA0712_4-50	50	4	12	160462.7	160462.7	0.02%					57	10	96.87	NCHSHT
NAA0812_4-50	50	4	12	156125.0	156125.0	0.06%					45	8	41.01	NCHSHT
NAA0912_4-50	50	4	12	171596.5	171596.5	0.01%					45	8	47.77	NCHSHT
NAA0018_4-50	50	4	18	227028.7	227028.7	0.03%					68	9	107.30	NCHSHT
NAA0118_4-50	50	4	18	231336.9	231336.9	0.01%					52	7	55.43	NCHSHT
NAA0218_4-50	50	4	18	236361.7	236361.7	0.12%					82	11	196.22	NCHSHT
NAA0318_4-50	50	4	18	241959.7	241959.7	0.02%					44	6	56.43	NCHSHT
NAA0418_4-50	50	4	18	251654.3	251654.3	0.08%					82	11	190.59	NCHSHT
NAA0518_4-50	50	4	18	242807.8	242807.8	0.09%					38	5	68.40	NCHSHT
NAA0618_4-50	50	4	18	223270.4	223270.4	0.04%					46	6	55.14	NCHSHT
NAA0718_4-50	50	4	18	239542.4	239542.4	0.07%					66	9	163.92	NCHSHT
NAA0818_4-50	50	4	18	226962.1	226962.1	0.05%					66	9	51.58	NCHSHT
NAA0918_4-50	50	4	18	250521.9	250521.9	0.03%					60	8	104.58	NCHSHT
NAA006_6-6	6	6	6	9283.0	9283.0	2.34%					20	4	0.86	NCHSHT
NAA016_6-6	6	6	6	12121.1	12121.1	0.00%					20	4	1.48	NCHSHT
NAA026_6-6	6	6	6	11456.7	11456.7	2.57%					20	4	0.86	NCHSHT
NAA036_6-6	6	6	6	13784.8	13784.8	1.19%					20	4	0.86	NCHSHT
NAA046_6-6	6	6	6	13475.5	13475.5	0.92%					25	5	1.43	NCHSHT
NAA056_6-6	6	6	6	15886.6	15886.6	1.58%					15	3	0.83	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%					20	4	1.08	NCHSHT
NAA076_6-6	6	6	6	14199.2	14199.2	0.79%					20	4	1.47	NCHSHT
NAA086_6-6	6	6	6	13557.5	13557.5	0.78%					15	3	0.94	NCHSHT
NAA096_6-6	6	6	6	15332.1	15332.1	1.19%					30	6	2.94	NCHSHT
NAA0012_6-6	6	6	12	18903.7	18903.7	0.00%					80	14	8.44	NCHSHT
NAA0112_6-6	6	6	12	22727.4	22727.4	0.06%					52	9	13.70	NCHSHT
NAA0212_6-6	6	6	12	23012.1	23012.1	0.28%					58	10	4.70	NCHSHT
NAA0312_6-6	6	6	12	26206.2	26206.2	0.56%					57	10	4.55	NCHSHT
NAA0412_6-6	6	6	12	25545.7	25545.7	0.26%					69	12	6.87	NCHSHT
NAA0512_6-6	6	6	12	26982.7	26982.7	1.13%					63	11	7.57	NCHSHT
NAA0612_6-6	6	6	12	21826.2	21826.2	0.11%					57	10	10.03	NCHSHT
NAA0712_6-6	6	6	12	27277.8	27277.8	0.25%					46	8	5.24	NCHSHT
NAA0812_6-6	6	6	12	24796.9	24796.9	0.45%					69	12	8.82	NCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0912_6-6	6	6	12	27998.2	27998.2	0.62%					52	9	17.54	NCHSHT
NAA0018_6-6	6	6	18	28208.7	28208.7	0.69%					68	9	19.89	NCHSHT
NAA0118_6-6	6	6	18	34677.1	34677.1	0.03%					66	9	22.73	NCHSHT
NAA0218_6-6	6	6	18	31396.5	31396.5	0.06%					68	9	10.11	NCHSHT
NAA0318_6-6	6	6	18	36462.1	36462.1	0.64%					52	7	8.22	NCHSHT
NAA0418_6-6	6	6	18	37112.3	37112.3	0.29%					52	7	18.77	NCHSHT
NAA0518_6-6	6	6	18	41404.0	41404.0	0.68%					82	11	21.20	NCHSHT
NAA0618_6-6	6	6	18	32320.9	32320.9	0.23%					54	7	21.74	NCHSHT
NAA0718_6-6	6	6	18	40075.8	40075.8	0.65%					52	7	11.33	NCHSHT
NAA0818_6-6	6	6	18	39799.4	39799.4	0.79%					82	11	39.16	NCHSHT
NAA0918_6-6	6	6	18	42451.3	42451.3	0.00%					112	15	30.20	NCHSHT
NAA006_6-12	12	6	6	20347.1	20347.1	1.64%					20	4	4.79	NCHSHT
NAA016_6-12	12	6	6	20353.4	20353.4	0.68%					15	3	4.17	NCHSHT
NAA026_6-12	12	6	6	19411.8	19411.8	2.33%					20	4	6.36	NCHSHT
NAA036_6-12	12	6	6	20056.4	20056.4	0.32%					15	3	1.05	NCHSHT
NAA046_6-12	12	6	6	18769.1	18769.1	1.48%					15	3	2.69	NCHSHT
NAA056_6-12	12	6	6	20544.9	20544.9	3.21%					15	3	4.07	NCHSHT
NAA066_6-12	12	6	6	18060.0	18060.0	0.75%					15	3	1.08	NCHSHT
NAA076_6-12	12	6	6	23078.9	23078.9	0.00%					25	5	4.54	NCHSHT
NAA086_6-12	12	6	6	20372.4	20372.4	0.48%					20	4	3.09	NCHSHT
NAA096_6-12	12	6	6	23890.7	23890.7	1.40%					20	4	6.65	NCHSHT
NAA0012_6-12	12	6	12	37485.0	37485.0	0.62%					51	9	28.13	NCHSHT
NAA0112_6-12	12	6	12	39506.6	39506.6	0.54%					46	8	15.79	NCHSHT
NAA0212_6-12	12	6	12	36945.5	36945.5	0.33%					52	9	60.22	NCHSHT
NAA0312_6-12	12	6	12	39738.7	39738.7	0.13%					51	9	22.87	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%					40	7	10.86	NCHSHT
NAA0512_6-12	12	6	12	40969.4	40969.4	0.21%					63	11	28.09	NCHSHT
NAA0612_6-12	12	6	12	34353.5	34353.5	0.21%					40	7	5.12	NCHSHT
NAA0712_6-12	12	6	12	45685.6	45685.6	0.11%					86	15	107.65	NCHSHT
NAA0812_6-12	12	6	12	38205.2	38205.2	0.28%					52	9	27.91	NCHSHT
NAA0912_6-12	12	6	12	43347.2	43347.2	0.47%					86	15	44.07	NCHSHT
NAA0018_6-12	12	6	18	56233.7	56233.7	0.13%					68	9	42.73	NCHSHT
NAA0118_6-12	12	6	18	61018.9	61018.9	0.39%					52	7	24.54	NCHSHT
NAA0218_6-12	12	6	18	54722.3	54722.3	0.51%					76	10	43.62	NCHSHT
NAA0318_6-12	12	6	18	56743.5	56743.5	0.00%					76	10	30.34	NCHSHT
NAA0418_6-12	12	6	18	52272.1	52272.1	0.34%					38	5	22.23	NCHSHT
NAA0518_6-12	12	6	18	61738.3	61738.3	0.44%					60	8	24.98	NCHSHT
NAA0618_6-12	12	6	18	53951.9	53951.9	0.23%					82	11	16.77	NCHSHT
NAA0718_6-12	12	6	18	66496.5	66496.5	-0.19%					46	6	50.07	NCHSHT
NAA0818_6-12	12	6	18	56816.0	56816.0	0.56%					68	9	67.49	NCHSHT
NAA0918_6-12	12	6	18	64664.0	64664.0	0.14%					68	9	33.60	NCHSHT
NAA006_6-25	25	6	6	39339.9	39339.9	1.00%					15	3	29.52	NCHSHT
NAA016_6-25	25	6	6	39518.4	39518.4	0.26%					15	3	12.23	NCHSHT
NAA026_6-25	25	6	6	41292.5	41292.5	0.53%					20	4	11.82	NCHSHT
NAA036_6-25	25	6	6	40491.7	40491.7	0.44%					20	4	8.52	NCHSHT
NAA046_6-25	25	6	6	42809.5	42809.5	1.34%					15	3	32.03	NCHSHT
NAA056_6-25	25	6	6	40079.3	40079.3	0.44%					20	4	13.94	NCHSHT
NAA066_6-25	25	6	6	38473.3	38473.3	0.10%					25	5	7.90	NCHSHT
NAA076_6-25	25	6	6	42395.8	42395.8	0.18%					15	3	5.87	NCHSHT
NAA086_6-25	25	6	6	40291.1	40291.1	0.45%					15	3	8.16	NCHSHT
NAA096_6-25	25	6	6	41811.4	41811.4	0.23%					20	4	14.11	NCHSHT
NAA0012_6-25	25	6	12	76598.6	76598.6	0.57%					69	12	119.23	NCHSHT
NAA0112_6-25	25	6	12	78774.7	78774.7	0.27%					41	7	78.58	NCHSHT
NAA0212_6-25	25	6	12	79984.1	79984.1	0.45%					63	11	85.54	NCHSHT
NAA0312_6-25	25	6	12	77255.2	77255.2	-0.03%					87	15	156.32	NCHSHT
NAA0412_6-25	25	6	12	80625.4	80625.4	0.15%					81	14	157.13	NCHSHT
NAA0512_6-25	25	6	12	76236.2	76236.2	0.22%					52	9	40.54	NCHSHT
NAA0612_6-25	25	6	12	73826.1	73826.1	0.14%					52	9	66.40	NCHSHT
NAA0712_6-25	25	6	12	77779.8	77779.8	0.16%					46	8	25.96	NCHSHT
NAA0812_6-25	25	6	12	74573.0	74573.0	0.03%					46	8	43.87	NCHSHT
NAA0912_6-25	25	6	12	81964.1	81964.1	0.19%					80	14	146.52	NCHSHT
NAA0018_6-25	25	6	18	110929.1	110929.1	0.09%					68	9	126.08	NCHSHT
NAA0118_6-25	25	6	18	116993.9	116993.9	0.26%					114	15	217.21	NCHSHT
NAA0218_6-25	25	6	18	120100.5	120100.5	0.17%					46	6	110.79	NCHSHT
NAA0318_6-25	25	6	18	116119.2	116119.2	0.13%					82	11	199.13	NCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_6-25	25	6	18	120099.4	120099.4	0.17%					46	6	92.16	NCHSHT
NAA0518_6-25	25	6	18	117161.4	117161.4	0.12%					52	7	66.58	NCHSHT
NAA0618_6-25	25	6	18	108413.5	108413.5	0.16%					68	9	109.70	NCHSHT
NAA0718_6-25	25	6	18	114623.8	114623.8	0.15%					98	13	116.79	NCHSHT
NAA0818_6-25	25	6	18	108319.4	108319.4	0.05%					68	9	126.54	NCHSHT
NAA0918_6-25	25	6	18	121894.1	121894.1	0.11%					68	9	147.39	NCHSHT
NAA006_6-50	50	6	6	73986.3	73986.3	0.08%					15	3	20.04	NCHSHT
NAA016_6-50	50	6	6	76230.0	76230.0	0.27%					25	5	29.43	NCHSHT
NAA026_6-50	50	6	6	78941.0	78941.0	0.16%					25	5	30.45	NCHSHT
NAA036_6-50	50	6	6	77491.7	77491.7	0.01%					20	4	16.75	NCHSHT
NAA046_6-50	50	6	6	79804.8	79804.8	0.48%					25	5	68.20	NCHSHT
NAA056_6-50	50	6	6	80133.7	80133.7	0.31%					20	4	62.40	NCHSHT
NAA066_6-50	50	6	6	76971.3	76971.3	0.31%					15	3	34.50	NCHSHT
NAA076_6-50	50	6	6	80940.3	80940.3	0.13%					25	5	19.83	NCHSHT
NAA086_6-50	50	6	6	75696.5	75696.5	0.12%					20	4	18.65	NCHSHT
NAA096_6-50	50	6	6	76765.7	76765.7	0.11%					15	3	13.62	NCHSHT
NAA0012_6-50	50	6	12	144476.8	144476.8	0.08%					57	10	58.66	NCHSHT
NAA0112_6-50	50	6	12	147653.7	147653.7	0.14%					57	10	111.79	NCHSHT
NAA0212_6-50	50	6	12	152111.2	152111.2	0.13%					46	8	124.86	NCHSHT
NAA0312_6-50	50	6	12	150708.2	150708.2	0.02%					63	11	139.83	NCHSHT
NAA0412_6-50	50	6	12	157232.6	157232.6	0.08%					86	15	204.17	NCHSHT
NAA0512_6-50	50	6	12	153676.6	153676.6	0.05%					57	10	139.04	NCHSHT
NAA0612_6-50	50	6	12	145779.8	145779.8	0.06%					70	12	210.93	NCHSHT
NAA0712_6-50	50	6	12	155871.5	155871.5	0.04%					80	14	91.04	NCHSHT
NAA0812_6-50	50	6	12	142333.1	142333.1	0.05%					57	10	81.54	NCHSHT
NAA0912_6-50	50	6	12	149469.9	149469.9	0.08%					40	7	80.33	NCHSHT
NAA0018_6-50	50	6	18	214451.6	214451.6	0.06%					98	13	170.69	NCHSHT
NAA0118_6-50	50	6	18	216236.6	216236.6	0.03%					60	8	106.26	NCHSHT
NAA0218_6-50	50	6	18	221788.9	221788.9	0.01%					90	12	226.65	NCHSHT
NAA0318_6-50	50	6	18	224174.8	224174.8	-0.01%					74	10	159.81	NCHSHT
NAA0418_6-50	50	6	18	234040.1	234040.1	0.01%					68	9	191.52	NCHSHT
NAA0518_6-50	50	6	18	223518.2	223518.2	0.10%					60	8	160.81	NCHSHT
NAA0618_6-50	50	6	18	217210.8	217210.8	0.12%					60	8	197.43	NCHSHT
NAA0718_6-50	50	6	18	229033.9	229033.9	0.06%					68	9	148.37	NCHSHT
NAA0818_6-50	50	6	18	213080.2	213080.2	0.05%					90	12	165.78	NCHSHT
NAA0918_6-50	50	6	18	222608.4	222608.4	0.02%					66	9	128.08	NCHSHT
NAB006_2-6	6	2	6	14046.4	14046.4	0.13%					20	4	0.38	NCHSLT
NAB016_2-6	6	2	6	11210.0	11210.0	2.13%					20	4	0.52	NCHSLT
NAB026_2-6	6	2	6	14941.4	14941.4	2.40%					15	3	0.36	NCHSLT
NAB036_2-6	6	2	6	15128.8	15128.8	1.01%					20	4	0.45	NCHSLT
NAB046_2-6	6	2	6	16411.6	16411.6	0.00%					15	3	0.41	NCHSLT
NAB056_2-6	6	2	6	17185.9	17185.9	3.65%					10	2	0.26	NCHSLT
NAB066_2-6	6	2	6	16180.7	16180.7	1.80%					15	3	0.38	NCHSLT
NAB076_2-6	6	2	6	16589.2	16589.2	0.76%					25	5	0.63	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%					10	2	0.17	NCHSLT
NAB096_2-6	6	2	6	12883.1	12883.1	0.00%					20	4	0.37	NCHSLT
NAB0012_2-6	6	2	12	24378.5	24378.5	0.39%					63	11	2.43	NCHSLT
NAB0112_2-6	6	2	12	23453.5	23453.5	0.55%					46	8	2.13	NCHSLT
NAB0212_2-6	6	2	12	27427.4	27427.4	2.52%					52	9	2.01	NCHSLT
NAB0312_2-6	6	2	12	27407.0	27407.0	2.10%					51	9	2.26	NCHSLT
NAB0412_2-6	6	2	12	27990.9	27990.9	3.85%					69	12	6.82	NCHSLT
NAB0512_2-6	6	2	12	31035.8	31035.8	0.61%					52	9	2.54	NCHSLT
NAB0612_2-6	6	2	12	28271.1	28271.1	0.91%					57	10	3.05	NCHSLT
NAB0712_2-6	6	2	12	26945.5	26945.5	0.10%					40	7	1.79	NCHSLT
NAB0812_2-6	6	2	12	22169.0	22169.0	0.76%					80	14	2.18	NCHSLT
NAB0912_2-6	6	2	12	27019.5	27019.5	0.10%					58	10	2.66	NCHSLT
NAB0018_2-6	6	2	18	33512.9	33512.9	0.49%					74	10	8.07	NCHSLT
NAB0118_2-6	6	2	18	33508.4	33508.4	0.00%					98	13	5.40	NCHSLT
NAB0218_2-6	6	2	18	39702.2	39702.2	0.84%					52	7	2.93	NCHSLT
NAB0318_2-6	6	2	18	344207713.6	344207713.6	70.95%					62	8	7.30	NCHSLT
NAB0418_2-6	6	2	18	37491.6	37491.6	1.85%					54	7	7.87	NCHSLT
NAB0518_2-6	6	2	18	42416.7	42416.7	0.02%					120	16	8.84	NCHSLT
NAB0618_2-6	6	2	18	39192.2	39192.2	1.09%					74	10	6.02	NCHSLT
NAB0718_2-6	6	2	18	39028.3	39028.3	0.55%					52	7	3.55	NCHSLT
NAB0818_2-6	6	2	18	31738.2	31738.2	0.42%					52	7	2.22	NCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_2-6	6	2	18	36051.2	36051.2	0.03%					90	12	8.21	NCHSLT
NAB006_2-12	12	2	6	21943.7	21943.7	0.70%					15	3	0.64	NCHSLT
NAB016_2-12	12	2	6	24372.8	24372.8	0.26%					15	3	0.51	NCHSLT
NAB026_2-12	12	2	6	25628.9	25628.9	0.50%					45	9	2.11	NCHSLT
NAB036_2-12	12	2	6	30056.1	30056.1	2.47%					10	2	0.74	NCHSLT
NAB046_2-12	12	2	6	25222.2	25222.2	0.04%					10	2	0.40	NCHSLT
NAB056_2-12	12	2	6	30013.7	30013.7	3.21%					15	3	0.73	NCHSLT
NAB066_2-12	12	2	6	25555.1	25555.1	0.58%					10	2	0.41	NCHSLT
NAB076_2-12	12	2	6	25442.6	25442.6	0.00%					20	4	0.82	NCHSLT
NAB086_2-12	12	2	6	23303.5	23303.5	0.00%					10	2	0.28	NCHSLT
NAB096_2-12	12	2	6	27491.4	27491.4	0.92%					10	2	0.56	NCHSLT
NAB0012_2-12	12	2	12	41458.4	41458.4	0.79%					40	7	4.00	NCHSLT
NAB0112_2-12	12	2	12	41986.1	41986.1	0.91%					57	10	4.00	NCHSLT
NAB0212_2-12	12	2	12	44173.9	44173.9	0.42%					58	10	7.85	NCHSLT
NAB0312_2-12	12	2	12	53110.9	53110.9	0.21%					62	11	8.15	NCHSLT
NAB0412_2-12	12	2	12	45514.8	45514.8	0.94%					51	9	4.51	NCHSLT
NAB0512_2-12	12	2	12	52802.3	52802.3	1.18%					57	10	12.92	NCHSLT
NAB0612_2-12	12	2	12	45724.2	45724.2	0.00%					46	8	3.69	NCHSLT
NAB0712_2-12	12	2	12	48609.7	48609.7	2.19%					45	8	10.57	NCHSLT
NAB0812_2-12	12	2	12	41903.4	41903.4	0.09%					46	8	2.84	NCHSLT
NAB0912_2-12	12	2	12	51193.2	51193.2	0.89%					63	11	16.51	NCHSLT
NAB0018_2-12	12	2	18	61032.1	61032.1	0.37%					68	9	16.18	NCHSLT
NAB0118_2-12	12	2	18	62206.4	62206.4	0.42%					68	9	14.07	NCHSLT
NAB0218_2-12	12	2	18	65771.4	65771.4	0.57%					54	7	14.67	NCHSLT
NAB0318_2-12	12	2	18	75647.9	75647.9	0.10%					68	9	16.01	NCHSLT
NAB0418_2-12	12	2	18	67977.9	67977.9	0.24%					74	10	14.11	NCHSLT
NAB0518_2-12	12	2	18	74184.7	74184.7	0.04%					92	12	24.59	NCHSLT
NAB0618_2-12	12	2	18	66415.4	66415.4	0.74%					90	12	27.78	NCHSLT
NAB0718_2-12	12	2	18	68101.5	68101.5	0.46%					60	8	6.42	NCHSLT
NAB0818_2-12	12	2	18	65058.7	65058.7	0.35%					46	6	20.33	NCHSLT
NAB0918_2-12	12	2	18	73333.1	73333.1	0.37%					54	7	15.27	NCHSLT
NAB006_2-25	25	2	6	48601.6	48601.6	0.47%					10	2	1.16	NCHSLT
NAB016_2-25	25	2	6	49604.6	49604.6	0.81%					10	2	0.77	NCHSLT
NAB026_2-25	25	2	6	52678.3	52678.3	1.18%					15	3	2.05	NCHSLT
NAB036_2-25	25	2	6	53887.5	53887.5	0.37%					15	3	1.91	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%					15	3	2.11	NCHSLT
NAB056_2-25	25	2	6	57534.0	57534.0	0.21%					10	2	0.78	NCHSLT
NAB066_2-25	25	2	6	47199.6	47199.6	1.41%					10	2	0.56	NCHSLT
NAB076_2-25	25	2	6	52577.9	52577.9	0.70%					15	3	1.82	NCHSLT
NAB086_2-25	25	2	6	55594.2	55594.2	1.07%					15	3	1.66	NCHSLT
NAB096_2-25	25	2	6	60457.1	60457.1	0.07%					15	3	1.44	NCHSLT
NAB0012_2-25	25	2	12	89332.8	89332.8	0.03%					45	8	16.07	NCHSLT
NAB0112_2-25	25	2	12	94916.4	94916.4	0.11%					57	10	15.98	NCHSLT
NAB0212_2-25	25	2	12	92260.4	92260.4	0.76%					69	12	55.51	NCHSLT
NAB0312_2-25	25	2	12	95519.7	95519.7	0.24%					86	15	62.74	NCHSLT
NAB0412_2-25	25	2	12	94777.7	94777.7	0.40%					46	8	16.38	NCHSLT
NAB0512_2-25	25	2	12	107715.2	107715.2	0.38%					52	9	58.43	NCHSLT
NAB0612_2-25	25	2	12	91042.2	91042.2	0.37%					69	12	20.07	NCHSLT
NAB0712_2-25	25	2	12	96776.2	96776.2	0.27%					40	7	8.91	NCHSLT
NAB0812_2-25	25	2	12	99016.9	99016.9	0.04%					52	9	13.66	NCHSLT
NAB0912_2-25	25	2	12	104661.3	104661.3	0.22%					47	8	19.09	NCHSLT
NAB0018_2-25	25	2	18	129921.7	129921.7	0.17%					52	7	68.03	NCHSLT
NAB0118_2-25	25	2	18	133569.4	133569.4	0.13%					68	9	30.86	NCHSLT
NAB0218_2-25	25	2	18	131685.6	131685.6	0.12%					46	6	63.88	NCHSLT
NAB0318_2-25	25	2	18	143307.1	143307.1	0.01%					90	12	65.72	NCHSLT
NAB0418_2-25	25	2	18	138287.6	138287.6	0.15%					90	12	113.23	NCHSLT
NAB0518_2-25	25	2	18	150934.8	150934.8	0.71%					60	8	126.47	NCHSLT
NAB0618_2-25	25	2	18	128078.4	128078.4	0.26%					60	8	40.19	NCHSLT
NAB0718_2-25	25	2	18	142554.9	142554.9	0.13%					74	10	126.52	NCHSLT
NAB0818_2-25	25	2	18	140273.7	140273.7	0.09%					60	8	54.57	NCHSLT
NAB0918_2-25	25	2	18	150198.8	150198.8	0.31%					54	7	53.43	NCHSLT
NAB006_2-50	50	2	6	95563.3	95563.3	0.34%					15	3	3.47	NCHSLT
NAB016_2-50	50	2	6	99083.7	99083.7	0.16%					15	3	1.98	NCHSLT
NAB026_2-50	50	2	6	96167.6	96167.6	0.07%					15	3	2.13	NCHSLT
NAB036_2-50	50	2	6	104091.6	104091.6	0.06%					15	3	3.59	NCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_2-50	50	2	6	109618.6	109618.6	0.40%					15	3	8.55	NCHSLT
NAB056_2-50	50	2	6	107872.8	107872.8	0.69%					10	2	4.71	NCHSLT
NAB066_2-50	50	2	6	96719.0	96719.0	0.34%					20	4	5.55	NCHSLT
NAB076_2-50	50	2	6	103507.3	103507.3	0.18%					20	4	9.52	NCHSLT
NAB086_2-50	50	2	6	101366.9	101366.9	0.34%					10	2	3.77	NCHSLT
NAB096_2-50	50	2	6	105188.9	105188.9	0.23%					15	3	2.94	NCHSLT
NAB0012_2-50	50	2	12	178068.6	178068.6	0.08%					64	11	51.48	NCHSLT
NAB0112_2-50	50	2	12	185409.2	185409.2	0.03%					51	9	26.92	NCHSLT
NAB0212_2-50	50	2	12	178460.9	178460.9	0.13%					40	7	39.93	NCHSLT
NAB0312_2-50	50	2	12	190974.0	190974.0	0.06%					74	13	69.69	NCHSLT
NAB0412_2-50	50	2	12	197137.9	197137.9	0.00%					69	12	138.26	NCHSLT
NAB0512_2-50	50	2	12	195446.0	195446.0	0.35%					23	4	50.62	NCHSLT
NAB0612_2-50	50	2	12	175767.3	175767.3	0.13%					46	8	26.60	NCHSLT
NAB0712_2-50	50	2	12	187020.8	187020.8	0.14%					51	9	107.14	NCHSLT
NAB0812_2-50	50	2	12	181151.0	181151.0	0.13%					29	5	37.39	NCHSLT
NAB0912_2-50	50	2	12	192336.3	192336.3	0.14%					80	14	117.27	NCHSLT
NAB0018_2-50	50	2	18	260342.4	260342.4	0.01%					38	5	31.49	NCHSLT
NAB0118_2-50	50	2	18	269116.3	269116.3	0.11%					44	6	66.49	NCHSLT
NAB0218_2-50	50	2	18	258157.0	258157.0	0.06%					136	18	148.42	NCHSLT
NAB0318_2-50	50	2	18	280596.5	280596.5	0.07%					74	10	85.49	NCHSLT
NAB0418_2-50	50	2	18	287963.2	287963.2	0.21%					46	6	201.31	NCHSLT
NAB0518_2-50	50	2	18	284823.9	284823.9	0.02%					60	8	71.90	NCHSLT
NAB0618_2-50	50	2	18	257818.8	257818.8	0.13%					60	8	93.32	NCHSLT
NAB0718_2-50	50	2	18	271229.3	271229.3	0.02%					84	11	226.97	NCHSLT
NAB0818_2-50	50	2	18	264188.1	264188.1	0.05%					46	6	44.09	NCHSLT
NAB0918_2-50	50	2	18	280111.3	280111.3	0.03%					114	15	191.90	NCHSLT
NAB006_4-6	6	4	6	9716.8	9716.8	0.59%					15	3	0.43	NCHSLT
NAB016_4-6	6	4	6	12378.6	12378.6	2.74%					20	4	1.34	NCHSLT
NAB026_4-6	6	4	6	12071.6	12071.6	0.33%					15	3	0.58	NCHSLT
NAB036_4-6	6	4	6	12636.0	12636.0	0.18%					25	5	0.72	NCHSLT
NAB046_4-6	6	4	6	11032.7	11032.7	2.24%					20	4	1.72	NCHSLT
NAB056_4-6	6	4	6	15848.3	15848.3	2.95%					15	3	0.61	NCHSLT
NAB066_4-6	6	4	6	12847.7	12847.7	3.65%					20	4	0.78	NCHSLT
NAB076_4-6	6	4	6	14336.7	14336.7	2.75%					15	3	0.61	NCHSLT
NAB086_4-6	6	4	6	10054.3	10054.3	1.07%					20	4	0.47	NCHSLT
NAB096_4-6	6	4	6	14764.9	14764.9	0.36%					25	5	0.63	NCHSLT
NAB0012_4-6	6	4	12	17903.1	17903.1	0.13%					46	8	3.16	NCHSLT
NAB0112_4-6	6	4	12	25272.2	25272.2	0.69%					40	7	6.90	NCHSLT
NAB0212_4-6	6	4	12	23186.9	23186.9	0.07%					80	14	8.47	NCHSLT
NAB0312_4-6	6	4	12	25662.1	25662.1	0.22%					57	10	2.55	NCHSLT
NAB0412_4-6	6	4	12	23686.7	23686.7	0.66%					58	10	10.13	NCHSLT
NAB0512_4-6	6	4	12	30376.7	30376.7	0.36%					41	7	2.56	NCHSLT
NAB0612_4-6	6	4	12	21983.6	21983.6	0.27%					62	11	5.23	NCHSLT
NAB0712_4-6	6	4	12	24807.2	24807.2	0.95%					45	8	3.74	NCHSLT
NAB0812_4-6	6	4	12	21053.3	21053.3	0.01%					46	8	4.27	NCHSLT
NAB0912_4-6	6	4	12	26058.4	26058.4	0.57%					40	7	1.96	NCHSLT
NAB0018_4-6	6	4	18	27503.3	27503.3	0.03%					74	10	5.85	NCHSLT
NAB0118_4-6	6	4	18	33366.4	33366.4	0.27%					52	7	7.50	NCHSLT
NAB0218_4-6	6	4	18	33426.2	33426.2	0.33%					52	7	15.95	NCHSLT
NAB0318_4-6	6	4	18	38943.3	38943.3	0.00%					68	9	8.79	NCHSLT
NAB0418_4-6	6	4	18	35199.6	35199.6	0.36%					76	10	20.40	NCHSLT
NAB0518_4-6	6	4	18	43371.3	43371.3	0.78%					38	5	6.32	NCHSLT
NAB0618_4-6	6	4	18	34275.6	34275.6	0.41%					68	9	9.37	NCHSLT
NAB0718_4-6	6	4	18	37273.0	37273.0	0.03%					52	7	16.24	NCHSLT
NAB0818_4-6	6	4	18	28320.6	28320.6	0.97%					60	8	12.84	NCHSLT
NAB0918_4-6	6	4	18	38377.8	38377.8	0.60%					60	8	7.94	NCHSLT
NAB006_4-12	12	4	6	20508.3	20508.3	0.33%					15	3	1.29	NCHSLT
NAB016_4-12	12	4	6	24009.5	24009.5	1.36%					25	5	6.17	NCHSLT
NAB026_4-12	12	4	6	19250.9	19250.9	2.38%					10	2	0.70	NCHSLT
NAB036_4-12	12	4	6	21159.0	21159.0	2.02%					15	3	1.06	NCHSLT
NAB046_4-12	12	4	6	23147.5	23147.5	0.58%					15	3	1.66	NCHSLT
NAB056_4-12	12	4	6	24550.2	24550.2	1.47%					20	4	2.58	NCHSLT
NAB066_4-12	12	4	6	21880.9	21880.9	2.65%					20	4	1.64	NCHSLT
NAB076_4-12	12	4	6	21766.0	21766.0	0.75%					15	3	2.38	NCHSLT
NAB086_4-12	12	4	6	23042.0	23042.0	1.62%					15	3	1.48	NCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB096_4-12	12	4	6	22911.6	22911.6	2.11%					10	2	1.37	NCHSLT
NAB0012_4-12	12	4	12	36613.1	36613.1	0.06%					63	11	19.91	NCHSLT
NAB0112_4-12	12	4	12	42087.0	42087.0	0.56%					81	14	95.79	NCHSLT
NAB0212_4-12	12	4	12	37532.1	37532.1	0.28%					45	8	13.73	NCHSLT
NAB0312_4-12	12	4	12	41214.0	41214.0	0.60%					52	9	17.31	NCHSLT
NAB0412_4-12	12	4	12	42558.1	42558.1	0.13%					69	12	18.42	NCHSLT
NAB0512_4-12	12	4	12	47007.4	47007.4	1.68%					63	11	72.43	NCHSLT
NAB0612_4-12	12	4	12	40427.8	40427.8	0.78%					97	17	25.49	NCHSLT
NAB0712_4-12	12	4	12	43106.4	43106.4	0.30%					81	14	68.79	NCHSLT
NAB0812_4-12	12	4	12	41951.2	41951.2	0.23%					40	7	5.13	NCHSLT
NAB0912_4-12	12	4	12	45584.8	45584.8	0.30%					86	15	103.05	NCHSLT
NAB0018_4-12	12	4	18	54817.6	54817.6	0.25%					98	13	73.76	NCHSLT
NAB0118_4-12	12	4	18	61181.2	61181.2	0.36%					84	11	109.57	NCHSLT
NAB0218_4-12	12	4	18	54038.1	54038.1	0.30%					60	8	17.72	NCHSLT
NAB0318_4-12	12	4	18	62626.7	62626.7	-0.18%					54	7	29.76	NCHSLT
NAB0418_4-12	12	4	18	63505.9	63505.9	0.33%					52	7	81.19	NCHSLT
NAB0518_4-12	12	4	18	67587.6	67587.6	0.48%					46	6	34.43	NCHSLT
NAB0618_4-12	12	4	18	60079.8	60079.8	0.49%					60	8	27.54	NCHSLT
NAB0718_4-12	12	4	18	66238.2	66238.2	-0.02%					128	17	225.56	NCHSLT
NAB0818_4-12	12	4	18	63688.8	63688.8	0.32%					68	9	41.88	NCHSLT
NAB0918_4-12	12	4	18	64418.0	64418.0	0.21%					98	13	122.45	NCHSLT
NAB006_4-25	25	4	6	38044.4	38044.4	0.72%					15	3	7.48	NCHSLT
NAB016_4-25	25	4	6	46551.7	46551.7	1.02%					20	4	9.72	NCHSLT
NAB026_4-25	25	4	6	43791.7	43791.7	0.43%					20	4	17.75	NCHSLT
NAB036_4-25	25	4	6	43394.2	43394.2	0.25%					20	4	9.97	NCHSLT
NAB046_4-25	25	4	6	44517.6	44517.6	0.58%					20	4	21.46	NCHSLT
NAB056_4-25	25	4	6	48477.4	48477.4	0.84%					20	4	14.03	NCHSLT
NAB066_4-25	25	4	6	38638.9	38638.9	0.51%					20	4	2.66	NCHSLT
NAB076_4-25	25	4	6	44068.5	44068.5	0.44%					15	3	20.19	NCHSLT
NAB086_4-25	25	4	6	40706.7	40706.7	0.68%					30	6	16.39	NCHSLT
NAB096_4-25	25	4	6	46476.8	46476.8	0.33%					35	7	13.14	NCHSLT
NAB0012_4-25	25	4	12	75677.3	75677.3	0.18%					52	9	76.71	NCHSLT
NAB0112_4-25	25	4	12	84064.1	84064.1	0.27%					63	11	151.71	NCHSLT
NAB0212_4-25	25	4	12	80115.6	80115.6	0.10%					92	16	241.76	NCHSLT
NAB0312_4-25	25	4	12	84107.8	84107.8	0.34%					86	15	115.21	NCHSLT
NAB0412_4-25	25	4	12	84860.6	84860.6	0.33%					35	6	59.97	NCHSLT
NAB0512_4-25	25	4	12	87771.5	87771.5	0.36%					76	13	134.71	NCHSLT
NAB0612_4-25	25	4	12	74769.9	74769.9	0.46%					57	10	67.23	NCHSLT
NAB0712_4-25	25	4	12	84641.1	84641.1	0.33%					46	8	93.35	NCHSLT
NAB0812_4-25	25	4	12	79192.0	79192.0	0.22%					52	9	91.38	NCHSLT
NAB0912_4-25	25	4	12	84977.0	84977.0	0.04%					85	15	43.81	NCHSLT
NAB0018_4-25	25	4	18	109926.4	109926.4	0.11%					76	10	151.10	NCHSLT
NAB0118_4-25	25	4	18	122511.8	122511.8	0.21%					68	9	189.98	NCHSLT
NAB0218_4-25	25	4	18	118918.1	118918.1	0.28%					76	10	339.07	NCHSLT
NAB0318_4-25	25	4	18	122717.8	122717.8	0.15%					82	11	154.62	NCHSLT
NAB0418_4-25	25	4	18	125408.9	125408.9	0.37%					60	8	108.39	NCHSLT
NAB0518_4-25	25	4	18	126990.7	126990.7	-0.12%					52	7	76.95	NCHSLT
NAB0618_4-25	25	4	18	111089.2	111089.2	0.05%					60	8	53.59	NCHSLT
NAB0718_4-25	25	4	18	123110.5	123110.5	0.07%					76	10	108.01	NCHSLT
NAB0818_4-25	25	4	18	113449.4	113449.4	0.01%					74	10	171.99	NCHSLT
NAB0918_4-25	25	4	18	125202.5	125202.5	0.18%					46	6	38.48	NCHSLT
NAB006_4-50	50	4	6	81913.5	81913.5	0.29%					20	4	23.03	NCHSLT
NAB016_4-50	50	4	6	85191.0	85191.0	0.28%					15	3	9.84	NCHSLT
NAB026_4-50	50	4	6	87217.3	87217.3	0.14%					15	3	22.03	NCHSLT
NAB036_4-50	50	4	6	88141.7	88141.7	0.03%					20	4	8.15	NCHSLT
NAB046_4-50	50	4	6	94979.5	94979.5	0.46%					15	3	19.46	NCHSLT
NAB056_4-50	50	4	6	89738.6	89738.6	0.31%					15	3	26.05	NCHSLT
NAB066_4-50	50	4	6	80046.0	80046.0	0.17%					15	3	11.78	NCHSLT
NAB076_4-50	50	4	6	84150.0	84150.0	0.44%					20	4	49.74	NCHSLT
NAB086_4-50	50	4	6	84256.7	84256.7	0.40%					20	4	24.76	NCHSLT
NAB096_4-50	50	4	6	94735.3	94735.3	0.16%					15	3	20.01	NCHSLT
NAB0012_4-50	50	4	12	160246.2	160246.2	0.07%					63	11	156.15	NCHSLT
NAB0112_4-50	50	4	12	157797.2	157797.2	0.04%					69	12	138.98	NCHSLT
NAB0212_4-50	50	4	12	159455.5	159455.5	0.19%					46	8	116.14	NCHSLT
NAB0312_4-50	50	4	12	166803.0	166803.0	0.08%					46	8	97.87	NCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_4-50	50	4	12	171980.4	171980.4	0.11%					35	6	110.57	NCHSLT
NAB0512_4-50	50	4	12	165675.5	165675.5	0.14%					58	10	155.50	NCHSLT
NAB0612_4-50	50	4	12	150650.5	150650.5	0.08%					46	8	70.44	NCHSLT
NAB0712_4-50	50	4	12	163014.0	163014.0	0.26%					46	8	129.70	NCHSLT
NAB0812_4-50	50	4	12	157950.1	157950.1	0.23%					40	7	109.99	NCHSLT
NAB0912_4-50	50	4	12	172853.0	172853.0	0.09%					63	11	102.02	NCHSLT
NAB0018_4-50	50	4	18	228801.6	228801.6	0.07%					60	8	151.81	NCHSLT
NAB0118_4-50	50	4	18	233158.2	233158.2	0.02%					84	11	277.90	NCHSLT
NAB0218_4-50	50	4	18	238890.0	238890.0	0.03%					46	6	178.01	NCHSLT
NAB0318_4-50	50	4	18	244071.9	244071.9	0.16%					52	7	122.03	NCHSLT
NAB0418_4-50	50	4	18	254411.7	254411.7	0.15%					74	10	298.31	NCHSLT
NAB0518_4-50	50	4	18	244849.8	244849.8	0.00%					68	9	170.32	NCHSLT
NAB0618_4-50	50	4	18	224239.6	224239.6	0.02%					60	8	71.81	NCHSLT
NAB0718_4-50	50	4	18	241722.4	241722.4	0.05%					54	7	207.48	NCHSLT
NAB0818_4-50	50	4	18	228618.8	228618.8	0.06%					68	9	179.22	NCHSLT
NAB0918_4-50	50	4	18	252098.5	252098.5	0.02%					112	15	185.37	NCHSLT
NAB006_6-6	6	6	6	9940.2	9940.2	1.80%					25	5	1.35	NCHSLT
NAB016_6-6	6	6	6	13748.0	13748.0	2.11%					25	5	1.89	NCHSLT
NAB026_6-6	6	6	6	12527.6	12527.6	1.71%					15	3	1.08	NCHSLT
NAB036_6-6	6	6	6	14093.7	14093.7	0.57%					25	5	2.46	NCHSLT
NAB046_6-6	6	6	6	14299.3	14299.3	1.37%					30	6	1.35	NCHSLT
NAB056_6-6	6	6	6	17483.0	17483.0	2.64%					20	4	2.26	NCHSLT
NAB066_6-6	6	6	6	11933.9	11933.9	1.34%					15	3	0.52	NCHSLT
NAB076_6-6	6	6	6	15813.3	15813.3	1.55%					20	4	1.53	NCHSLT
NAB086_6-6	6	6	6	15446.1	15446.1	2.85%					20	4	2.41	NCHSLT
NAB096_6-6	6	6	6	16487.4	16487.4	0.02%					20	4	2.10	NCHSLT
NAB0012_6-6	6	6	12	20261.1	20261.1	0.40%					35	6	4.07	NCHSLT
NAB0112_6-6	6	6	12	25398.1	25398.1	0.50%					46	8	8.47	NCHSLT
NAB0212_6-6	6	6	12	24415.3	24415.3	0.24%					40	7	3.08	NCHSLT
NAB0312_6-6	6	6	12	27526.7	27526.7	0.14%					46	8	6.17	NCHSLT
NAB0412_6-6	6	6	12	27318.6	27318.6	0.03%					75	13	16.97	NCHSLT
NAB0512_6-6	6	6	12	29769.7	29769.7	0.70%					57	10	10.25	NCHSLT
NAB0612_6-6	6	6	12	23799.3	23799.3	0.01%					63	11	5.83	NCHSLT
NAB0712_6-6	6	6	12	29095.4	29095.4	0.03%					29	5	5.92	NCHSLT
NAB0812_6-6	6	6	12	27456.6	27456.6	0.57%					58	10	20.91	NCHSLT
NAB0912_6-6	6	6	12	30504.6	30504.6	0.09%					86	15	26.22	NCHSLT
NAB0018_6-6	6	6	18	29786.5	29786.5	0.19%					46	6	10.70	NCHSLT
NAB0118_6-6	6	6	18	1939733767.4	1939733774.0	94.84%					54	7	76.36	NCHSLT
NAB0218_6-6	6	6	18	33158.2	33158.2	0.36%					74	10	12.79	NCHSLT
NAB0318_6-6	6	6	18	39196.1	39196.1	0.75%					52	7	16.52	NCHSLT
NAB0418_6-6	6	6	18	39833.0	39833.0	0.29%					46	6	35.64	NCHSLT
NAB0518_6-6	6	6	18	45068.5	45068.5	0.56%					84	11	39.93	NCHSLT
NAB0618_6-6	6	6	18	34318.0	34318.0	0.30%					92	12	23.99	NCHSLT
NAB0718_6-6	6	6	18	42837.5	42837.5	0.20%					60	8	25.30	NCHSLT
NAB0818_6-6	6	6	18	43709.7	43709.7	0.16%					76	10	35.34	NCHSLT
NAB0918_6-6	6	6	18	46997.8	46997.8	0.00%					100	13	81.90	NCHSLT
NAB006_6-12	12	6	6	20875.5	20875.5	1.04%					15	3	11.57	NCHSLT
NAB016_6-12	12	6	6	21398.7	21398.7	1.03%					25	5	20.28	NCHSLT
NAB026_6-12	12	6	6	20045.8	20045.8	0.44%					40	8	16.45	NCHSLT
NAB036_6-12	12	6	6	20862.8	20862.8	0.12%					25	5	3.76	NCHSLT
NAB046_6-12	12	6	6	19225.0	19225.0	0.88%					15	3	4.84	NCHSLT
NAB056_6-12	12	6	6	21322.9	21322.9	3.74%					20	4	2.58	NCHSLT
NAB066_6-12	12	6	6	18640.6	18640.6	0.62%					15	3	1.08	NCHSLT
NAB076_6-12	12	6	6	24522.2	24522.2	0.86%					25	5	11.47	NCHSLT
NAB086_6-12	12	6	6	21669.7	21669.7	2.71%					20	4	14.00	NCHSLT
NAB096_6-12	12	6	6	24677.5	24677.5	1.07%					15	3	14.20	NCHSLT
NAB0012_6-12	12	6	12	38421.5	38421.5	0.16%					52	9	14.65	NCHSLT
NAB0112_6-12	12	6	12	40739.0	40739.0	0.10%					86	15	41.16	NCHSLT
NAB0212_6-12	12	6	12	39242.4	39242.4	1.54%					35	6	55.03	NCHSLT
NAB0312_6-12	12	6	12	41286.9	41286.9	0.55%					34	6	19.75	NCHSLT
NAB0412_6-12	12	6	12	36733.6	36733.6	0.33%					69	12	59.26	NCHSLT
NAB0512_6-12	12	6	12	42754.5	42754.5	0.41%					52	9	22.82	NCHSLT
NAB0612_6-12	12	6	12	35295.7	35295.7	0.56%					63	11	13.00	NCHSLT
NAB0712_6-12	12	6	12	48434.8	48434.8	0.21%					110	19	163.82	NCHSLT
NAB0812_6-12	12	6	12	40425.2	40425.2	0.42%					63	11	72.58	NCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_6-12	12	6	12	44936.7	44936.7	0.62%					52	9	15.37	NCHSLT
NAB0018_6-12	12	6	18	57531.5	57531.5	-0.05%					52	7	40.90	NCHSLT
NAB0118_6-12	12	6	18	62939.5	62939.5	0.42%					76	10	62.29	NCHSLT
NAB0218_6-12	12	6	18	57015.0	57015.0	0.36%					60	8	81.00	NCHSLT
NAB0318_6-12	12	6	18	58722.6	58722.6	-0.03%					90	12	45.82	NCHSLT
NAB0418_6-12	12	6	18	53589.4	53589.4	0.46%					46	6	26.56	NCHSLT
NAB0518_6-12	12	6	18	64004.7	64004.7	0.30%					60	8	63.45	NCHSLT
NAB0618_6-12	12	6	18	55354.8	55354.8	0.47%					82	11	72.45	NCHSLT
NAB0718_6-12	12	6	18	70509.5	70509.5	0.22%					90	12	179.06	NCHSLT
NAB0818_6-12	12	6	18	59967.2	59967.2	0.89%					90	12	149.86	NCHSLT
NAB0918_6-12	12	6	18	66912.8	66912.8	0.82%					112	15	88.86	NCHSLT
NAB006_6-25	25	6	6	40348.7	40348.7	0.61%					20	4	14.56	NCHSLT
NAB016_6-25	25	6	6	40713.5	40713.5	0.74%					15	3	34.88	NCHSLT
NAB026_6-25	25	6	6	42712.2	42712.2	0.90%					15	3	18.64	NCHSLT
NAB036_6-25	25	6	6	41685.6	41685.6	0.92%					25	5	28.57	NCHSLT
NAB046_6-25	25	6	6	44379.9	44379.9	1.45%					20	4	46.08	NCHSLT
NAB056_6-25	25	6	6	41423.3	41423.3	1.33%					20	4	28.38	NCHSLT
NAB066_6-25	25	6	6	39711.8	39711.8	0.21%					30	6	28.39	NCHSLT
NAB076_6-25	25	6	6	43698.8	43698.8	0.97%					15	3	13.90	NCHSLT
NAB086_6-25	25	6	6	41789.5	41789.5	0.54%					25	5	44.19	NCHSLT
NAB096_6-25	25	6	6	43138.0	43138.0	0.62%					25	5	27.82	NCHSLT
NAB0012_6-25	25	6	12	78147.4	78147.4	0.33%					75	13	131.26	NCHSLT
NAB0112_6-25	25	6	12	80463.2	80463.2	-0.08%					86	15	178.49	NCHSLT
NAB0212_6-25	25	6	12	81222.1	81222.1	0.28%					75	13	184.74	NCHSLT
NAB0312_6-25	25	6	12	78987.6	78987.6	0.30%					69	12	124.48	NCHSLT
NAB0412_6-25	25	6	12	82304.9	82304.9	0.30%					63	11	191.20	NCHSLT
NAB0512_6-25	25	6	12	78129.4	78129.4	0.53%					92	16	187.69	NCHSLT
NAB0612_6-25	25	6	12	75388.6	75388.6	-0.04%					81	14	145.04	NCHSLT
NAB0712_6-25	25	6	12	78842.5	78842.5	0.17%					63	11	56.71	NCHSLT
NAB0812_6-25	25	6	12	77386.4	77386.4	0.76%					63	11	130.35	NCHSLT
NAB0912_6-25	25	6	12	84353.5	84353.5	0.79%					52	9	143.97	NCHSLT
NAB0018_6-25	25	6	18	113521.4	113521.4	0.29%					70	9	188.69	NCHSLT
NAB0118_6-25	25	6	18	118842.0	118842.0	0.04%					76	10	175.87	NCHSLT
NAB0218_6-25	25	6	18	121972.5	121972.5	0.21%					82	11	257.06	NCHSLT
NAB0318_6-25	25	6	18	118717.8	118717.8	0.13%					76	10	312.80	NCHSLT
NAB0418_6-25	25	6	18	122132.0	122132.0	0.01%					98	13	353.68	NCHSLT
NAB0518_6-25	25	6	18	119046.1	119046.1	0.29%					120	16	258.94	NCHSLT
NAB0618_6-25	25	6	18	110591.0	110591.0	0.23%					60	8	130.60	NCHSLT
NAB0718_6-25	25	6	18	116413.9	116413.9	0.30%					82	11	167.29	NCHSLT
NAB0818_6-25	25	6	18	110745.6	110745.6	-0.01%					54	7	138.81	NCHSLT
NAB0918_6-25	25	6	18	124487.4	124487.4	0.18%					90	12	301.32	NCHSLT
NAB006_6-50	50	6	6	75544.2	75544.2	0.49%					15	3	26.19	NCHSLT
NAB016_6-50	50	6	6	78465.7	78465.7	0.45%					25	5	65.14	NCHSLT
NAB026_6-50	50	6	6	80963.4	80963.4	0.23%					20	4	59.72	NCHSLT
NAB036_6-50	50	6	6	78988.0	78988.0	0.14%					20	4	37.30	NCHSLT
NAB046_6-50	50	6	6	82030.6	82030.6	0.64%					20	4	80.66	NCHSLT
NAB056_6-50	50	6	6	82541.9	82541.9	0.37%					25	5	80.95	NCHSLT
NAB066_6-50	50	6	6	79238.5	79238.5	0.48%					20	4	73.69	NCHSLT
NAB076_6-50	50	6	6	82563.1	82563.1	0.48%					20	4	54.89	NCHSLT
NAB086_6-50	50	6	6	77693.0	77693.0	0.38%					25	5	66.69	NCHSLT
NAB096_6-50	50	6	6	78895.3	78895.3	0.37%					20	4	63.87	NCHSLT
NAB0012_6-50	50	6	12	146872.4	146872.4	0.23%					80	14	218.09	NCHSLT
NAB0112_6-50	50	6	12	149728.4	149728.4	0.23%					35	6	80.48	NCHSLT
NAB0212_6-50	50	6	12	154223.7	154223.7	0.15%					41	7	212.08	NCHSLT
NAB0312_6-50	50	6	12	152528.1	152528.1	0.12%					64	11	169.09	NCHSLT
NAB0412_6-50	50	6	12	159660.5	159660.5	0.18%					58	10	235.03	NCHSLT
NAB0512_6-50	50	6	12	157632.9	157632.9	0.20%					81	14	267.37	NCHSLT
NAB0612_6-50	50	6	12	148475.2	148475.2	0.10%					121	21	532.91	NCHSLT
NAB0712_6-50	50	6	12	157323.8	157323.8	0.08%					63	11	166.09	NCHSLT
NAB0812_6-50	50	6	12	144478.5	144478.5	0.31%					23	4	78.73	NCHSLT
NAB0912_6-50	50	6	12	151828.4	151828.4	0.06%					58	10	187.22	NCHSLT
NAB0018_6-50	50	6	18	216429.0	216429.0	-0.10%					82	11	264.17	NCHSLT
NAB0118_6-50	50	6	18	219377.3	219377.3	0.14%					82	11	281.83	NCHSLT
NAB0218_6-50	50	6	18	225070.0	225070.0	0.19%					68	9	350.98	NCHSLT
NAB0318_6-50	50	6	18	226502.2	226502.2	0.07%					60	8	275.76	NCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_6-50	50	6	18	236848.0	237062.4	-0.03%					96	13	603.77	NCHSLT
NAB0518_6-50	50	6	18	226490.1	226490.1	0.06%					68	9	234.91	NCHSLT
NAB0618_6-50	50	6	18	219957.1	220713.4	0.03%					77	11	604.35	NCHSLT
NAB0718_6-50	50	6	18	230950.4	230950.4	0.16%					82	11	358.38	NCHSLT
NAB0818_6-50	50	6	18	215612.4	215612.4	0.06%					60	8	186.33	NCHSLT
NAB0918_6-50	50	6	18	225169.6	225169.6	0.07%					82	11	415.96	NCHSLT
NBA006_2-6	6	2	6	8049.4	8049.4	0.12%					15	3	0.45	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%					15	3	0.15	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%					15	3	0.28	NCLSHT
NBA036_2-6	6	2	6	7713.1	7713.1	0.33%					15	3	0.32	NCLSHT
NBA046_2-6	6	2	6	7759.6	7759.6	0.30%					25	5	0.62	NCLSHT
NBA056_2-6	6	2	6	9364.1	9364.1	0.24%					10	2	0.18	NCLSHT
NBA066_2-6	6	2	6	8003.0	8003.0	0.07%					10	2	0.22	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%					10	2	0.19	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%					10	2	0.23	NCLSHT
NBA096_2-6	6	2	6	7088.9	7088.9	0.00%					10	2	0.12	NCLSHT
NBA0012_2-6	6	2	12	15351.3	15351.3	0.00%					34	6	1.82	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%					40	7	0.92	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%					29	5	0.75	NCLSHT
NBA0312_2-6	6	2	12	14530.8	14530.8	0.11%					40	7	1.43	NCLSHT
NBA0412_2-6	6	2	12	13499.5	13499.5	0.13%					40	7	2.70	NCLSHT
NBA0512_2-6	6	2	12	17237.2	17237.2	0.00%					34	6	0.77	NCLSHT
NBA0612_2-6	6	2	12	14771.0	14771.0	0.00%					17	3	0.37	NCLSHT
NBA0712_2-6	6	2	12	16542.1	16542.1	0.00%					34	6	1.73	NCLSHT
NBA0812_2-6	6	2	12	14100.3	14100.3	0.00%					23	4	0.72	NCLSHT
NBA0912_2-6	6	2	12	16056.8	16056.8	0.00%					29	5	0.75	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%					60	8	5.59	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%					30	4	0.92	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%					44	6	2.36	NCLSHT
NBA0318_2-6	6	2	18	22932.5	22932.5	0.03%					52	7	2.78	NCLSHT
NBA0418_2-6	6	2	18	19866.7	19866.7	0.08%					38	5	3.78	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%					22	3	0.80	NCLSHT
NBA0618_2-6	6	2	18	22629.8	22629.8	0.04%					52	7	2.75	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%					38	5	3.48	NCLSHT
NBA0818_2-6	6	2	18	20728.0	20728.0	0.00%					44	6	1.87	NCLSHT
NBA0918_2-6	6	2	18	22402.4	22402.4	0.00%					44	6	1.44	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%					10	2	0.16	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%					15	3	0.35	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%					15	3	0.49	NCLSHT
NBA036_2-12	12	2	6	16299.4	16299.4	0.00%					10	2	0.20	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%					10	2	0.24	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%					10	2	0.19	NCLSHT
NBA066_2-12	12	2	6	13754.3	13754.3	0.20%					15	3	0.36	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%					5	1	0.12	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%					15	3	0.33	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%					20	4	0.78	NCLSHT
NBA0012_2-12	12	2	12	25999.4	25999.4	0.00%					28	5	0.79	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%					23	4	0.71	NCLSHT
NBA0212_2-12	12	2	12	26958.7	26958.7	0.10%					46	8	3.21	NCLSHT
NBA0312_2-12	12	2	12	31645.2	31645.2	0.00%					45	8	1.82	NCLSHT
NBA0412_2-12	12	2	12	28149.1	28149.1	0.00%					57	10	2.28	NCLSHT
NBA0512_2-12	12	2	12	31963.5	31963.5	0.00%					28	5	1.14	NCLSHT
NBA0612_2-12	12	2	12	27141.8	27141.8	0.03%					34	6	1.01	NCLSHT
NBA0712_2-12	12	2	12	30159.8	30159.8	0.00%					34	6	0.87	NCLSHT
NBA0812_2-12	12	2	12	26608.5	26608.5	0.05%					40	7	2.04	NCLSHT
NBA0912_2-12	12	2	12	30769.9	30769.9	0.04%					51	9	10.46	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%					22	3	1.05	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%					44	6	3.07	NCLSHT
NBA0218_2-12	12	2	18	41237.0	41237.0	0.02%					30	4	5.42	NCLSHT
NBA0318_2-12	12	2	18	46065.0	46065.0	0.00%					52	7	4.39	NCLSHT
NBA0418_2-12	12	2	18	44030.3	44030.3	0.00%					52	7	4.80	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%					30	4	2.17	NCLSHT
NBA0618_2-12	12	2	18	40454.2	40454.2	0.00%					38	5	2.06	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%					30	4	1.72	NCLSHT
NBA0818_2-12	12	2	18	41119.5	41119.5	0.00%					22	3	3.00	NCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_2-12	12	2	18	46895.1	46895.1	0.00%					38	5	9.06	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%					10	2	0.38	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%					10	2	0.46	NCLSHT
NBA026_2-25	25	2	6	28314.1	28314.1	0.08%					15	3	0.79	NCLSHT
NBA036_2-25	25	2	6	30091.5	30091.5	0.05%					15	3	0.68	NCLSHT
NBA046_2-25	25	2	6	31276.2	31276.2	0.03%					10	2	0.66	NCLSHT
NBA056_2-25	25	2	6	31286.9	31286.9	0.09%					15	3	0.96	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%					15	3	0.34	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%					15	3	0.67	NCLSHT
NBA086_2-25	25	2	6	31928.1	31928.1	0.16%					15	3	1.07	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%					20	4	1.22	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%					23	4	0.94	NCLSHT
NBA0112_2-25	25	2	12	60750.5	60750.5	0.00%					28	5	2.06	NCLSHT
NBA0212_2-25	25	2	12	55997.4	55997.4	0.03%					69	12	8.70	NCLSHT
NBA0312_2-25	25	2	12	59052.1	59052.1	0.04%					46	8	4.37	NCLSHT
NBA0412_2-25	25	2	12	59435.3	59435.3	0.00%					34	6	2.78	NCLSHT
NBA0512_2-25	25	2	12	64651.4	64651.4	0.00%					23	4	1.67	NCLSHT
NBA0612_2-25	25	2	12	57093.1	57093.1	0.00%					28	5	1.07	NCLSHT
NBA0712_2-25	25	2	12	62599.1	62599.1	0.01%					45	8	3.66	NCLSHT
NBA0812_2-25	25	2	12	62462.2	62462.2	0.00%					51	9	10.13	NCLSHT
NBA0912_2-25	25	2	12	63791.6	63791.6	0.02%					39	7	2.36	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%					22	3	1.36	NCLSHT
NBA0118_2-25	25	2	18	88422.0	88422.0	0.00%					30	4	3.42	NCLSHT
NBA0218_2-25	25	2	18	82860.8	82860.8	0.00%					52	7	8.84	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%					30	4	3.21	NCLSHT
NBA0418_2-25	25	2	18	90293.2	90293.2	0.02%					52	7	11.57	NCLSHT
NBA0518_2-25	25	2	18	94617.5	94617.5	0.01%					44	6	8.84	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%					22	3	1.11	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%					30	4	4.24	NCLSHT
NBA0818_2-25	25	2	18	91137.4	91137.4	0.02%					60	8	17.80	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%					44	6	4.58	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%					10	2	0.60	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%					15	3	0.79	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%					10	2	0.81	NCLSHT
NBA036_2-50	50	2	6	59061.8	59061.8	0.00%					10	2	0.88	NCLSHT
NBA046_2-50	50	2	6	60538.6	60538.6	0.01%					15	3	1.17	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%					10	2	0.63	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%					10	2	0.66	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%					10	2	0.67	NCLSHT
NBA086_2-50	50	2	6	59777.0	59777.0	0.00%					10	2	0.96	NCLSHT
NBA096_2-50	50	2	6	60442.2	60442.2	0.01%					10	2	0.80	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%					11	2	0.91	NCLSHT
NBA0112_2-50	50	2	12	119722.8	119722.8	0.00%					28	5	2.14	NCLSHT
NBA0212_2-50	50	2	12	113771.1	113771.1	0.00%					28	5	4.12	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%					17	3	1.70	NCLSHT
NBA0412_2-50	50	2	12	121762.7	121762.7	0.00%					34	6	4.12	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%					17	3	2.05	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%					17	3	1.45	NCLSHT
NBA0712_2-50	50	2	12	114482.7	114482.7	0.00%					28	5	5.07	NCLSHT
NBA0812_2-50	50	2	12	115037.1	115037.1	0.00%					51	9	10.93	NCLSHT
NBA0912_2-50	50	2	12	122205.8	122205.8	0.00%					28	5	2.83	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%					22	3	2.64	NCLSHT
NBA0118_2-50	50	2	18	178654.3	178654.3	0.00%					44	6	6.13	NCLSHT
NBA0218_2-50	50	2	18	169385.1	169385.1	0.00%					30	4	6.06	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%					30	4	4.88	NCLSHT
NBA0418_2-50	50	2	18	181166.2	181166.2	0.01%					52	7	28.23	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%					22	3	2.79	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%					22	3	3.60	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%					22	3	5.10	NCLSHT
NBA0818_2-50	50	2	18	173119.8	173119.8	0.00%					60	8	17.25	NCLSHT
NBA0918_2-50	50	2	18	182592.7	182592.7	0.00%					36	5	8.52	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%					15	3	0.23	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%					10	2	0.31	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%					10	2	0.21	NCLSHT
NBA036_4-6	6	4	6	6619.3	6619.3	0.00%					15	3	0.49	NCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_4-6	6	4	6	5430.4	5430.4	0.00%					10	2	0.19	NCLSHT
NBA056_4-6	6	4	6	7754.9	7754.9	0.69%					20	4	1.11	NCLSHT
NBA066_4-6	6	4	6	6274.1	6274.1	0.10%					15	3	0.58	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%					15	3	0.28	NCLSHT
NBA086_4-6	6	4	6	5797.5	5797.5	0.09%					15	3	0.39	NCLSHT
NBA096_4-6	6	4	6	8490.5	8490.5	0.10%					20	4	0.67	NCLSHT
NBA0012_4-6	6	4	12	11580.9	11580.9	0.00%					34	6	0.99	NCLSHT
NBA0112_4-6	6	4	12	15071.9	15071.9	0.09%					29	5	4.32	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%					23	4	1.23	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%					40	7	1.82	NCLSHT
NBA0412_4-6	6	4	12	12571.5	12571.5	0.00%					40	7	2.56	NCLSHT
NBA0512_4-6	6	4	12	15592.7	15592.7	0.00%					34	6	5.51	NCLSHT
NBA0612_4-6	6	4	12	12642.8	12642.8	0.15%					45	8	2.72	NCLSHT
NBA0712_4-6	6	4	12	14533.0	14533.0	0.00%					51	9	2.58	NCLSHT
NBA0812_4-6	6	4	12	12165.7	12165.7	0.00%					34	6	2.96	NCLSHT
NBA0912_4-6	6	4	12	14717.5	14717.5	0.12%					34	6	1.63	NCLSHT
NBA0018_4-6	6	4	18	18430.2	18430.2	0.00%					30	4	2.72	NCLSHT
NBA0118_4-6	6	4	18	21322.6	21322.6	0.00%					44	6	6.51	NCLSHT
NBA0218_4-6	6	4	18	21169.6	21169.6	0.00%					44	6	3.74	NCLSHT
NBA0318_4-6	6	4	18	21681.1	21681.1	0.03%					30	4	2.97	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%					52	7	3.92	NCLSHT
NBA0518_4-6	6	4	18	23051.6	23051.6	0.15%					46	6	12.52	NCLSHT
NBA0618_4-6	6	4	18	19482.4	19482.4	0.02%					66	9	10.53	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%					38	5	3.08	NCLSHT
NBA0818_4-6	6	4	18	18069.1	18069.1	0.02%					38	5	4.50	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%					54	7	4.47	NCLSHT
NBA006_4-12	12	4	6	13153.7	13153.7	0.00%					20	4	1.56	NCLSHT
NBA016_4-12	12	4	6	15337.0	15337.0	0.17%					25	5	2.26	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%					15	3	0.64	NCLSHT
NBA036_4-12	12	4	6	12218.4	12218.4	0.01%					15	3	0.79	NCLSHT
NBA046_4-12	12	4	6	14277.8	14277.8	0.00%					15	3	0.59	NCLSHT
NBA056_4-12	12	4	6	14092.9	14092.9	0.00%					15	3	0.97	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%					10	2	0.27	NCLSHT
NBA076_4-12	12	4	6	12420.9	12420.9	0.09%					10	2	0.63	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%					20	4	0.86	NCLSHT
NBA096_4-12	12	4	6	13187.7	13187.7	0.04%					30	6	2.54	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%					23	4	4.72	NCLSHT
NBA0112_4-12	12	4	12	28359.0	28359.0	0.00%					46	8	9.93	NCLSHT
NBA0212_4-12	12	4	12	26394.4	26394.4	0.00%					40	7	3.13	NCLSHT
NBA0312_4-12	12	4	12	25275.1	25275.1	0.00%					40	7	3.09	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%					34	6	2.85	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%					23	4	1.78	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%					23	4	1.07	NCLSHT
NBA0712_4-12	12	4	12	26163.0	26163.0	0.03%					40	7	4.88	NCLSHT
NBA0812_4-12	12	4	12	27994.2	27994.2	0.00%					28	5	2.70	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%					34	6	15.57	NCLSHT
NBA0018_4-12	12	4	18	38035.7	38035.7	0.02%					52	7	18.17	NCLSHT
NBA0118_4-12	12	4	18	41660.4	41660.4	0.07%					46	6	39.41	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%					44	6	6.65	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%					46	6	7.57	NCLSHT
NBA0418_4-12	12	4	18	40569.8	40569.8	0.00%					68	9	23.82	NCLSHT
NBA0518_4-12	12	4	18	41010.6	41010.6	0.02%					60	8	14.53	NCLSHT
NBA0618_4-12	12	4	18	37077.0	37077.0	0.03%					30	4	3.57	NCLSHT
NBA0718_4-12	12	4	18	41043.3	41043.3	0.02%					44	6	15.88	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%					38	5	5.09	NCLSHT
NBA0918_4-12	12	4	18	41429.2	41429.2	0.00%					30	4	25.61	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%					15	3	1.03	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%					15	3	1.33	NCLSHT
NBA026_4-25	25	4	6	27548.3	27548.3	0.00%					10	2	0.66	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%					20	4	1.72	NCLSHT
NBA046_4-25	25	4	6	26626.0	26626.0	0.04%					10	2	0.70	NCLSHT
NBA056_4-25	25	4	6	30122.2	30122.2	0.04%					10	2	0.99	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%					10	2	0.43	NCLSHT
NBA076_4-25	25	4	6	26942.8	26942.8	0.02%					15	3	2.05	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%					10	2	0.65	NCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_4-25	25	4	6	27874.4	27874.4	0.09%					10	2	1.14	NCLSHT
NBA0012_4-25	25	4	12	53578.7	53578.7	0.01%					51	9	15.48	NCLSHT
NBA0112_4-25	25	4	12	56262.4	56262.4	0.01%					51	9	6.28	NCLSHT
NBA0212_4-25	25	4	12	53158.9	53158.9	0.01%					40	7	9.08	NCLSHT
NBA0312_4-25	25	4	12	53938.9	53938.9	0.00%					40	7	7.58	NCLSHT
NBA0412_4-25	25	4	12	54866.3	54866.3	0.00%					28	5	3.73	NCLSHT
NBA0512_4-25	25	4	12	57028.2	57028.2	0.00%					34	6	4.42	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%					17	3	1.85	NCLSHT
NBA0712_4-25	25	4	12	55384.1	55384.1	0.01%					51	9	13.22	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%					17	3	2.19	NCLSHT
NBA0912_4-25	25	4	12	54755.7	54755.7	0.03%					29	5	5.40	NCLSHT
NBA0018_4-25	25	4	18	77879.2	77879.2	0.00%					30	4	19.31	NCLSHT
NBA0118_4-25	25	4	18	83801.3	83801.3	0.00%					44	6	9.65	NCLSHT
NBA0218_4-25	25	4	18	80776.0	80776.0	0.00%					60	8	23.18	NCLSHT
NBA0318_4-25	25	4	18	80246.3	80246.3	0.00%					52	7	13.22	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%					22	3	2.88	NCLSHT
NBA0518_4-25	25	4	18	84238.2	84238.2	0.00%					44	6	9.96	NCLSHT
NBA0618_4-25	25	4	18	77305.9	77305.9	0.00%					30	4	4.06	NCLSHT
NBA0718_4-25	25	4	18	82389.6	82389.6	0.00%					60	8	27.59	NCLSHT
NBA0818_4-25	25	4	18	78378.5	78378.5	0.00%					52	7	8.33	NCLSHT
NBA0918_4-25	25	4	18	82201.5	82201.5	0.00%					38	5	14.47	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%					10	2	1.01	NCLSHT
NBA016_4-50	50	4	6	55352.3	55352.3	0.00%					10	2	1.01	NCLSHT
NBA026_4-50	50	4	6	55982.7	55982.7	0.00%					15	3	1.17	NCLSHT
NBA036_4-50	50	4	6	55089.4	55089.4	0.00%					10	2	1.64	NCLSHT
NBA046_4-50	50	4	6	56679.7	56679.7	0.03%					15	3	5.01	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%					15	3	0.95	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%					10	2	0.80	NCLSHT
NBA076_4-50	50	4	6	51565.6	51565.6	0.00%					10	2	0.99	NCLSHT
NBA086_4-50	50	4	6	52838.0	52838.0	0.01%					10	2	1.69	NCLSHT
NBA096_4-50	50	4	6	60101.0	60101.0	0.00%					10	2	0.82	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%					23	4	19.14	NCLSHT
NBA0112_4-50	50	4	12	108409.8	108409.8	0.00%					34	6	5.83	NCLSHT
NBA0212_4-50	50	4	12	107881.1	107881.1	0.00%					28	5	6.06	NCLSHT
NBA0312_4-50	50	4	12	109984.9	109984.9	0.00%					23	4	8.39	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%					23	4	6.57	NCLSHT
NBA0512_4-50	50	4	12	111970.9	111970.9	0.00%					45	8	7.80	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%					17	3	2.54	NCLSHT
NBA0712_4-50	50	4	12	106401.2	106401.2	0.00%					39	7	18.36	NCLSHT
NBA0812_4-50	50	4	12	106458.2	106458.2	0.00%					28	5	3.96	NCLSHT
NBA0912_4-50	50	4	12	114303.3	114303.3	0.00%					28	5	5.22	NCLSHT
NBA0018_4-50	50	4	18	159938.8	159938.8	0.00%					44	6	13.51	NCLSHT
NBA0118_4-50	50	4	18	161692.8	161692.8	0.00%					44	6	16.66	NCLSHT
NBA0218_4-50	50	4	18	162666.7	162666.7	0.00%					30	4	38.19	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%					30	4	13.45	NCLSHT
NBA0418_4-50	50	4	18	166162.4	166162.4	0.00%					30	4	18.96	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%					22	3	7.60	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%					30	4	7.58	NCLSHT
NBA0718_4-50	50	4	18	161440.2	161440.2	0.01%					68	9	80.49	NCLSHT
NBA0818_4-50	50	4	18	157274.1	157274.1	0.00%					44	6	9.46	NCLSHT
NBA0918_4-50	50	4	18	168431.7	168431.7	0.00%					36	5	12.90	NCLSHT
NBA006_6-6	6	6	6	5607.3	5607.3	0.00%					10	2	0.27	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%					20	4	1.09	NCLSHT
NBA026_6-6	6	6	6	6939.6	6939.6	0.00%					15	3	0.59	NCLSHT
NBA036_6-6	6	6	6	7380.7	7380.7	0.88%					15	3	0.45	NCLSHT
NBA046_6-6	6	6	6	8017.1	8017.1	0.00%					15	3	0.75	NCLSHT
NBA056_6-6	6	6	6	7914.6	7914.6	0.04%					20	4	0.98	NCLSHT
NBA066_6-6	6	6	6	6664.8	6664.8	0.06%					15	3	0.54	NCLSHT
NBA076_6-6	6	6	6	7702.2	7702.2	0.09%					15	3	0.79	NCLSHT
NBA086_6-6	6	6	6	6624.8	6624.8	0.00%					15	3	1.26	NCLSHT
NBA096_6-6	6	6	6	7390.7	7390.7	0.00%					15	3	1.83	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%					29	5	0.95	NCLSHT
NBA0112_6-6	6	6	12	14044.9	14044.9	0.00%					46	8	8.51	NCLSHT
NBA0212_6-6	6	6	12	14140.5	14140.5	0.00%					23	4	1.73	NCLSHT
NBA0312_6-6	6	6	12	14723.4	14723.4	0.13%					63	11	5.63	NCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0412_6-6	6	6	12	14749.6	14749.6	0.00%					40	7	5.24	NCLSHT
NBA0512_6-6	6	6	12	14520.2	14520.2	0.03%					57	10	4.91	NCLSHT
NBA0612_6-6	6	6	12	12568.0	12568.0	0.00%					34	6	3.35	NCLSHT
NBA0712_6-6	6	6	12	15111.1	15111.1	0.01%					29	5	3.24	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%					34	6	2.44	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%					35	6	3.24	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%					52	7	2.66	NCLSHT
NBA0118_6-6	6	6	18	21526.3	21526.3	0.00%					38	5	18.85	NCLSHT
NBA0218_6-6	6	6	18	19872.5	19872.5	0.01%					38	5	5.78	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%					38	5	4.99	NCLSHT
NBA0418_6-6	6	6	18	21953.4	21953.4	0.00%					44	6	8.76	NCLSHT
NBA0518_6-6	6	6	18	22131.6	22131.6	0.01%					52	7	9.78	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%					30	4	5.70	NCLSHT
NBA0718_6-6	6	6	18	21763.2	21763.2	0.02%					52	7	5.34	NCLSHT
NBA0818_6-6	6	6	18	19935.5	19935.5	0.13%					46	6	16.14	NCLSHT
NBA0918_6-6	6	6	18	21302.0	21302.0	0.03%					68	9	16.19	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%					20	4	1.38	NCLSHT
NBA016_6-12	12	6	6	13034.5	13034.5	0.01%					10	2	1.11	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%					15	3	0.64	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%					15	3	0.67	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%					15	3	0.65	NCLSHT
NBA056_6-12	12	6	6	12333.4	12333.4	0.00%					15	3	0.64	NCLSHT
NBA066_6-12	12	6	6	11650.8	11650.8	0.08%					30	6	2.05	NCLSHT
NBA076_6-12	12	6	6	13567.6	13567.6	0.65%					15	3	4.25	NCLSHT
NBA086_6-12	12	6	6	13379.8	13379.8	0.04%					20	4	1.97	NCLSHT
NBA096_6-12	12	6	6	14311.8	14311.8	0.07%					15	3	1.40	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%					34	6	3.09	NCLSHT
NBA0112_6-12	12	6	12	25521.9	25521.9	0.00%					34	6	4.80	NCLSHT
NBA0212_6-12	12	6	12	24025.6	24025.6	0.00%					51	9	9.34	NCLSHT
NBA0312_6-12	12	6	12	26446.1	26446.1	0.00%					51	9	5.86	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%					17	3	1.39	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%					34	6	3.17	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%					29	5	5.04	NCLSHT
NBA0712_6-12	12	6	12	27880.1	27880.1	0.02%					51	9	57.71	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%					46	8	10.91	NCLSHT
NBA0912_6-12	12	6	12	27276.2	27276.2	0.00%					52	9	18.50	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%					30	4	5.39	NCLSHT
NBA0118_6-12	12	6	18	40980.5	40980.5	0.02%					52	7	13.46	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%					30	4	6.55	NCLSHT
NBA0318_6-12	12	6	18	38314.3	38314.3	0.00%					30	4	6.43	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%					44	6	7.70	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%					38	5	11.48	NCLSHT
NBA0618_6-12	12	6	18	37140.3	37140.3	0.00%					38	5	13.82	NCLSHT
NBA0718_6-12	12	6	18	41274.9	41274.9	0.00%					60	8	27.83	NCLSHT
NBA0818_6-12	12	6	18	39068.6	39068.6	0.00%					52	7	71.11	NCLSHT
NBA0918_6-12	12	6	18	41049.4	41049.4	0.04%					52	7	32.95	NCLSHT
NBA006_6-25	25	6	6	25557.6	25557.6	0.01%					10	2	2.79	NCLSHT
NBA016_6-25	25	6	6	25302.8	25302.8	0.01%					15	3	1.62	NCLSHT
NBA026_6-25	25	6	6	26727.4	26727.4	0.04%					15	3	1.71	NCLSHT
NBA036_6-25	25	6	6	26599.6	26599.6	0.13%					15	3	4.21	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%					15	3	3.25	NCLSHT
NBA056_6-25	25	6	6	26229.3	26229.3	0.03%					15	3	2.35	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%					15	3	1.00	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%					15	3	1.88	NCLSHT
NBA086_6-25	25	6	6	26567.2	26567.2	0.02%					15	3	1.60	NCLSHT
NBA096_6-25	25	6	6	26259.9	26259.9	0.00%					20	4	2.34	NCLSHT
NBA0012_6-25	25	6	12	52242.9	52242.9	0.00%					46	8	27.12	NCLSHT
NBA0112_6-25	25	6	12	52477.0	52477.0	0.01%					40	7	57.56	NCLSHT
NBA0212_6-25	25	6	12	53883.4	53883.4	0.01%					57	10	16.68	NCLSHT
NBA0312_6-25	25	6	12	52207.5	52207.5	0.01%					80	14	61.75	NCLSHT
NBA0412_6-25	25	6	12	55764.7	55764.7	0.00%					52	9	89.56	NCLSHT
NBA0512_6-25	25	6	12	51650.3	51650.3	0.02%					40	7	61.37	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%					23	4	2.55	NCLSHT
NBA0712_6-25	25	6	12	52538.0	52538.0	0.02%					57	10	20.50	NCLSHT
NBA0812_6-25	25	6	12	51075.3	51075.3	0.00%					29	5	8.19	NCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_6-25	25	6	12	53462.0	53462.0	0.00%					40	7	23.40	NCLSHT
NBA0018_6-25	25	6	18	76073.4	76073.4	0.01%					38	5	82.82	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%					38	5	22.82	NCLSHT
NBA0218_6-25	25	6	18	81495.4	81495.4	0.00%					38	5	25.71	NCLSHT
NBA0318_6-25	25	6	18	79343.7	79343.7	0.00%					52	7	72.68	NCLSHT
NBA0418_6-25	25	6	18	84599.2	84599.2	0.02%					30	4	76.18	NCLSHT
NBA0518_6-25	25	6	18	80778.5	80778.5	0.00%					82	11	44.90	NCLSHT
NBA0618_6-25	25	6	18	76162.0	76162.0	0.00%					44	6	10.01	NCLSHT
NBA0718_6-25	25	6	18	77487.6	77487.6	0.01%					66	9	53.46	NCLSHT
NBA0818_6-25	25	6	18	74936.0	74936.0	0.00%					44	6	22.90	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%					44	6	23.24	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%					10	2	1.47	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%					10	2	3.50	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%					10	2	2.29	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%					10	2	1.26	NCLSHT
NBA046_6-50	50	6	6	53895.4	53895.4	0.03%					20	4	11.00	NCLSHT
NBA056_6-50	50	6	6	52668.0	52668.0	0.02%					10	2	3.03	NCLSHT
NBA066_6-50	50	6	6	51786.8	51786.8	0.00%					15	3	8.72	NCLSHT
NBA076_6-50	50	6	6	53957.4	53957.4	0.02%					15	3	2.99	NCLSHT
NBA086_6-50	50	6	6	50767.6	50767.6	0.00%					15	3	1.63	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%					10	2	1.31	NCLSHT
NBA0012_6-50	50	6	12	102385.2	102385.2	0.00%					34	6	10.29	NCLSHT
NBA0112_6-50	50	6	12	101403.3	101403.3	0.00%					34	6	14.24	NCLSHT
NBA0212_6-50	50	6	12	104862.2	104862.2	0.00%					23	4	21.47	NCLSHT
NBA0312_6-50	50	6	12	102384.7	102384.7	0.00%					40	7	16.13	NCLSHT
NBA0412_6-50	50	6	12	109568.4	109568.4	0.00%					57	10	33.79	NCLSHT
NBA0512_6-50	50	6	12	105138.8	105138.8	0.00%					23	4	37.63	NCLSHT
NBA0612_6-50	50	6	12	101764.2	101764.2	0.00%					46	8	32.55	NCLSHT
NBA0712_6-50	50	6	12	107431.9	107431.9	0.00%					51	9	15.51	NCLSHT
NBA0812_6-50	50	6	12	99742.5	99742.5	0.00%					40	7	9.93	NCLSHT
NBA0912_6-50	50	6	12	102195.6	102195.6	0.00%					29	5	15.67	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%					30	4	15.13	NCLSHT
NBA0118_6-50	50	6	18	150738.5	150738.5	0.00%					30	4	45.58	NCLSHT
NBA0218_6-50	50	6	18	154214.9	154214.9	0.00%					38	5	62.35	NCLSHT
NBA0318_6-50	50	6	18	154041.9	154041.9	0.01%					52	7	42.72	NCLSHT
NBA0418_6-50	50	6	18	164544.9	164544.9	0.00%					30	4	45.13	NCLSHT
NBA0518_6-50	50	6	18	155176.8	155176.8	0.00%					38	5	87.78	NCLSHT
NBA0618_6-50	50	6	18	153862.5	153862.5	0.00%					44	6	84.03	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%					30	4	27.96	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%					22	3	23.99	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%					38	5	18.30	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%					15	3	0.52	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%					10	2	0.11	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%					15	3	0.30	NCLSLT
NBB036_2-6	6	2	6	7760.8	7760.8	0.60%					20	4	0.39	NCLSLT
NBB046_2-6	6	2	6	7818.6	7818.6	0.26%					15	3	0.32	NCLSLT
NBB056_2-6	6	2	6	9352.7	9352.7	0.00%					15	3	0.21	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%					15	3	0.29	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%					20	4	0.45	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%					10	2	0.20	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%					15	3	0.16	NCLSLT
NBB0012_2-6	6	2	12	15489.2	15489.2	0.00%					46	8	2.29	NCLSLT
NBB0112_2-6	6	2	12	13322.4	13322.4	0.00%					45	8	1.03	NCLSLT
NBB0212_2-6	6	2	12	14629.1	14629.1	0.27%					34	6	1.22	NCLSLT
NBB0312_2-6	6	2	12	14732.6	14732.6	0.01%					46	8	1.48	NCLSLT
NBB0412_2-6	6	2	12	13603.7	13603.7	0.04%					40	7	2.35	NCLSLT
NBB0512_2-6	6	2	12	17351.7	17351.7	0.07%					28	5	0.98	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%					28	5	1.01	NCLSLT
NBB0712_2-6	6	2	12	16591.7	16591.7	0.00%					40	7	1.66	NCLSLT
NBB0812_2-6	6	2	12	14140.1	14140.1	0.00%					34	6	1.33	NCLSLT
NBB0912_2-6	6	2	12	16078.0	16078.0	0.02%					23	4	0.64	NCLSLT
NBB0018_2-6	6	2	18	21689.6	21689.6	0.22%					44	6	6.67	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%					44	6	1.29	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%					30	4	1.99	NCLSLT
NBB0418_2-6	6	2	18	20015.1	20015.1	0.00%					38	5	3.93	NCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%					38	5	1.47	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%					44	6	2.29	NCLSLT
NBB0718_2-6	6	2	18	24299.8	24299.8	0.00%					66	9	6.55	NCLSLT
NBB0818_2-6	6	2	18	20809.2	20809.2	0.00%					52	7	2.92	NCLSLT
NBB0918_2-6	6	2	18	22438.7	22438.7	0.01%					30	4	1.08	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%					10	2	0.18	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%					10	2	0.27	NCLSLT
NBB026_2-12	12	2	6	14057.0	14057.0	0.02%					15	3	0.56	NCLSLT
NBB036_2-12	12	2	6	16322.7	16322.7	0.03%					10	2	0.27	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%					10	2	0.27	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%					20	4	0.46	NCLSLT
NBB066_2-12	12	2	6	13804.5	13804.5	0.41%					10	2	0.31	NCLSLT
NBB076_2-12	12	2	6	15396.6	15396.6	0.00%					10	2	0.26	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%					10	2	0.20	NCLSLT
NBB096_2-12	12	2	6	15906.8	15906.8	0.43%					15	3	0.48	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%					23	4	0.86	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%					23	4	0.74	NCLSLT
NBB0212_2-12	12	2	12	27060.1	27060.1	0.03%					51	9	6.01	NCLSLT
NBB0312_2-12	12	2	12	31689.7	31689.7	0.04%					40	7	1.60	NCLSLT
NBB0412_2-12	12	2	12	28227.9	28227.9	0.01%					52	9	3.44	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%					34	6	1.61	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%					40	7	1.32	NCLSLT
NBB0712_2-12	12	2	12	30253.9	30253.9	0.03%					23	4	1.33	NCLSLT
NBB0812_2-12	12	2	12	26625.0	26625.0	0.00%					51	9	2.50	NCLSLT
NBB0912_2-12	12	2	12	30969.6	30969.6	0.09%					57	10	24.05	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%					30	4	1.81	NCLSLT
NBB0118_2-12	12	2	18	40340.6	40340.6	0.00%					60	8	5.23	NCLSLT
NBB0218_2-12	12	2	18	41453.3	41453.3	0.02%					52	7	10.65	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%					30	4	4.06	NCLSLT
NBB0418_2-12	12	2	18	44107.2	44107.2	0.00%					52	7	6.71	NCLSLT
NBB0518_2-12	12	2	18	47248.5	47248.5	0.03%					36	5	3.30	NCLSLT
NBB0618_2-12	12	2	18	40542.2	40542.2	0.00%					38	5	2.98	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%					30	4	1.96	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%					38	5	4.12	NCLSLT
NBB0918_2-12	12	2	18	47150.7	47150.7	0.01%					52	7	21.96	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%					10	2	0.38	NCLSLT
NBB016_2-25	25	2	6	29864.0	29864.0	0.08%					15	3	0.87	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%					10	2	0.52	NCLSLT
NBB036_2-25	25	2	6	30155.8	30155.8	0.11%					10	2	0.81	NCLSLT
NBB046_2-25	25	2	6	31325.2	31325.2	0.02%					10	2	0.56	NCLSLT
NBB056_2-25	25	2	6	31397.4	31397.4	0.13%					10	2	0.75	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%					10	2	0.24	NCLSLT
NBB076_2-25	25	2	6	31237.5	31237.5	0.03%					10	2	0.60	NCLSLT
NBB086_2-25	25	2	6	31989.1	31989.1	0.08%					15	3	1.10	NCLSLT
NBB096_2-25	25	2	6	33004.5	33004.5	0.08%					10	2	0.67	NCLSLT
NBB0012_2-25	25	2	12	58130.1	58130.1	0.01%					28	5	1.55	NCLSLT
NBB0112_2-25	25	2	12	60823.5	60823.5	0.03%					23	4	3.83	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%					40	7	3.15	NCLSLT
NBB0312_2-25	25	2	12	59102.8	59102.8	0.03%					40	7	3.67	NCLSLT
NBB0412_2-25	25	2	12	59526.7	59526.7	0.00%					51	9	4.95	NCLSLT
NBB0512_2-25	25	2	12	64754.7	64754.7	0.00%					51	9	4.60	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%					17	3	0.71	NCLSLT
NBB0712_2-25	25	2	12	62685.7	62685.7	0.00%					35	6	3.60	NCLSLT
NBB0812_2-25	25	2	12	62621.4	62621.4	0.01%					29	5	5.00	NCLSLT
NBB0912_2-25	25	2	12	63811.6	63811.6	0.01%					34	6	2.42	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%					22	3	1.55	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%					30	4	2.94	NCLSLT
NBB0218_2-25	25	2	18	83121.4	83121.4	0.01%					46	6	10.42	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%					30	4	3.96	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.00%					38	5	7.91	NCLSLT
NBB0518_2-25	25	2	18	94862.0	94862.0	0.05%					52	7	56.25	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%					22	3	1.50	NCLSLT
NBB0718_2-25	25	2	18	92041.2	92041.2	0.01%					46	6	27.67	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.00%					38	5	10.39	NCLSLT
NBB0918_2-25	25	2	18	92931.5	92931.5	0.01%					36	5	8.67	NCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%					10	2	0.52	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%					10	2	0.62	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%					10	2	0.73	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%					10	2	0.80	NCLSLT
NBB046_2-50	50	2	6	60651.7	60651.7	0.00%					10	2	1.08	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%					10	2	0.69	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%					10	2	0.67	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%					10	2	0.77	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%					10	2	1.03	NCLSLT
NBB096_2-50	50	2	6	60526.4	60526.4	0.00%					10	2	0.97	NCLSLT
NBB0012_2-50	50	2	12	117269.4	117269.4	0.00%					34	6	2.73	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%					17	3	2.00	NCLSLT
NBB0212_2-50	50	2	12	113901.0	113901.0	0.00%					28	5	6.69	NCLSLT
NBB0312_2-50	50	2	12	119784.4	119784.4	0.00%					28	5	4.39	NCLSLT
NBB0412_2-50	50	2	12	121921.7	121921.7	0.01%					17	3	5.82	NCLSLT
NBB0512_2-50	50	2	12	119153.5	119153.5	0.00%					29	5	3.28	NCLSLT
NBB0612_2-50	50	2	12	113553.7	113553.7	0.00%					28	5	2.42	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%					17	3	3.31	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%					34	6	6.04	NCLSLT
NBB0912_2-50	50	2	12	122296.0	122296.0	0.01%					34	6	4.89	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%					36	5	4.47	NCLSLT
NBB0118_2-50	50	2	18	178702.4	178702.4	0.00%					36	5	4.87	NCLSLT
NBB0218_2-50	50	2	18	169531.4	169531.4	0.00%					36	5	9.67	NCLSLT
NBB0318_2-50	50	2	18	180942.2	180942.2	0.01%					22	3	6.82	NCLSLT
NBB0418_2-50	50	2	18	181463.8	181463.8	0.00%					44	6	60.93	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%					30	4	6.40	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%					30	4	5.21	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%					22	3	6.11	NCLSLT
NBB0818_2-50	50	2	18	173342.1	173342.1	0.00%					52	7	19.07	NCLSLT
NBB0918_2-50	50	2	18	182743.9	182743.9	0.01%					22	3	9.24	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%					15	3	0.51	NCLSLT
NBB016_4-6	6	4	6	7250.9	7250.9	0.00%					20	4	1.07	NCLSLT
NBB026_4-6	6	4	6	7331.9	7331.9	0.03%					15	3	0.59	NCLSLT
NBB036_4-6	6	4	6	6717.6	6717.6	0.16%					15	3	0.59	NCLSLT
NBB046_4-6	6	4	6	5568.9	5568.9	0.00%					15	3	0.50	NCLSLT
NBB056_4-6	6	4	6	7986.1	7986.1	1.09%					15	3	1.57	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%					15	3	0.49	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%					10	2	0.23	NCLSLT
NBB086_4-6	6	4	6	5882.1	5882.1	0.32%					15	3	0.48	NCLSLT
NBB096_4-6	6	4	6	8521.1	8521.1	0.00%					10	2	0.41	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%					23	4	0.97	NCLSLT
NBB0112_4-6	6	4	12	15228.5	15228.5	0.00%					40	7	4.76	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%					34	6	2.55	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%					29	5	1.41	NCLSLT
NBB0412_4-6	6	4	12	12883.9	12883.9	0.00%					52	9	13.26	NCLSLT
NBB0512_4-6	6	4	12	15814.1	15814.1	0.04%					57	10	9.45	NCLSLT
NBB0612_4-6	6	4	12	12773.8	12773.8	0.00%					34	6	1.74	NCLSLT
NBB0712_4-6	6	4	12	14712.6	14712.6	0.00%					40	7	2.27	NCLSLT
NBB0812_4-6	6	4	12	12363.6	12363.6	0.00%					45	8	3.61	NCLSLT
NBB0912_4-6	6	4	12	14839.4	14839.4	0.02%					34	6	1.48	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%					38	5	6.13	NCLSLT
NBB0118_4-6	6	4	18	21716.4	21716.4	0.00%					52	7	18.91	NCLSLT
NBB0218_4-6	6	4	18	21436.5	21436.5	0.00%					60	8	6.52	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%					52	7	7.16	NCLSLT
NBB0418_4-6	6	4	18	19969.8	19969.8	0.00%					38	5	7.66	NCLSLT
NBB0518_4-6	6	4	18	23489.6	23489.6	0.03%					54	7	20.83	NCLSLT
NBB0618_4-6	6	4	18	19871.4	19871.4	0.02%					30	4	5.12	NCLSLT
NBB0718_4-6	6	4	18	22416.2	22416.2	0.00%					44	6	5.93	NCLSLT
NBB0818_4-6	6	4	18	18186.6	18186.6	0.00%					60	8	6.64	NCLSLT
NBB0918_4-6	6	4	18	22141.8	22141.8	0.00%					52	7	3.87	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%					10	2	0.81	NCLSLT
NBB016_4-12	12	4	6	15431.2	15431.2	0.03%					15	3	1.74	NCLSLT
NBB026_4-12	12	4	6	13158.9	13158.9	0.00%					15	3	0.88	NCLSLT
NBB036_4-12	12	4	6	12368.1	12368.1	0.07%					15	3	1.16	NCLSLT
NBB046_4-12	12	4	6	14371.1	14371.1	0.04%					15	3	0.99	NCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_4-12	12	4	6	14168.8	14168.8	0.00%					20	4	2.32	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%					15	3	0.41	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%					15	3	0.73	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%					15	3	0.69	NCLSLT
NBB096_4-12	12	4	6	13306.2	13306.2	0.19%					15	3	1.58	NCLSLT
NBB0012_4-12	12	4	12	24833.9	24833.9	0.10%					75	13	19.88	NCLSLT
NBB0112_4-12	12	4	12	28626.1	28626.1	0.00%					40	7	20.70	NCLSLT
NBB0212_4-12	12	4	12	26534.4	26534.4	0.00%					63	11	10.39	NCLSLT
NBB0312_4-12	12	4	12	25484.4	25484.4	0.00%					46	8	6.30	NCLSLT
NBB0412_4-12	12	4	12	27361.6	27361.6	0.00%					40	7	4.87	NCLSLT
NBB0512_4-12	12	4	12	27954.2	27954.2	0.00%					58	10	10.72	NCLSLT
NBB0612_4-12	12	4	12	24649.4	24649.4	0.13%					29	5	1.74	NCLSLT
NBB0712_4-12	12	4	12	26357.1	26357.1	0.00%					29	5	6.13	NCLSLT
NBB0812_4-12	12	4	12	28127.9	28127.9	0.00%					23	4	2.75	NCLSLT
NBB0912_4-12	12	4	12	28665.0	28665.0	0.06%					52	9	30.59	NCLSLT
NBB0018_4-12	12	4	18	38492.2	38492.2	-0.02%					60	8	62.84	NCLSLT
NBB0118_4-12	12	4	18	42094.4	42094.4	0.00%					46	6	50.11	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%					52	7	13.58	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%					52	7	19.93	NCLSLT
NBB0418_4-12	12	4	18	40754.9	40754.9	0.00%					38	5	15.18	NCLSLT
NBB0518_4-12	12	4	18	41198.3	41198.3	0.03%					30	4	17.52	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%					38	5	4.59	NCLSLT
NBB0718_4-12	12	4	18	41242.7	41242.7	0.00%					52	7	19.02	NCLSLT
NBB0818_4-12	12	4	18	42909.0	42909.0	0.02%					30	4	7.09	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	-0.01%					52	7	68.04	NCLSLT
NBB006_4-25	25	4	6	25609.0	25609.0	0.02%					20	4	3.50	NCLSLT
NBB016_4-25	25	4	6	29513.0	29513.0	0.08%					15	3	1.46	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%					15	3	3.54	NCLSLT
NBB036_4-25	25	4	6	26071.8	26071.8	0.05%					20	4	4.13	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%					10	2	0.56	NCLSLT
NBB056_4-25	25	4	6	30184.7	30184.7	0.05%					20	4	2.60	NCLSLT
NBB066_4-25	25	4	6	25397.8	25397.8	0.05%					10	2	0.70	NCLSLT
NBB076_4-25	25	4	6	27106.2	27106.2	0.05%					20	4	4.72	NCLSLT
NBB086_4-25	25	4	6	26279.6	26279.6	0.05%					15	3	1.36	NCLSLT
NBB096_4-25	25	4	6	27956.4	27956.4	0.00%					10	2	1.24	NCLSLT
NBB0012_4-25	25	4	12	53749.4	53749.4	0.00%					69	12	39.69	NCLSLT
NBB0112_4-25	25	4	12	56359.1	56359.1	0.00%					34	6	7.56	NCLSLT
NBB0212_4-25	25	4	12	53359.0	53359.0	0.03%					57	10	59.73	NCLSLT
NBB0312_4-25	25	4	12	54139.1	54139.1	0.02%					40	7	28.06	NCLSLT
NBB0412_4-25	25	4	12	54985.2	54985.2	0.01%					52	9	11.09	NCLSLT
NBB0512_4-25	25	4	12	57156.5	57156.5	0.06%					51	9	12.45	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%					29	5	4.44	NCLSLT
NBB0712_4-25	25	4	12	55613.4	55613.4	0.00%					40	7	53.29	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%					29	5	8.73	NCLSLT
NBB0912_4-25	25	4	12	54986.0	54986.0	0.04%					40	7	42.21	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.00%					38	5	34.45	NCLSLT
NBB0118_4-25	25	4	18	83918.6	83918.6	0.00%					30	4	11.90	NCLSLT
NBB0218_4-25	25	4	18	81001.2	81001.2	0.00%					30	4	57.10	NCLSLT
NBB0318_4-25	25	4	18	80534.2	80534.2	0.00%					46	6	30.27	NCLSLT
NBB0418_4-25	25	4	18	83348.5	83348.5	0.00%					30	4	4.65	NCLSLT
NBB0518_4-25	25	4	18	84460.1	84460.1	0.01%					60	8	69.80	NCLSLT
NBB0618_4-25	25	4	18	77417.4	77417.4	0.00%					44	6	8.94	NCLSLT
NBB0718_4-25	25	4	18	82788.6	82788.6	0.01%					46	6	108.86	NCLSLT
NBB0818_4-25	25	4	18	78524.1	78524.1	0.00%					52	7	15.99	NCLSLT
NBB0918_4-25	25	4	18	82454.2	82454.2	-0.01%					38	5	61.77	NCLSLT
NBB006_4-50	50	4	6	54640.8	54640.8	0.00%					15	3	1.91	NCLSLT
NBB016_4-50	50	4	6	55422.0	55422.0	0.01%					10	2	1.48	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%					15	3	2.88	NCLSLT
NBB036_4-50	50	4	6	55312.6	55312.6	0.08%					15	3	12.03	NCLSLT
NBB046_4-50	50	4	6	56935.8	56935.8	0.03%					15	3	7.97	NCLSLT
NBB056_4-50	50	4	6	57378.1	57378.1	0.01%					20	4	2.99	NCLSLT
NBB066_4-50	50	4	6	52874.7	52874.7	0.01%					15	3	2.46	NCLSLT
NBB076_4-50	50	4	6	51700.3	51700.3	0.05%					20	4	4.39	NCLSLT
NBB086_4-50	50	4	6	52926.5	52926.5	0.01%					10	2	2.34	NCLSLT
NBB096_4-50	50	4	6	60170.2	60170.2	0.01%					10	2	1.46	NCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_4-50	50	4	12	110453.6	110453.6	0.00%					34	6	42.77	NCLSLT
NBB0112_4-50	50	4	12	108483.7	108483.7	0.01%					45	8	14.26	NCLSLT
NBB0212_4-50	50	4	12	108020.3	108020.3	0.00%					28	5	10.62	NCLSLT
NBB0312_4-50	50	4	12	110201.1	110201.1	0.00%					35	6	20.58	NCLSLT
NBB0412_4-50	50	4	12	109734.3	109734.3	0.01%					57	10	106.37	NCLSLT
NBB0512_4-50	50	4	12	112014.1	112014.1	0.00%					28	5	6.28	NCLSLT
NBB0612_4-50	50	4	12	104018.2	104018.2	0.00%					17	3	3.31	NCLSLT
NBB0712_4-50	50	4	12	106648.1	106648.1	0.00%					74	13	117.80	NCLSLT
NBB0812_4-50	50	4	12	106520.5	106520.5	0.00%					23	4	5.72	NCLSLT
NBB0912_4-50	50	4	12	114387.6	114387.6	0.00%					45	8	25.66	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.00%					30	4	26.99	NCLSLT
NBB0118_4-50	50	4	18	161829.7	161829.7	0.00%					30	4	17.07	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.00%					30	4	30.58	NCLSLT
NBB0318_4-50	50	4	18	163416.4	163416.4	0.01%					44	6	122.37	NCLSLT
NBB0418_4-50	50	4	18	166605.7	166605.7	0.00%					82	11	186.42	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.00%					38	5	19.81	NCLSLT
NBB0618_4-50	50	4	18	156361.5	156361.5	0.00%					52	7	21.83	NCLSLT
NBB0718_4-50	50	4	18	161801.2	161801.2	0.00%					54	7	110.41	NCLSLT
NBB0818_4-50	50	4	18	157360.6	157360.6	0.00%					52	7	13.69	NCLSLT
NBB0918_4-50	50	4	18	168536.5	168536.5	0.00%					30	4	25.42	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%					15	3	0.56	NCLSLT
NBB016_6-6	6	6	6	7364.4	7364.4	0.06%					15	3	2.07	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%					20	4	0.75	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%					20	4	0.76	NCLSLT
NBB046_6-6	6	6	6	8168.9	8168.9	0.00%					15	3	1.82	NCLSLT
NBB056_6-6	6	6	6	8078.2	8078.2	0.13%					20	4	1.15	NCLSLT
NBB066_6-6	6	6	6	6775.2	6775.2	0.01%					20	4	0.90	NCLSLT
NBB076_6-6	6	6	6	7827.1	7827.1	0.00%					15	3	0.75	NCLSLT
NBB086_6-6	6	6	6	6726.0	6726.0	0.00%					20	4	2.00	NCLSLT
NBB096_6-6	6	6	6	7679.8	7679.8	1.02%					20	4	4.11	NCLSLT
NBB0012_6-6	6	6	12	12202.8	12202.8	0.00%					34	6	1.39	NCLSLT
NBB0112_6-6	6	6	12	14401.9	14401.9	0.00%					68	12	7.36	NCLSLT
NBB0212_6-6	6	6	12	14375.1	14375.1	0.06%					23	4	2.78	NCLSLT
NBB0312_6-6	6	6	12	14878.2	14878.2	0.00%					29	5	2.47	NCLSLT
NBB0412_6-6	6	6	12	15150.6	15150.6	0.09%					40	7	6.47	NCLSLT
NBB0512_6-6	6	6	12	14847.2	14847.2	0.07%					34	6	8.56	NCLSLT
NBB0612_6-6	6	6	12	12876.5	12876.5	0.00%					46	8	6.76	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%					29	5	5.73	NCLSLT
NBB0812_6-6	6	6	12	12710.6	12710.6	0.09%					23	4	3.25	NCLSLT
NBB0912_6-6	6	6	12	14404.3	14404.3	0.04%					51	9	10.49	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%					30	4	2.51	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%					52	7	8.72	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%					46	6	7.13	NCLSLT
NBB0418_6-6	6	6	18	22533.2	22533.2	0.04%					30	4	14.06	NCLSLT
NBB0518_6-6	6	6	18	22510.3	22510.3	0.00%					68	9	10.69	NCLSLT
NBB0618_6-6	6	6	18	20310.7	20310.7	0.02%					44	6	18.20	NCLSLT
NBB0718_6-6	6	6	18	22143.3	22143.3	0.09%					44	6	8.46	NCLSLT
NBB0818_6-6	6	6	18	20344.4	20344.4	0.05%					54	7	11.50	NCLSLT
NBB0918_6-6	6	6	18	21824.3	21824.3	0.02%					68	9	37.99	NCLSLT
NBB006_6-12	12	6	6	12851.3	12851.3	0.17%					20	4	1.61	NCLSLT
NBB016_6-12	12	6	6	13175.9	13175.9	0.09%					10	2	1.64	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%					20	4	1.65	NCLSLT
NBB036_6-12	12	6	6	13037.8	13037.8	0.15%					15	3	1.18	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%					20	4	1.28	NCLSLT
NBB056_6-12	12	6	6	12410.7	12410.7	0.00%					15	3	1.06	NCLSLT
NBB066_6-12	12	6	6	11727.7	11727.7	0.00%					20	4	1.53	NCLSLT
NBB076_6-12	12	6	6	13651.8	13651.8	0.05%					15	3	6.05	NCLSLT
NBB086_6-12	12	6	6	13562.5	13562.5	0.25%					20	4	3.08	NCLSLT
NBB096_6-12	12	6	6	14426.6	14426.6	0.00%					20	4	2.24	NCLSLT
NBB0012_6-12	12	6	12	24289.2	24289.2	0.00%					46	8	8.14	NCLSLT
NBB0112_6-12	12	6	12	25782.9	25782.9	0.00%					57	10	14.82	NCLSLT
NBB0212_6-12	12	6	12	24290.4	24290.4	0.01%					57	10	50.07	NCLSLT
NBB0312_6-12	12	6	12	26662.3	26662.3	0.00%					46	8	6.80	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%					23	4	3.96	NCLSLT
NBB0512_6-12	12	6	12	26407.6	26407.6	0.00%					57	10	22.84	NCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0612_6-12	12	6	12	23721.8	23721.8	0.00%					46	8	11.18	NCLSLT
NBB0712_6-12	12	6	12	28198.8	28198.8	0.01%					46	8	50.83	NCLSLT
NBB0812_6-12	12	6	12	26072.8	26072.8	0.00%					57	10	32.47	NCLSLT
NBB0912_6-12	12	6	12	27503.9	27503.9	0.00%					68	12	37.23	NCLSLT
NBB0018_6-12	12	6	18	36608.8	36608.8	0.00%					60	8	23.49	NCLSLT
NBB0118_6-12	12	6	18	41391.9	41391.9	0.03%					38	5	34.32	NCLSLT
NBB0218_6-12	12	6	18	37074.7	37074.7	0.00%					74	10	69.43	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%					46	6	16.09	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%					52	7	12.64	NCLSLT
NBB0518_6-12	12	6	18	40708.1	40708.1	0.03%					74	10	29.90	NCLSLT
NBB0618_6-12	12	6	18	37562.0	37562.0	0.00%					60	8	100.47	NCLSLT
NBB0718_6-12	12	6	18	41762.6	41762.6	-0.02%					54	7	136.67	NCLSLT
NBB0818_6-12	12	6	18	39695.1	39695.1	-0.01%					52	7	125.46	NCLSLT
NBB0918_6-12	12	6	18	41490.9	41490.9	0.00%					52	7	87.53	NCLSLT
NBB006_6-25	25	6	6	25736.7	25736.7	0.03%					15	3	22.26	NCLSLT
NBB016_6-25	25	6	6	25441.2	25441.2	0.01%					15	3	5.24	NCLSLT
NBB026_6-25	25	6	6	26826.7	26826.7	0.00%					15	3	2.31	NCLSLT
NBB036_6-25	25	6	6	26896.3	26896.3	0.11%					15	3	15.57	NCLSLT
NBB046_6-25	25	6	6	28616.8	28616.8	0.09%					25	5	41.68	NCLSLT
NBB056_6-25	25	6	6	26354.1	26354.1	0.03%					15	3	9.43	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%					20	4	3.48	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%					20	4	6.82	NCLSLT
NBB086_6-25	25	6	6	26723.8	26723.8	0.03%					25	5	22.19	NCLSLT
NBB096_6-25	25	6	6	26421.3	26421.3	0.02%					20	4	3.89	NCLSLT
NBB0012_6-25	25	6	12	52547.0	52547.0	0.00%					57	10	121.44	NCLSLT
NBB0112_6-25	25	6	12	52730.5	52730.5	0.01%					57	10	154.15	NCLSLT
NBB0212_6-25	25	6	12	54074.3	54074.3	-0.01%					46	8	35.23	NCLSLT
NBB0312_6-25	25	6	12	52566.7	52566.7	0.02%					63	11	196.99	NCLSLT
NBB0412_6-25	25	6	12	56122.0	56122.0	0.00%					46	8	180.44	NCLSLT
NBB0512_6-25	25	6	12	51913.9	51913.9	0.02%					40	7	81.44	NCLSLT
NBB0612_6-25	25	6	12	51037.6	51037.6	0.00%					51	9	11.72	NCLSLT
NBB0712_6-25	25	6	12	52857.6	52857.6	0.04%					52	9	93.36	NCLSLT
NBB0812_6-25	25	6	12	51278.6	51278.6	0.01%					46	8	43.23	NCLSLT
NBB0912_6-25	25	6	12	53721.2	53721.2	0.01%					29	5	46.69	NCLSLT
NBB0018_6-25	25	6	18	76593.7	76593.7	-0.01%					30	4	164.81	NCLSLT
NBB0118_6-25	25	6	18	79519.5	79519.5	0.00%					76	10	196.78	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.00%					44	6	66.28	NCLSLT
NBB0318_6-25	25	6	18	80003.1	80003.1	-0.01%					60	8	431.48	NCLSLT
NBB0418_6-25	25	6	18	85071.8	85071.8	0.00%					60	8	358.03	NCLSLT
NBB0518_6-25	25	6	18	81136.4	81136.4	0.00%					46	6	130.66	NCLSLT
NBB0618_6-25	25	6	18	76379.8	76379.8	0.00%					30	4	20.08	NCLSLT
NBB0718_6-25	25	6	18	77902.8	77902.8	0.00%					76	10	260.17	NCLSLT
NBB0818_6-25	25	6	18	75253.4	75253.4	0.02%					52	7	138.53	NCLSLT
NBB0918_6-25	25	6	18	81476.8	81476.8	0.01%					38	5	74.41	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%					20	4	8.81	NCLSLT
NBB016_6-50	50	6	6	50711.5	50711.5	0.05%					10	2	11.15	NCLSLT
NBB026_6-50	50	6	6	52249.4	52249.4	0.03%					15	3	33.87	NCLSLT
NBB036_6-50	50	6	6	51745.7	51745.7	0.00%					15	3	8.16	NCLSLT
NBB046_6-50	50	6	6	54083.4	54083.4	0.01%					15	3	26.04	NCLSLT
NBB056_6-50	50	6	6	52838.4	52838.4	0.03%					15	3	20.93	NCLSLT
NBB066_6-50	50	6	6	52053.6	52053.6	0.01%					25	5	43.65	NCLSLT
NBB076_6-50	50	6	6	54031.6	54031.6	0.02%					10	2	2.39	NCLSLT
NBB086_6-50	50	6	6	50947.9	50947.9	0.00%					25	5	35.03	NCLSLT
NBB096_6-50	50	6	6	50716.3	50716.3	0.01%					15	3	8.42	NCLSLT
NBB0012_6-50	50	6	12	102544.9	102544.9	0.00%					40	7	57.60	NCLSLT
NBB0112_6-50	50	6	12	101600.2	101600.2	0.01%					34	6	52.22	NCLSLT
NBB0212_6-50	50	6	12	105225.7	105225.7	0.00%					40	7	187.97	NCLSLT
NBB0312_6-50	50	6	12	102659.9	102659.9	0.00%					52	9	78.24	NCLSLT
NBB0412_6-50	50	6	12	109849.0	109849.0	-0.01%					35	6	123.79	NCLSLT
NBB0512_6-50	50	6	12	105517.1	105517.1	0.03%					51	9	123.12	NCLSLT
NBB0612_6-50	50	6	12	102197.7	102197.7	0.00%					63	11	233.24	NCLSLT
NBB0712_6-50	50	6	12	107652.7	107652.7	0.01%					62	11	139.80	NCLSLT
NBB0812_6-50	50	6	12	100000.8	100000.8	0.02%					46	8	92.77	NCLSLT
NBB0912_6-50	50	6	12	102427.6	102427.6	0.00%					52	9	113.14	NCLSLT
NBB0018_6-50	50	6	18	152953.8	152953.8	0.00%					60	8	211.79	NCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_6-50	50	6	18	151115.4	151115.4	0.00%					44	6	126.16	NCLSLT
NBB0218_6-50	50	6	18	154645.2	154645.2	0.00%					46	6	237.09	NCLSLT
NBB0318_6-50	50	6	18	154349.1	154349.1	0.00%					38	5	89.50	NCLSLT
NBB0418_6-50	50	6	18	164991.6	164991.6	0.00%					90	12	399.56	NCLSLT
NBB0518_6-50	50	6	18	155565.3	155565.3	0.01%					68	9	289.53	NCLSLT
NBB0618_6-50	50	6	18	154602.2	154602.2	0.03%					30	4	221.81	NCLSLT
NBB0718_6-50	50	6	18	159214.2	159214.2	0.00%					60	8	225.25	NCLSLT
NBB0818_6-50	50	6	18	151165.8	151165.8	0.00%					46	6	107.95	NCLSLT
NBB0918_6-50	50	6	18	154285.6	154285.6	0.00%					38	5	104.39	NCLSLT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.46	TCHSHT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.46	TCHSHT
AAA016_2-6	6	2	6	12283.2	12283.2	5.46%					10	2	0.43	TCHSHT
AAA026_2-6	6	2	6	16017.5	16017.5	6.62%					20	4	0.54	TCHSHT
AAA036_2-6	6	2	6	21940015117.5	21940015316.9	100.00%					10	2	0.24	TCHSHT
AAA046_2-6	6	2	6	17345.2	17345.2	0.00%					10	2	0.27	TCHSHT
AAA056_2-6	6	2	6	18337.5	18337.5	7.39%					10	2	0.32	TCHSHT
AAA066_2-6	6	2	6	16790.4	16790.4	0.00%					10	2	0.30	TCHSHT
AAA076_2-6	6	2	6	2400017492.4	2400017493.2	100.00%					10	2	0.27	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%					10	2	0.19	TCHSHT
AAA096_2-6	6	2	6	13475.9	13475.9	2.42%					20	4	0.44	TCHSHT
AAA0012_2-6	6	2	12	24646.1	24646.1	0.35%					80	14	2.89	TCHSHT
AAA0112_2-6	6	2	12	24252.3	24252.3	0.00%					52	9	3.77	TCHSHT
AAA0212_2-6	6	2	12	27472.1	27472.1	0.00%					29	5	1.26	TCHSHT
AAA0412_2-6	6	2	12	28740.8	28740.8	0.63%					58	10	3.15	TCHSHT
AAA0512_2-6	6	2	12	32629.4	32629.4	2.92%					46	8	4.04	TCHSHT
AAA0612_2-6	6	2	12	29175.1	29175.1	1.13%					63	11	3.76	TCHSHT
AAA0712_2-6	6	2	12	27469.7	27469.7	0.06%					52	9	2.08	TCHSHT
AAA0812_2-6	6	2	12	22547.3	22547.3	0.23%					46	8	1.38	TCHSHT
AAA0912_2-6	6	2	12	27831.3	27831.3	0.26%					63	11	4.05	TCHSHT
AAA0018_2-6	6	2	18	33874.9	33874.9	0.07%					66	9	6.95	TCHSHT
AAA0118_2-6	6	2	18	34548.3	34548.3	1.04%					82	11	9.63	TCHSHT
AAA0218_2-6	6	2	18	40191.0	40191.0	1.25%					46	6	7.25	TCHSHT
AAA0418_2-6	6	2	18	37212.7	37212.7	0.00%					82	11	6.00	TCHSHT
AAA0518_2-6	6	2	18	42731.6	42731.6	0.00%					90	12	6.11	TCHSHT
AAA0618_2-6	6	2	18	39895.0	39895.0	1.07%					68	9	3.55	TCHSHT
AAA0718_2-6	6	2	18	39698.7	39698.7	0.19%					82	11	6.44	TCHSHT
AAA0818_2-6	6	2	18	32109.2	32109.2	0.27%					38	5	1.65	TCHSHT
AAA0918_2-6	6	2	18	36550.4	36550.4	0.75%					90	12	9.66	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%					10	2	0.38	TCHSHT
AAA016_2-12	12	2	6	25835.3	25835.3	1.24%					15	3	0.82	TCHSHT
AAA026_2-12	12	2	6	27180.2	27180.2	0.94%					10	2	0.73	TCHSHT
AAA036_2-12	12	2	6	30163.0	30163.0	1.13%					15	3	1.19	TCHSHT
AAA046_2-12	12	2	6	26132.4	26132.4	0.80%					15	3	0.71	TCHSHT
AAA056_2-12	12	2	6	30284.3	30284.3	1.39%					10	2	0.86	TCHSHT
AAA066_2-12	12	2	6	26557.1	26557.1	1.42%					10	2	0.52	TCHSHT
AAA076_2-12	12	2	6	27066.4	27066.4	3.58%					10	2	0.33	TCHSHT
AAA086_2-12	12	2	6	24651.5	24651.5	0.28%					20	4	1.05	TCHSHT
AAA096_2-12	12	2	6	28361.3	28361.3	0.76%					25	5	1.16	TCHSHT
AAA0012_2-12	12	2	12	42085.1	42085.1	0.00%					57	10	10.41	TCHSHT
AAA0112_2-12	12	2	12	42572.5	42572.5	0.77%					40	7	3.64	TCHSHT
AAA0212_2-12	12	2	12	45267.9	45267.9	0.91%					57	10	8.44	TCHSHT
AAA0312_2-12	12	2	12	53913.6	53913.6	0.62%					81	14	15.78	TCHSHT
AAA0412_2-12	12	2	12	45666.4	45666.4	0.22%					58	10	3.29	TCHSHT
AAA0512_2-12	12	2	12	53976.4	53976.4	1.43%					46	8	31.67	TCHSHT
AAA0612_2-12	12	2	12	46722.5	46722.5	0.58%					51	9	7.69	TCHSHT
AAA0712_2-12	12	2	12	49621.1	49621.1	0.18%					69	12	7.71	TCHSHT
AAA0812_2-12	12	2	12	42561.0	42561.0	1.01%					46	8	5.42	TCHSHT
AAA0912_2-12	12	2	12	52576.5	52576.5	1.17%					52	9	19.59	TCHSHT
AAA0118_2-12	12	2	18	63419.0	63419.0	0.56%					46	6	11.95	TCHSHT
AAA0218_2-12	12	2	18	66855.0	66855.0	0.27%					68	9	26.01	TCHSHT
AAA0318_2-12	12	2	18	76508.0	76508.0	0.07%					106	14	21.63	TCHSHT
AAA0418_2-12	12	2	18	68457.0	68457.0	0.27%					84	11	24.84	TCHSHT
AAA0518_2-12	12	2	18	75353.2	75353.2	0.73%					54	7	19.04	TCHSHT
AAA0618_2-12	12	2	18	67229.9	67229.9	0.19%					98	13	34.19	TCHSHT
AAA0718_2-12	12	2	18	68327.0	68327.0	0.08%					44	6	5.53	TCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0818_2-12	12	2	18	66024.2	66024.2	0.54%					90	12	24.90	TCHSHT
AAA0918_2-12	12	2	18	74830.1	74830.1	0.71%					90	12	75.36	TCHSHT
AAA006_2-25	25	2	6	49702.0	49702.0	0.94%					10	2	1.88	TCHSHT
AAA016_2-25	25	2	6	50428.5	50428.5	0.95%					10	2	1.04	TCHSHT
AAA026_2-25	25	2	6	53905.9	53905.9	0.94%					15	3	2.81	TCHSHT
AAA036_2-25	25	2	6	55643.4	55643.4	1.40%					10	2	1.04	TCHSHT
AAA046_2-25	25	2	6	56247.0	56247.0	0.11%					10	2	0.88	TCHSHT
AAA056_2-25	25	2	6	59414.4	59414.4	1.04%					15	3	2.29	TCHSHT
AAA066_2-25	25	2	6	47786.3	47786.3	1.01%					10	2	0.71	TCHSHT
AAA076_2-25	25	2	6	53574.7	53574.7	0.50%					15	3	2.37	TCHSHT
AAA086_2-25	25	2	6	56941.6	56941.6	0.55%					15	3	2.04	TCHSHT
AAA096_2-25	25	2	6	63525.9	63525.9	1.42%					15	3	2.78	TCHSHT
AAA0012_2-25	25	2	12	90620.2	90620.2	0.22%					51	9	28.41	TCHSHT
AAA0112_2-25	25	2	12	96306.6	96306.6	0.51%					46	8	19.41	TCHSHT
AAA0212_2-25	25	2	12	93105.7	93105.7	0.05%					98	17	69.61	TCHSHT
AAA0312_2-25	25	2	12	97003.0	97003.0	0.29%					51	9	39.92	TCHSHT
AAA0412_2-25	25	2	12	96207.4	96207.4	0.33%					57	10	32.41	TCHSHT
AAA0512_2-25	25	2	12	108914.5	108914.5	0.10%					92	16	42.26	TCHSHT
AAA0612_2-25	25	2	12	92040.8	92040.8	0.02%					63	11	11.15	TCHSHT
AAA0712_2-25	25	2	12	97331.6	97331.6	0.27%					40	7	23.21	TCHSHT
AAA0812_2-25	25	2	12	101026.3	101026.3	0.14%					69	12	47.14	TCHSHT
AAA0912_2-25	25	2	12	106259.5	106259.5	0.20%					51	9	45.23	TCHSHT
AAA0018_2-25	25	2	18	130719.4	130719.4	0.10%					112	15	75.61	TCHSHT
AAA0118_2-25	25	2	18	134880.2	134880.2	0.33%					60	8	38.14	TCHSHT
AAA0218_2-25	25	2	18	132674.0	132674.0	-0.06%					60	8	85.51	TCHSHT
AAA0318_2-25	25	2	18	145073.8	145073.8	0.26%					38	5	40.37	TCHSHT
AAA0418_2-25	25	2	18	139474.4	139474.4	0.06%					60	8	78.15	TCHSHT
AAA0518_2-25	25	2	18	152158.7	152158.7	0.20%					54	7	95.60	TCHSHT
AAA0618_2-25	25	2	18	128971.7	128971.7	0.00%					46	6	21.24	TCHSHT
AAA0718_2-25	25	2	18	143840.4	143840.4	0.11%					82	11	168.94	TCHSHT
AAA0818_2-25	25	2	18	141701.9	141701.9	0.09%					90	12	108.48	TCHSHT
AAA0918_2-25	25	2	18	152915.9	152915.9	0.35%					68	9	101.51	TCHSHT
AAA006_2-50	50	2	6	97169.9	97169.9	0.10%					10	2	2.11	TCHSHT
AAA016_2-50	50	2	6	100449.8	100449.8	0.14%					20	4	2.46	TCHSHT
AAA026_2-50	50	2	6	98867.1	98867.1	0.28%					20	4	5.73	TCHSHT
AAA036_2-50	50	2	6	106336.6	106336.6	0.21%					15	3	6.31	TCHSHT
AAA046_2-50	50	2	6	112958.5	112958.5	0.25%					20	4	15.17	TCHSHT
AAA056_2-50	50	2	6	110329.6	110329.6	0.08%					15	3	11.61	TCHSHT
AAA066_2-50	50	2	6	99153.1	99153.1	0.16%					10	2	3.59	TCHSHT
AAA076_2-50	50	2	6	106540.2	106540.2	0.28%					15	3	16.80	TCHSHT
AAA086_2-50	50	2	6	102958.0	102958.0	0.07%					20	4	7.49	TCHSHT
AAA096_2-50	50	2	6	107963.7	107963.7	0.08%					15	3	2.43	TCHSHT
AAA0012_2-50	50	2	12	179990.7	179990.7	0.08%					51	9	67.98	TCHSHT
AAA0112_2-50	50	2	12	186776.5	186776.5	0.05%					51	9	41.75	TCHSHT
AAA0212_2-50	50	2	12	181184.7	181184.7	0.19%					57	10	68.33	TCHSHT
AAA0312_2-50	50	2	12	192713.6	192713.6	0.09%					46	8	40.55	TCHSHT
AAA0412_2-50	50	2	12	200928.7	200928.7	0.04%					69	12	139.44	TCHSHT
AAA0512_2-50	50	2	12	198025.8	198025.8	0.07%					69	12	79.59	TCHSHT
AAA0612_2-50	50	2	12	177392.1	177392.1	0.09%					52	9	39.55	TCHSHT
AAA0712_2-50	50	2	12	190603.6	190603.6	0.12%					75	13	175.08	TCHSHT
AAA0812_2-50	50	2	12	183302.8	183302.8	0.09%					34	6	55.94	TCHSHT
AAA0912_2-50	50	2	12	195315.8	195315.8	0.09%					86	15	188.17	TCHSHT
AAA0018_2-50	50	2	18	262034.3	262034.3	0.06%					52	7	73.88	TCHSHT
AAA0118_2-50	50	2	18	270368.6	270368.6	0.05%					30	4	57.14	TCHSHT
AAA0218_2-50	50	2	18	261148.3	261148.3	0.09%					60	8	124.13	TCHSHT
AAA0318_2-50	50	2	18	282381.9	282381.9	0.04%					68	9	84.35	TCHSHT
AAA0418_2-50	50	2	18	292580.6	292580.6	-0.06%					98	13	362.32	TCHSHT
AAA0518_2-50	50	2	18	288016.1	288016.1	0.10%					44	6	101.41	TCHSHT
AAA0618_2-50	50	2	18	259622.1	259622.1	0.07%					60	8	67.29	TCHSHT
AAA0718_2-50	50	2	18	274209.8	274209.8	0.09%					38	5	94.84	TCHSHT
AAA0818_2-50	50	2	18	265987.4	265987.4	0.08%					46	6	94.99	TCHSHT
AAA0918_2-50	50	2	18	284003.6	284003.6	-0.04%					68	9	119.67	TCHSHT
AAA006_4-6	6	4	6	9748.7	9748.7	1.13%					15	3	0.52	TCHSHT
AAA016_4-6	6	4	6	12565.7	12565.7	2.43%					25	5	2.10	TCHSHT
AAA026_4-6	6	4	6	12068.0	12068.0	0.00%					20	4	0.68	TCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA036_4-6	6	4	6	12615.1	12615.1	0.00%					15	3	0.49	TCHSHT
AAA046_4-6	6	4	6	10915.4	10915.4	2.07%					15	3	1.06	TCHSHT
AAA056_4-6	6	4	6	16347.9	16347.9	5.88%					15	3	0.72	TCHSHT
AAA066_4-6	6	4	6	12432.1	12432.1	1.16%					20	4	0.67	TCHSHT
AAA076_4-6	6	4	6	14305.2	14305.2	3.77%					15	3	0.59	TCHSHT
AAA086_4-6	6	4	6	10059.2	10059.2	1.20%					20	4	0.47	TCHSHT
AAA096_4-6	6	4	6	15047.3	15047.3	1.84%					20	4	0.91	TCHSHT
AAA0012_4-6	6	4	12	17824.5	17824.5	0.00%					52	9	2.57	TCHSHT
AAA0112_4-6	6	4	12	25412.6	25412.6	0.88%					46	8	11.89	TCHSHT
AAA0212_4-6	6	4	12	23301.3	23301.3	1.07%					63	11	7.44	TCHSHT
AAA0312_4-6	6	4	12	25594.1	25594.1	0.16%					46	8	2.02	TCHSHT
AAA0412_4-6	6	4	12	23547.9	23547.9	0.35%					51	9	10.44	TCHSHT
AAA0512_4-6	6	4	12	30409.9	30409.9	0.51%					46	8	5.36	TCHSHT
AAA0612_4-6	6	4	12	21926.0	21926.0	1.65%					29	5	1.79	TCHSHT
AAA0712_4-6	6	4	12	24512.0	24512.0	0.24%					46	8	4.17	TCHSHT
AAA0812_4-6	6	4	12	21130.5	21130.5	0.00%					75	13	11.28	TCHSHT
AAA0912_4-6	6	4	12	26054.8	26054.8	0.22%					40	7	1.99	TCHSHT
AAA0018_4-6	6	4	18	27403.0	27403.0	0.10%					90	12	9.14	TCHSHT
AAA0118_4-6	6	4	18	33678.0	33678.0	1.07%					54	7	28.02	TCHSHT
AAA0218_4-6	6	4	18	33333.2	33333.2	0.47%					52	7	8.58	TCHSHT
AAA0318_4-6	6	4	18	38973.9	38973.9	0.12%					98	13	19.67	TCHSHT
AAA0418_4-6	6	4	18	35050.2	35050.2	0.44%					76	10	29.92	TCHSHT
AAA0518_4-6	6	4	18	43000.9	43000.9	0.47%					68	9	11.69	TCHSHT
AAA0618_4-6	6	4	18	33595.7	33595.7	0.78%					60	8	10.75	TCHSHT
AAA0718_4-6	6	4	18	37170.1	37170.1	0.66%					60	8	12.21	TCHSHT
AAA0818_4-6	6	4	18	27977.6	27977.6	0.16%					60	8	14.27	TCHSHT
AAA0918_4-6	6	4	18	38518.6	38518.6	0.70%					52	7	6.13	TCHSHT
AAA006_4-12	12	4	6	20488.7	20488.7	0.29%					20	4	2.11	TCHSHT
AAA016_4-12	12	4	6	23838.0	23838.0	0.33%					25	5	5.23	TCHSHT
AAA026_4-12	12	4	6	19040.6	19040.6	1.17%					20	4	1.30	TCHSHT
AAA036_4-12	12	4	6	21020.1	21020.1	1.42%					25	5	2.71	TCHSHT
AAA046_4-12	12	4	6	23054.3	23054.3	0.00%					20	4	2.45	TCHSHT
AAA056_4-12	12	4	6	24490.5	24490.5	1.31%					15	3	1.33	TCHSHT
AAA066_4-12	12	4	6	21551.8	21551.8	1.68%					20	4	2.66	TCHSHT
AAA076_4-12	12	4	6	22481.5	22481.5	4.60%					20	4	16.37	TCHSHT
AAA086_4-12	12	4	6	22840.2	22840.2	0.71%					15	3	1.35	TCHSHT
AAA096_4-12	12	4	6	22126.2	22126.2	0.00%					20	4	2.22	TCHSHT
AAA0012_4-12	12	4	12	36608.0	36608.0	0.07%					68	12	39.25	TCHSHT
AAA0112_4-12	12	4	12	42012.0	42012.0	0.71%					74	13	73.63	TCHSHT
AAA0212_4-12	12	4	12	37436.2	37436.2	0.14%					74	13	22.05	TCHSHT
AAA0312_4-12	12	4	12	40916.0	40916.0	0.08%					57	10	18.49	TCHSHT
AAA0412_4-12	12	4	12	42668.4	42668.4	0.37%					63	11	28.33	TCHSHT
AAA0512_4-12	12	4	12	46299.9	46299.9	0.48%					74	13	40.54	TCHSHT
AAA0612_4-12	12	4	12	40384.8	40384.8	0.91%					46	8	23.54	TCHSHT
AAA0712_4-12	12	4	12	43084.0	43084.0	0.46%					41	7	40.87	TCHSHT
AAA0812_4-12	12	4	12	41907.1	41907.1	0.20%					29	5	3.72	TCHSHT
AAA0912_4-12	12	4	12	45137.8	45137.8	0.32%					63	11	50.82	TCHSHT
AAA0018_4-12	12	4	18	54739.5	54739.5	0.32%					82	11	57.26	TCHSHT
AAA0118_4-12	12	4	18	61395.8	61395.8	0.57%					60	8	97.80	TCHSHT
AAA0218_4-12	12	4	18	53992.6	53992.6	0.35%					46	6	16.65	TCHSHT
AAA0318_4-12	12	4	18	62549.3	62549.3	0.03%					68	9	41.66	TCHSHT
AAA0418_4-12	12	4	18	63420.3	63420.3	0.19%					54	7	72.80	TCHSHT
AAA0518_4-12	12	4	18	67126.6	67126.6	0.24%					76	10	38.03	TCHSHT
AAA0618_4-12	12	4	18	59535.7	59535.7	0.12%					60	8	19.57	TCHSHT
AAA0718_4-12	12	4	18	66224.3	66224.3	0.17%					92	12	169.57	TCHSHT
AAA0818_4-12	12	4	18	63662.8	63662.8	0.35%					82	11	51.65	TCHSHT
AAA0918_4-12	12	4	18	64148.1	64148.1	0.65%					68	9	60.27	TCHSHT
AAA006_4-25	25	4	6	37846.8	37846.8	0.34%					15	3	5.20	TCHSHT
AAA016_4-25	25	4	6	46446.7	46446.7	0.66%					20	4	8.49	TCHSHT
AAA026_4-25	25	4	6	43949.4	43949.4	1.03%					15	3	11.89	TCHSHT
AAA036_4-25	25	4	6	43623.8	43623.8	1.02%					15	3	9.14	TCHSHT
AAA046_4-25	25	4	6	44865.5	44865.5	1.46%					20	4	16.20	TCHSHT
AAA056_4-25	25	4	6	48182.9	48182.9	0.39%					20	4	20.02	TCHSHT
AAA066_4-25	25	4	6	38422.9	38422.9	0.27%					15	3	1.35	TCHSHT
AAA076_4-25	25	4	6	43882.2	43882.2	0.24%					15	3	12.76	TCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA086_4-25	25	4	6	41015.4	41015.4	1.41%					20	4	5.06	TCHSHT
AAA096_4-25	25	4	6	46444.4	46444.4	0.29%					20	4	13.12	TCHSHT
AAA0012_4-25	25	4	12	75549.2	75549.2	0.04%					74	13	81.66	TCHSHT
AAA0112_4-25	25	4	12	84322.7	84322.7	0.43%					86	15	221.25	TCHSHT
AAA0212_4-25	25	4	12	79871.5	79871.5	0.07%					70	12	173.78	TCHSHT
AAA0312_4-25	25	4	12	83997.4	83997.4	0.15%					52	9	77.19	TCHSHT
AAA0412_4-25	25	4	12	84415.9	84415.9	0.08%					75	13	113.36	TCHSHT
AAA0512_4-25	25	4	12	87683.7	87683.7	0.30%					63	11	101.11	TCHSHT
AAA0612_4-25	25	4	12	74421.5	74421.5	0.30%					63	11	46.88	TCHSHT
AAA0712_4-25	25	4	12	84289.8	84289.8	-0.03%					52	9	49.72	TCHSHT
AAA0812_4-25	25	4	12	79224.9	79224.9	0.29%					75	13	140.38	TCHSHT
AAA0912_4-25	25	4	12	84979.3	84979.3	0.10%					74	13	45.98	TCHSHT
AAA0018_4-25	25	4	18	109801.5	109801.5	0.04%					82	11	144.75	TCHSHT
AAA0118_4-25	25	4	18	122315.1	122315.1	0.17%					68	9	218.93	TCHSHT
AAA0218_4-25	25	4	18	118474.6	118474.6	0.06%					106	14	285.36	TCHSHT
AAA0318_4-25	25	4	18	122361.2	122361.2	0.05%					76	10	101.27	TCHSHT
AAA0418_4-25	25	4	18	124994.6	124994.6	0.10%					76	10	119.40	TCHSHT
AAA0518_4-25	25	4	18	127008.7	127008.7	0.32%					106	14	179.54	TCHSHT
AAA0618_4-25	25	4	18	111117.8	111117.8	0.09%					68	9	71.15	TCHSHT
AAA0718_4-25	25	4	18	122911.0	122911.0	0.06%					68	9	64.06	TCHSHT
AAA0818_4-25	25	4	18	113116.7	113116.7	-0.02%					74	10	121.80	TCHSHT
AAA0918_4-25	25	4	18	124954.4	124954.4	0.04%					74	10	85.09	TCHSHT
AAA006_4-50	50	4	6	81904.2	81904.2	0.26%					20	4	17.67	TCHSHT
AAA016_4-50	50	4	6	85024.5	85024.5	0.20%					20	4	14.13	TCHSHT
AAA026_4-50	50	4	6	87325.9	87325.9	0.20%					15	3	37.75	TCHSHT
AAA036_4-50	50	4	6	88273.2	88273.2	0.25%					15	3	5.61	TCHSHT
AAA046_4-50	50	4	6	94787.4	94787.4	0.33%					20	4	63.62	TCHSHT
AAA056_4-50	50	4	6	89787.2	89787.2	0.24%					15	3	20.84	TCHSHT
AAA066_4-50	50	4	6	80097.4	80097.4	0.26%					20	4	13.09	TCHSHT
AAA076_4-50	50	4	6	83905.6	83905.6	0.24%					20	4	17.32	TCHSHT
AAA086_4-50	50	4	6	84083.5	84083.5	0.26%					15	3	23.20	TCHSHT
AAA096_4-50	50	4	6	94895.2	94895.2	0.21%					15	3	21.67	TCHSHT
AAA0012_4-50	50	4	12	160345.1	160345.1	0.09%					57	10	137.20	TCHSHT
AAA0112_4-50	50	4	12	157657.8	157657.8	0.02%					91	16	150.89	TCHSHT
AAA0212_4-50	50	4	12	159482.1	159482.1	0.19%					92	16	272.64	TCHSHT
AAA0312_4-50	50	4	12	166905.3	166905.3	0.19%					52	9	95.14	TCHSHT
AAA0412_4-50	50	4	12	171630.5	171630.5	0.10%					57	10	141.12	TCHSHT
AAA0512_4-50	50	4	12	165346.4	165346.4	0.06%					40	7	67.76	TCHSHT
AAA0612_4-50	50	4	12	150549.6	150549.6	0.01%					63	11	69.48	TCHSHT
AAA0712_4-50	50	4	12	162671.1	162671.1	0.13%					51	9	115.70	TCHSHT
AAA0812_4-50	50	4	12	157574.0	157574.0	0.08%					69	12	125.77	TCHSHT
AAA0912_4-50	50	4	12	172761.1	172761.1	0.04%					85	15	122.42	TCHSHT
AAA0018_4-50	50	4	18	228708.4	228708.4	0.04%					84	11	179.93	TCHSHT
AAA0118_4-50	50	4	18	232940.1	232940.1	0.07%					90	12	233.25	TCHSHT
AAA0218_4-50	50	4	18	238945.9	238945.9	0.06%					60	8	202.44	TCHSHT
AAA0318_4-50	50	4	18	243763.6	243763.6	0.07%					60	8	131.27	TCHSHT
AAA0418_4-50	50	4	18	253993.5	253993.5	0.08%					100	13	340.25	TCHSHT
AAA0518_4-50	50	4	18	244969.8	244969.8	0.07%					90	12	194.31	TCHSHT
AAA0618_4-50	50	4	18	224198.1	224198.1	0.01%					60	8	70.57	TCHSHT
AAA0718_4-50	50	4	18	241493.4	241493.4	0.06%					98	13	343.45	TCHSHT
AAA0818_4-50	50	4	18	228238.1	228238.1	0.02%					82	11	139.42	TCHSHT
AAA0918_4-50	50	4	18	252156.6	252156.6	0.04%					98	13	208.83	TCHSHT
AAA006_6-6	6	6	6	9919.9	9919.9	3.20%					15	3	0.93	TCHSHT
AAA016_6-6	6	6	6	13297.8	13297.8	1.31%					35	7	6.11	TCHSHT
AAA026_6-6	6	6	6	12268.3	12268.3	0.45%					20	4	0.90	TCHSHT
AAA036_6-6	6	6	6	14313.8	14313.8	2.80%					20	4	2.38	TCHSHT
AAA046_6-6	6	6	6	14236.7	14236.7	1.28%					30	6	1.18	TCHSHT
AAA056_6-6	6	6	6	16729.9	16729.9	2.11%					20	4	1.35	TCHSHT
AAA066_6-6	6	6	6	11644.6	11644.6	0.55%					20	4	1.90	TCHSHT
AAA076_6-6	6	6	6	15368.9	15368.9	0.13%					20	4	1.28	TCHSHT
AAA086_6-6	6	6	6	14924.8	14924.8	2.27%					15	3	1.18	TCHSHT
AAA096_6-6	6	6	6	16009.4	16009.4	0.55%					30	6	3.06	TCHSHT
AAA0012_6-6	6	6	12	19941.2	19941.2	0.40%					46	8	6.23	TCHSHT
AAA0112_6-6	6	6	12	24287.2	24287.2	0.24%					64	11	8.41	TCHSHT
AAA0212_6-6	6	6	12	24151.8	24151.8	0.29%					51	9	5.08	TCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0312_6-6	6	6	12	27290.8	27290.8	0.22%					40	7	6.07	TCHSHT
AAA0412_6-6	6	6	12	27296.6	27296.6	1.53%					46	8	18.72	TCHSHT
AAA0512_6-6	6	6	12	28664.9	28664.9	0.33%					52	9	7.79	TCHSHT
AAA0612_6-6	6	6	12	22886.7	22886.7	0.18%					63	11	6.97	TCHSHT
AAA0712_6-6	6	6	12	28753.4	28753.4	0.15%					63	11	7.05	TCHSHT
AAA0812_6-6	6	6	12	27065.8	27065.8	1.77%					46	8	21.61	TCHSHT
AAA0912_6-6	6	6	12	30129.7	30129.7	0.28%					87	15	11.77	TCHSHT
AAA0018_6-6	6	6	18	29563.6	29563.6	1.20%					52	7	12.84	TCHSHT
AAA0218_6-6	6	6	18	32766.5	32766.5	0.34%					52	7	11.13	TCHSHT
AAA0318_6-6	6	6	18	38366.5	38366.5	0.06%					52	7	18.28	TCHSHT
AAA0418_6-6	6	6	18	39267.8	39267.8	0.37%					60	8	26.45	TCHSHT
AAA0518_6-6	6	6	18	44139.7	44139.7	0.16%					74	10	36.39	TCHSHT
AAA0618_6-6	6	6	18	33662.4	33662.4	0.19%					76	10	22.83	TCHSHT
AAA0718_6-6	6	6	18	42166.2	42166.2	0.04%					68	9	24.68	TCHSHT
AAA0818_6-6	6	6	18	43003.5	43003.5	0.78%					76	10	41.72	TCHSHT
AAA0918_6-6	6	6	18	46099.3	46099.3	0.17%					146	19	100.77	TCHSHT
AAA006_6-12	12	6	6	20746.2	20746.2	0.82%					15	3	3.33	TCHSHT
AAA016_6-12	12	6	6	21012.2	21012.2	0.78%					25	5	17.91	TCHSHT
AAA026_6-12	12	6	6	19961.4	19961.4	2.03%					20	4	18.16	TCHSHT
AAA036_6-12	12	6	6	20757.6	20757.6	1.05%					30	6	7.86	TCHSHT
AAA046_6-12	12	6	6	19289.8	19289.8	2.43%					20	4	6.31	TCHSHT
AAA056_6-12	12	6	6	20843.6	20843.6	3.03%					15	3	4.21	TCHSHT
AAA066_6-12	12	6	6	18359.8	18359.8	0.16%					20	4	1.78	TCHSHT
AAA076_6-12	12	6	6	24247.1	24247.1	1.14%					25	5	24.23	TCHSHT
AAA086_6-12	12	6	6	21350.9	21350.9	1.92%					25	5	14.35	TCHSHT
AAA096_6-12	12	6	6	24460.4	24460.4	1.96%					20	4	5.86	TCHSHT
AAA0012_6-12	12	6	12	38223.0	38223.0	0.51%					40	7	17.86	TCHSHT
AAA0112_6-12	12	6	12	40403.5	40403.5	0.76%					74	13	36.29	TCHSHT
AAA0212_6-12	12	6	12	38353.9	38353.9	0.61%					58	10	103.15	TCHSHT
AAA0312_6-12	12	6	12	40913.4	40913.4	0.86%					57	10	26.98	TCHSHT
AAA0412_6-12	12	6	12	36515.5	36515.5	0.23%					41	7	30.44	TCHSHT
AAA0512_6-12	12	6	12	42374.6	42374.6	0.50%					69	12	33.98	TCHSHT
AAA0612_6-12	12	6	12	34883.9	34883.9	0.23%					57	10	11.42	TCHSHT
AAA0712_6-12	12	6	12	47921.8	47921.8	0.73%					75	13	140.92	TCHSHT
AAA0812_6-12	12	6	12	39575.7	39575.7	0.39%					63	11	55.61	TCHSHT
AAA0912_6-12	12	6	12	44613.3	44613.3	1.03%					46	8	16.46	TCHSHT
AAA0018_6-12	12	6	18	57221.5	57221.5	0.20%					68	9	51.54	TCHSHT
AAA0118_6-12	12	6	18	62251.9	62251.9	0.21%					68	9	48.98	TCHSHT
AAA0218_6-12	12	6	18	56086.1	56086.1	0.39%					68	9	63.59	TCHSHT
AAA0318_6-12	12	6	18	58360.4	58360.4	0.40%					84	11	72.21	TCHSHT
AAA0418_6-12	12	6	18	53099.9	53099.9	0.13%					68	9	40.56	TCHSHT
AAA0518_6-12	12	6	18	63078.5	63078.5	0.00%					138	18	54.78	TCHSHT
AAA0618_6-12	12	6	18	54618.6	54618.6	0.14%					90	12	31.93	TCHSHT
AAA0718_6-12	12	6	18	69002.5	69002.5	0.04%					136	18	246.60	TCHSHT
AAA0818_6-12	12	6	18	58712.1	58712.1	0.17%					46	6	83.30	TCHSHT
AAA0918_6-12	12	6	18	66314.4	66314.4	0.92%					54	7	37.02	TCHSHT
AAA006_6-25	25	6	6	39865.4	39865.4	0.26%					25	5	16.83	TCHSHT
AAA016_6-25	25	6	6	40197.4	40197.4	0.45%					20	4	27.64	TCHSHT
AAA026_6-25	25	6	6	42110.2	42110.2	0.63%					25	5	33.15	TCHSHT
AAA036_6-25	25	6	6	41474.5	41474.5	1.10%					20	4	31.48	TCHSHT
AAA046_6-25	25	6	6	43750.1	43750.1	0.69%					15	3	17.39	TCHSHT
AAA056_6-25	25	6	6	40827.6	40827.6	0.36%					20	4	41.45	TCHSHT
AAA066_6-25	25	6	6	39468.6	39468.6	0.35%					25	5	39.81	TCHSHT
AAA076_6-25	25	6	6	43334.7	43334.7	0.94%					25	5	18.53	TCHSHT
AAA086_6-25	25	6	6	41546.2	41546.2	1.05%					25	5	55.67	TCHSHT
AAA096_6-25	25	6	6	42873.8	42873.8	0.58%					20	4	16.28	TCHSHT
AAA0012_6-25	25	6	12	77538.7	77538.7	0.11%					63	11	127.15	TCHSHT
AAA0112_6-25	25	6	12	80132.9	80132.9	0.12%					52	9	124.41	TCHSHT
AAA0212_6-25	25	6	12	80700.9	80700.9	0.20%					75	13	126.23	TCHSHT
AAA0312_6-25	25	6	12	78595.3	78595.3	0.54%					40	7	94.81	TCHSHT
AAA0412_6-25	25	6	12	81450.9	81450.9	0.08%					63	11	142.82	TCHSHT
AAA0512_6-25	25	6	12	77340.5	77340.5	0.41%					46	8	86.95	TCHSHT
AAA0612_6-25	25	6	12	74958.8	74958.8	0.06%					69	12	134.77	TCHSHT
AAA0712_6-25	25	6	12	78333.6	78333.6	0.14%					57	10	41.74	TCHSHT
AAA0812_6-25	25	6	12	76126.8	76126.8	0.45%					58	10	112.21	TCHSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0912_6-25	25	6	12	82954.1	82954.1	0.03%					104	18	177.61	TCHSHT
AAA0018_6-25	25	6	18	112355.1	112355.1	0.21%					98	13	270.16	TCHSHT
AAA0118_6-25	25	6	18	118257.7	118257.7	0.01%					76	10	181.46	TCHSHT
AAA0218_6-25	25	6	18	121027.8	121027.8	-0.04%					62	8	144.34	TCHSHT
AAA0318_6-25	25	6	18	117609.5	117609.5	0.05%					70	9	191.31	TCHSHT
AAA0418_6-25	25	6	18	121367.8	121367.8	0.00%					90	12	266.91	TCHSHT
AAA0518_6-25	25	6	18	118409.3	118409.3	0.12%					84	11	166.46	TCHSHT
AAA0618_6-25	25	6	18	109735.2	109735.2	0.08%					76	10	165.02	TCHSHT
AAA0718_6-25	25	6	18	115589.4	115589.4	0.16%					76	10	103.20	TCHSHT
AAA0818_6-25	25	6	18	110041.1	110041.1	0.24%					38	5	103.56	TCHSHT
AAA0918_6-25	25	6	18	123387.7	123387.7	0.13%					100	13	269.06	TCHSHT
AAA006_6-50	50	6	6	75047.5	75047.5	0.25%					20	4	44.21	TCHSHT
AAA016_6-50	50	6	6	77667.9	77667.9	0.42%					15	3	36.61	TCHSHT
AAA026_6-50	50	6	6	80520.0	80520.0	0.31%					20	4	61.81	TCHSHT
AAA036_6-50	50	6	6	78631.0	78631.0	0.32%					15	3	24.64	TCHSHT
AAA046_6-50	50	6	6	81279.3	81279.3	0.35%					20	4	61.44	TCHSHT
AAA056_6-50	50	6	6	81781.8	81781.8	0.21%					15	3	53.82	TCHSHT
AAA066_6-50	50	6	6	78360.5	78360.5	0.30%					15	3	37.62	TCHSHT
AAA076_6-50	50	6	6	81866.3	81866.3	0.13%					15	3	13.55	TCHSHT
AAA086_6-50	50	6	6	76860.5	76860.5	0.11%					25	5	20.29	TCHSHT
AAA096_6-50	50	6	6	78047.5	78047.5	0.20%					15	3	31.44	TCHSHT
AAA0012_6-50	50	6	12	145847.2	145847.2	0.10%					46	8	109.57	TCHSHT
AAA0112_6-50	50	6	12	148842.9	148842.9	0.03%					40	7	88.67	TCHSHT
AAA0212_6-50	50	6	12	153428.9	153428.9	0.12%					63	11	196.62	TCHSHT
AAA0312_6-50	50	6	12	151991.0	151991.0	0.16%					81	14	190.28	TCHSHT
AAA0412_6-50	50	6	12	158825.4	158825.4	0.10%					68	12	194.97	TCHSHT
AAA0512_6-50	50	6	12	156225.3	156225.3	0.02%					46	8	151.50	TCHSHT
AAA0612_6-50	50	6	12	147442.9	147442.9	0.06%					81	14	332.85	TCHSHT
AAA0712_6-50	50	6	12	156739.1	156739.1	0.04%					46	8	117.43	TCHSHT
AAA0812_6-50	50	6	12	143523.1	143523.1	0.09%					69	12	151.47	TCHSHT
AAA0912_6-50	50	6	12	150966.7	150966.7	0.06%					103	18	242.96	TCHSHT
AAA0018_6-50	50	6	18	215991.9	215991.9	0.08%					60	8	170.49	TCHSHT
AAA0118_6-50	50	6	18	218133.0	218133.0	0.13%					76	10	176.16	TCHSHT
AAA0218_6-50	50	6	18	223731.1	223731.1	0.03%					84	11	301.95	TCHSHT
AAA0318_6-50	50	6	18	225534.6	225534.6	0.02%					98	13	282.76	TCHSHT
AAA0418_6-50	50	6	18	236414.1	236414.1	0.13%					74	10	327.88	TCHSHT
AAA0518_6-50	50	6	18	225392.2	225392.2	-0.03%					136	18	422.51	TCHSHT
AAA0618_6-50	50	6	18	219092.6	219092.6	-0.02%					76	10	428.31	TCHSHT
AAA0718_6-50	50	6	18	230327.0	230327.0	0.15%					90	12	252.21	TCHSHT
AAA0818_6-50	50	6	18	214499.8	214499.8	0.06%					98	13	201.33	TCHSHT
AAA0918_6-50	50	6	18	223884.9	223884.9	0.05%					120	16	309.24	TCHSHT
AAB006_2-6	6	2	6	14854.6	14854.6	1.85%					15	3	0.40	TCHSLT
AAB016_2-6	6	2	6	12161.7	12161.7	2.25%					15	3	0.48	TCHSLT
AAB026_2-6	6	2	6	16684.8	16684.8	7.25%					15	3	0.41	TCHSLT
AAB046_2-6	6	2	6	19155.2	19155.2	1.18%					15	3	0.55	TCHSLT
AAB056_2-6	6	2	6	17310.9	17310.9	0.00%					20	4	0.51	TCHSLT
AAB066_2-6	6	2	6	17565.7	17565.7	0.00%					15	3	0.36	TCHSLT
AAB076_2-6	6	2	6	18651.3	18651.3	3.59%					10	2	0.39	TCHSLT
AAB086_2-6	6	2	6	13673.4	13673.4	1.14%					10	2	0.30	TCHSLT
AAB096_2-6	6	2	6	14204.5	14204.5	0.09%					20	4	0.40	TCHSLT
AAB0012_2-6	6	2	12	25750.5	25750.5	0.66%					63	11	3.42	TCHSLT
AAB0112_2-6	6	2	12	25288.2	25288.2	1.63%					75	13	4.41	TCHSLT
AAB0212_2-6	6	2	12	28705.8	28705.8	1.61%					23	4	1.12	TCHSLT
AAB0412_2-6	6	2	12	33175.5	33175.5	1.97%					81	14	10.63	TCHSLT
AAB0512_2-6	6	2	12	34005.9	34005.9	2.34%					93	16	6.88	TCHSLT
AAB0612_2-6	6	2	12	30756.6	30756.6	0.59%					57	10	3.01	TCHSLT
AAB0712_2-6	6	2	12	28304.6	28304.6	1.22%					81	14	3.21	TCHSLT
AAB0812_2-6	6	2	12	23249.5	23249.5	1.78%					40	7	1.61	TCHSLT
AAB0912_2-6	6	2	12	29314.6	29314.6	1.01%					81	14	5.99	TCHSLT
AAB0018_2-6	6	2	18	34805.1	34805.1	0.41%					52	7	5.22	TCHSLT
AAB0118_2-6	6	2	18	35616.0	35616.0	0.36%					54	7	6.42	TCHSLT
AAB0218_2-6	6	2	18	41007.4	41007.4	0.66%					74	10	4.22	TCHSLT
AAB0418_2-6	6	2	18	39402.5	39402.5	0.77%					90	12	9.75	TCHSLT
AAB0518_2-6	6	2	18	44392.8	44392.8	1.01%					90	12	10.32	TCHSLT
AAB0618_2-6	6	2	18	41852.2	41852.2	1.55%					90	12	12.12	TCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_2-6	6	2	18	40761.6	40761.6	0.45%					74	10	6.98	TCHSLT
AAB0818_2-6	6	2	18	32741.9	32741.9	0.12%					76	10	4.83	TCHSLT
AAB0918_2-6	6	2	18	37376.7	37376.7	0.07%					76	10	8.56	TCHSLT
AAB006_2-12	12	2	6	23524.7	23524.7	1.84%					15	3	0.98	TCHSLT
AAB016_2-12	12	2	6	27010.1	27010.1	0.63%					15	3	0.85	TCHSLT
AAB026_2-12	12	2	6	28469.7	28469.7	1.14%					15	3	0.87	TCHSLT
AAB036_2-12	12	2	6	30930.5	30930.5	1.70%					15	3	1.06	TCHSLT
AAB046_2-12	12	2	6	27975.9	27975.9	4.88%					15	3	0.84	TCHSLT
AAB056_2-12	12	2	6	30755.7	30755.7	0.89%					15	3	0.64	TCHSLT
AAB066_2-12	12	2	6	27346.4	27346.4	0.01%					15	3	0.77	TCHSLT
AAB076_2-12	12	2	6	29074.3	29074.3	6.41%					15	3	0.93	TCHSLT
AAB086_2-12	12	2	6	26018.1	26018.1	1.25%					15	3	0.87	TCHSLT
AAB096_2-12	12	2	6	29231.1	29231.1	1.35%					10	2	0.62	TCHSLT
AAB0012_2-12	12	2	12	43625.8	43625.8	0.28%					63	11	13.63	TCHSLT
AAB0112_2-12	12	2	12	42981.4	42981.4	0.45%					40	7	4.87	TCHSLT
AAB0212_2-12	12	2	12	46400.7	46400.7	1.59%					75	13	17.35	TCHSLT
AAB0312_2-12	12	2	12	56319.1	56319.1	2.83%					63	11	14.47	TCHSLT
AAB0412_2-12	12	2	12	46144.7	46144.7	0.32%					35	6	2.93	TCHSLT
AAB0512_2-12	12	2	12	54593.4	54593.4	0.33%					104	18	29.82	TCHSLT
AAB0612_2-12	12	2	12	48362.8	48362.8	1.42%					40	7	5.71	TCHSLT
AAB0712_2-12	12	2	12	54134.5	54134.5	2.26%					109	19	43.82	TCHSLT
AAB0812_2-12	12	2	12	42905.5	42905.5	0.59%					57	10	7.81	TCHSLT
AAB0912_2-12	12	2	12	54184.7	54184.7	0.83%					41	7	16.94	TCHSLT
AAB0118_2-12	12	2	18	64593.0	64593.0	0.26%					92	12	34.16	TCHSLT
AAB0218_2-12	12	2	18	68117.3	68117.3	0.33%					62	8	46.05	TCHSLT
AAB0318_2-12	12	2	18	77897.2	77897.2	0.06%					76	10	41.42	TCHSLT
AAB0418_2-12	12	2	18	69012.0	69012.0	-0.27%					142	19	69.97	TCHSLT
AAB0518_2-12	12	2	18	76249.6	76249.6	-0.18%					76	10	42.06	TCHSLT
AAB0618_2-12	12	2	18	69094.3	69094.3	0.48%					62	8	26.07	TCHSLT
AAB0718_2-12	12	2	18	69596.1	69596.1	0.26%					68	9	19.50	TCHSLT
AAB0818_2-12	12	2	18	67251.2	67251.2	0.26%					114	15	42.08	TCHSLT
AAB0918_2-12	12	2	18	76062.9	76062.9	0.12%					76	10	50.87	TCHSLT
AAB006_2-25	25	2	6	50829.5	50829.5	0.72%					15	3	2.05	TCHSLT
AAB016_2-25	25	2	6	50950.4	50950.4	0.27%					10	2	0.73	TCHSLT
AAB026_2-25	25	2	6	56288.6	56288.6	0.88%					15	3	2.19	TCHSLT
AAB036_2-25	25	2	6	56651.0	56651.0	1.07%					10	2	1.32	TCHSLT
AAB046_2-25	25	2	6	58505.0	58505.0	0.32%					10	2	1.25	TCHSLT
AAB056_2-25	25	2	6	60499.1	60499.1	0.52%					25	5	3.55	TCHSLT
AAB066_2-25	25	2	6	48465.9	48465.9	0.57%					20	4	2.51	TCHSLT
AAB076_2-25	25	2	6	54759.1	54759.1	0.46%					15	3	1.68	TCHSLT
AAB086_2-25	25	2	6	58942.0	58942.0	0.97%					20	4	4.53	TCHSLT
AAB096_2-25	25	2	6	65822.5	65822.5	1.61%					30	6	7.64	TCHSLT
AAB0012_2-25	25	2	12	93197.1	93197.1	1.16%					57	10	50.74	TCHSLT
AAB0112_2-25	25	2	12	97323.6	97323.6	0.23%					80	14	35.53	TCHSLT
AAB0212_2-25	25	2	12	95877.8	95877.8	0.81%					68	12	121.15	TCHSLT
AAB0312_2-25	25	2	12	100090.4	100090.4	1.48%					63	11	86.75	TCHSLT
AAB0412_2-25	25	2	12	98555.4	98555.4	0.15%					63	11	79.30	TCHSLT
AAB0512_2-25	25	2	12	111235.5	111235.5	0.28%					57	10	68.26	TCHSLT
AAB0612_2-25	25	2	12	94585.8	94585.8	0.98%					58	10	52.58	TCHSLT
AAB0712_2-25	25	2	12	98718.7	98718.7	0.64%					29	5	34.70	TCHSLT
AAB0812_2-25	25	2	12	103154.0	103154.0	0.40%					40	7	59.91	TCHSLT
AAB0912_2-25	25	2	12	108560.9	108560.9	0.19%					52	9	96.95	TCHSLT
AAB0018_2-25	25	2	18	132457.1	132457.1	0.11%					98	13	180.18	TCHSLT
AAB0118_2-25	25	2	18	135702.0	135702.0	0.01%					112	15	54.70	TCHSLT
AAB0218_2-25	25	2	18	134508.8	134508.8	0.12%					112	15	196.00	TCHSLT
AAB0318_2-25	25	2	18	147323.6	147323.6	0.11%					106	14	117.32	TCHSLT
AAB0418_2-25	25	2	18	141094.6	141094.6	-0.01%					66	9	57.48	TCHSLT
AAB0518_2-25	25	2	18	154358.1	154358.1	-0.03%					92	12	278.56	TCHSLT
AAB0618_2-25	25	2	18	130873.2	130873.2	0.16%					76	10	54.14	TCHSLT
AAB0718_2-25	25	2	18	145991.9	145991.9	0.08%					76	10	110.03	TCHSLT
AAB0818_2-25	25	2	18	143766.8	143766.8	0.45%					38	5	108.94	TCHSLT
AAB0918_2-25	25	2	18	155661.4	155661.4	-0.05%					98	13	182.82	TCHSLT
AAB006_2-50	50	2	6	99451.1	99451.1	0.23%					25	5	7.38	TCHSLT
AAB016_2-50	50	2	6	102419.3	102419.3	0.35%					15	3	3.01	TCHSLT
AAB026_2-50	50	2	6	101616.8	101616.8	0.12%					15	3	3.20	TCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB036_2-50	50	2	6	109040.9	109040.9	0.36%					10	2	3.64	TCHSLT
AAB046_2-50	50	2	6	116352.0	116352.0	0.13%					10	2	8.40	TCHSLT
AAB056_2-50	50	2	6	114651.9	114651.9	0.55%					15	3	13.84	TCHSLT
AAB066_2-50	50	2	6	102289.0	102289.0	0.33%					20	4	6.00	TCHSLT
AAB076_2-50	50	2	6	110751.8	110751.8	0.56%					20	4	9.17	TCHSLT
AAB086_2-50	50	2	6	104843.5	104843.5	0.13%					15	3	3.34	TCHSLT
AAB096_2-50	50	2	6	111289.6	111289.6	0.20%					15	3	5.52	TCHSLT
AAB0012_2-50	50	2	12	183035.8	183035.8	0.21%					85	15	163.62	TCHSLT
AAB0112_2-50	50	2	12	188958.1	188958.1	0.14%					63	11	104.50	TCHSLT
AAB0212_2-50	50	2	12	185382.5	185382.5	0.23%					80	14	190.24	TCHSLT
AAB0312_2-50	50	2	12	195243.2	195243.2	0.24%					57	10	90.65	TCHSLT
AAB0412_2-50	50	2	12	206576.8	206576.8	0.19%					40	7	123.67	TCHSLT
AAB0512_2-50	50	2	12	202689.8	202689.8	0.29%					74	13	173.73	TCHSLT
AAB0612_2-50	50	2	12	179921.2	179921.2	0.16%					69	12	48.94	TCHSLT
AAB0712_2-50	50	2	12	196500.4	196500.4	-0.03%					52	9	139.22	TCHSLT
AAB0812_2-50	50	2	12	186060.1	186060.1	0.14%					81	14	126.54	TCHSLT
AAB0912_2-50	50	2	12	199811.0	199811.0	0.12%					63	11	150.28	TCHSLT
AAB0018_2-50	50	2	18	264222.3	264222.3	0.04%					82	11	125.00	TCHSLT
AAB0118_2-50	50	2	18	272693.6	272693.6	0.07%					68	9	192.40	TCHSLT
AAB0218_2-50	50	2	18	264895.4	264895.4	0.04%					74	10	136.33	TCHSLT
AAB0318_2-50	50	2	18	285516.5	285516.5	0.08%					104	14	197.23	TCHSLT
AAB0418_2-50	50	2	18	300595.1	300595.1	0.10%					76	10	430.65	TCHSLT
AAB0518_2-50	50	2	18	292653.9	292653.9	0.22%					82	11	261.23	TCHSLT
AAB0618_2-50	50	2	18	262330.9	262330.9	0.05%					60	8	116.98	TCHSLT
AAB0718_2-50	50	2	18	279618.0	279618.0	0.07%					82	11	417.11	TCHSLT
AAB0818_2-50	50	2	18	268010.8	268010.8	0.01%					60	8	107.99	TCHSLT
AAB0918_2-50	50	2	18	290365.8	290365.8	0.13%					84	11	299.90	TCHSLT
AAB006_4-6	6	4	6	10054.8	10054.8	1.14%					15	3	0.49	TCHSLT
AAB016_4-6	6	4	6	14387.2	14387.2	5.26%					20	4	1.94	TCHSLT
AAB026_4-6	6	4	6	12910.9	12910.9	0.08%					20	4	0.86	TCHSLT
AAB036_4-6	6	4	6	14192.1	14192.1	2.41%					25	5	1.19	TCHSLT
AAB046_4-6	6	4	6	11685.6	11685.6	1.85%					15	3	2.35	TCHSLT
AAB056_4-6	6	4	6	16374.3	16374.3	0.00%					20	4	1.01	TCHSLT
AAB066_4-6	6	4	6	13232.9	13232.9	3.29%					15	3	0.73	TCHSLT
AAB076_4-6	6	4	6	14628.8	14628.8	0.00%					25	5	0.86	TCHSLT
AAB086_4-6	6	4	6	11424.1	11424.1	7.39%					15	3	0.52	TCHSLT
AAB096_4-6	6	4	6	15320.5	15320.5	1.09%					20	4	0.62	TCHSLT
AAB0012_4-6	6	4	12	18500.6	18500.6	0.35%					46	8	3.10	TCHSLT
AAB0112_4-6	6	4	12	27168.2	27168.2	1.30%					52	9	11.46	TCHSLT
AAB0212_4-6	6	4	12	24913.2	24913.2	0.88%					41	7	6.26	TCHSLT
AAB0312_4-6	6	4	12	27590.9	27590.9	0.70%					63	11	4.48	TCHSLT
AAB0412_4-6	6	4	12	26034.0	26034.0	0.70%					81	14	38.49	TCHSLT
AAB0512_4-6	6	4	12	31945.6	31945.6	0.47%					40	7	3.25	TCHSLT
AAB0612_4-6	6	4	12	22952.6	22952.6	0.92%					46	8	2.48	TCHSLT
AAB0712_4-6	6	4	12	25734.5	25734.5	0.80%					69	12	14.13	TCHSLT
AAB0812_4-6	6	4	12	23198.9	23198.9	0.02%					46	8	4.37	TCHSLT
AAB0912_4-6	6	4	12	27500.2	27500.2	0.54%					40	7	2.18	TCHSLT
AAB0018_4-6	6	4	18	28384.8	28384.8	0.02%					90	12	9.39	TCHSLT
AAB0118_4-6	6	4	18	36023.4	36023.4	0.32%					82	11	35.00	TCHSLT
AAB0218_4-6	6	4	18	35568.9	35568.9	0.06%					120	16	36.26	TCHSLT
AAB0318_4-6	6	4	18	41384.8	41384.8	0.00%					98	13	37.90	TCHSLT
AAB0418_4-6	6	4	18	37288.4	37288.4	0.14%					112	15	31.84	TCHSLT
AAB0518_4-6	6	4	18	45051.5	45051.5	0.34%					46	6	6.51	TCHSLT
AAB0618_4-6	6	4	18	36264.8	36264.8	0.15%					54	7	9.84	TCHSLT
AAB0718_4-6	6	4	18	38909.6	38909.6	0.19%					90	12	24.19	TCHSLT
AAB0818_4-6	6	4	18	29298.5	29298.5	0.56%					52	7	15.52	TCHSLT
AAB0918_4-6	6	4	18	39486.1	39486.1	0.19%					60	8	6.13	TCHSLT
AAB006_4-12	12	4	6	21186.6	21186.6	0.33%					20	4	1.84	TCHSLT
AAB016_4-12	12	4	6	25675.6	25675.6	2.95%					15	3	6.54	TCHSLT
AAB026_4-12	12	4	6	19327.8	19327.8	0.12%					15	3	1.15	TCHSLT
AAB036_4-12	12	4	6	21809.4	21809.4	0.37%					25	5	7.15	TCHSLT
AAB046_4-12	12	4	6	24757.7	24757.7	3.13%					25	5	3.40	TCHSLT
AAB056_4-12	12	4	6	25752.1	25752.1	1.29%					20	4	1.63	TCHSLT
AAB066_4-12	12	4	6	22809.4	22809.4	3.05%					25	5	2.66	TCHSLT
AAB076_4-12	12	4	6	23886.4	23886.4	5.19%					20	4	20.69	TCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB086_4-12	12	4	6	23513.0	23513.0	0.70%					20	4	2.57	TCHSLT
AAB096_4-12	12	4	6	23843.4	23843.4	1.46%					40	8	23.96	TCHSLT
AAB0012_4-12	12	4	12	37430.8	37430.8	0.00%					74	13	43.86	TCHSLT
AAB0112_4-12	12	4	12	44248.6	44248.6	0.57%					69	12	131.43	TCHSLT
AAB0212_4-12	12	4	12	38132.0	38132.0	0.17%					45	8	19.87	TCHSLT
AAB0312_4-12	12	4	12	42900.8	42900.8	0.86%					80	14	75.96	TCHSLT
AAB0412_4-12	12	4	12	43851.8	43851.8	0.16%					52	9	22.04	TCHSLT
AAB0512_4-12	12	4	12	48393.8	48393.8	0.94%					52	9	38.49	TCHSLT
AAB0612_4-12	12	4	12	41423.2	41423.2	0.27%					52	9	21.47	TCHSLT
AAB0712_4-12	12	4	12	45975.1	45975.1	0.03%					64	11	87.26	TCHSLT
AAB0812_4-12	12	4	12	42804.0	42804.0	0.05%					46	8	20.76	TCHSLT
AAB0912_4-12	12	4	12	46925.7	46925.7	0.46%					70	12	89.88	TCHSLT
AAB0018_4-12	12	4	18	56035.6	56035.6	0.39%					76	10	87.59	TCHSLT
AAB0118_4-12	12	4	18	63183.1	63183.1	0.22%					106	14	156.64	TCHSLT
AAB0218_4-12	12	4	18	54781.2	54781.2	0.14%					60	8	19.68	TCHSLT
AAB0318_4-12	12	4	18	64891.6	64891.6	-0.03%					98	13	133.95	TCHSLT
AAB0418_4-12	12	4	18	65552.3	65552.3	0.24%					76	10	92.12	TCHSLT
AAB0518_4-12	12	4	18	69664.4	69664.4	0.69%					90	12	113.04	TCHSLT
AAB0618_4-12	12	4	18	61669.9	61669.9	0.53%					68	9	30.79	TCHSLT
AAB0718_4-12	12	4	18	69964.6	69964.6	0.30%					92	12	238.55	TCHSLT
AAB0818_4-12	12	4	18	64796.7	64796.7	0.24%					82	11	56.20	TCHSLT
AAB0918_4-12	12	4	18	66028.9	66028.9	0.61%					46	6	67.33	TCHSLT
AAB006_4-25	25	4	6	39052.7	39052.7	0.27%					25	5	23.51	TCHSLT
AAB016_4-25	25	4	6	47847.9	47847.9	0.33%					20	4	13.45	TCHSLT
AAB026_4-25	25	4	6	45842.1	45842.1	0.73%					20	4	23.75	TCHSLT
AAB036_4-25	25	4	6	45944.8	45944.8	1.71%					20	4	14.53	TCHSLT
AAB046_4-25	25	4	6	46147.6	46147.6	0.69%					15	3	17.42	TCHSLT
AAB056_4-25	25	4	6	50169.2	50169.2	0.48%					20	4	25.45	TCHSLT
AAB066_4-25	25	4	6	40055.2	40055.2	1.77%					15	3	6.18	TCHSLT
AAB076_4-25	25	4	6	45670.8	45670.8	0.49%					25	5	20.55	TCHSLT
AAB086_4-25	25	4	6	41841.1	41841.1	0.32%					30	6	18.28	TCHSLT
AAB096_4-25	25	4	6	47515.8	47515.8	0.33%					15	3	3.52	TCHSLT
AAB0012_4-25	25	4	12	77063.3	77063.3	-0.08%					63	11	121.48	TCHSLT
AAB0112_4-25	25	4	12	86508.5	86508.5	0.31%					63	11	177.13	TCHSLT
AAB0212_4-25	25	4	12	82833.2	82833.2	0.28%					63	11	204.34	TCHSLT
AAB0312_4-25	25	4	12	85403.7	85403.7	0.29%					69	12	143.03	TCHSLT
AAB0412_4-25	25	4	12	86713.5	86713.5	0.35%					52	9	113.05	TCHSLT
AAB0512_4-25	25	4	12	90354.2	90354.2	0.46%					57	10	122.00	TCHSLT
AAB0612_4-25	25	4	12	76189.5	76189.5	0.55%					58	10	105.45	TCHSLT
AAB0712_4-25	25	4	12	85969.1	85969.1	0.17%					69	12	110.30	TCHSLT
AAB0812_4-25	25	4	12	80987.2	80987.2	0.26%					58	10	124.36	TCHSLT
AAB0912_4-25	25	4	12	86462.8	86462.8	0.42%					68	12	120.81	TCHSLT
AAB0018_4-25	25	4	18	111592.8	111592.8	0.21%					60	8	138.27	TCHSLT
AAB0118_4-25	25	4	18	124982.5	124982.5	-0.04%					150	20	494.81	TCHSLT
AAB0218_4-25	25	4	18	120791.3	121170.4	-0.11%					116	16	601.76	TCHSLT
AAB0318_4-25	25	4	18	125006.9	125006.9	0.26%					90	12	280.70	TCHSLT
AAB0418_4-25	25	4	18	127206.4	127206.4	0.19%					92	12	233.05	TCHSLT
AAB0518_4-25	25	4	18	129633.1	129633.1	0.25%					60	8	168.82	TCHSLT
AAB0618_4-25	25	4	18	112289.2	112289.2	0.01%					60	8	110.11	TCHSLT
AAB0718_4-25	25	4	18	125422.4	125422.4	0.40%					60	8	192.44	TCHSLT
AAB0818_4-25	25	4	18	114974.7	114974.7	0.09%					78	10	243.04	TCHSLT
AAB0918_4-25	25	4	18	127062.3	127062.3	0.19%					46	6	95.19	TCHSLT
AAB006_4-50	50	4	6	83812.1	83812.1	0.16%					20	4	39.68	TCHSLT
AAB016_4-50	50	4	6	87421.0	87421.0	-0.02%					20	4	31.72	TCHSLT
AAB026_4-50	50	4	6	89450.3	89450.3	0.23%					15	3	40.43	TCHSLT
AAB036_4-50	50	4	6	90467.5	90467.5	0.49%					20	4	25.14	TCHSLT
AAB046_4-50	50	4	6	98196.2	98196.2	0.48%					15	3	29.56	TCHSLT
AAB056_4-50	50	4	6	92676.1	92676.1	0.45%					15	3	16.93	TCHSLT
AAB066_4-50	50	4	6	81576.3	81576.3	0.26%					25	5	18.05	TCHSLT
AAB076_4-50	50	4	6	86199.7	86199.7	0.48%					25	5	42.37	TCHSLT
AAB086_4-50	50	4	6	86204.9	86204.9	0.31%					15	3	25.58	TCHSLT
AAB096_4-50	50	4	6	96492.3	96492.3	0.06%					15	3	9.09	TCHSLT
AAB0012_4-50	50	4	12	163201.5	163201.5	0.12%					63	11	189.89	TCHSLT
AAB0112_4-50	50	4	12	160119.1	160119.1	0.26%					69	12	257.14	TCHSLT
AAB0212_4-50	50	4	12	162008.0	162008.0	0.21%					41	7	180.48	TCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0312_4-50	50	4	12	169386.5	169386.5	0.08%					87	15	318.79	TCHSLT
AAB0412_4-50	50	4	12	175873.7	175873.7	0.30%					69	12	301.78	TCHSLT
AAB0512_4-50	50	4	12	168822.0	168822.0	0.08%					58	10	193.34	TCHSLT
AAB0612_4-50	50	4	12	152142.0	152142.0	0.09%					63	11	108.80	TCHSLT
AAB0712_4-50	50	4	12	165705.1	165705.1	0.03%					63	11	245.18	TCHSLT
AAB0812_4-50	50	4	12	160661.0	160661.0	0.33%					69	12	263.34	TCHSLT
AAB0912_4-50	50	4	12	174410.1	174410.1	-0.01%					41	7	103.99	TCHSLT
AAB0018_4-50	50	4	18	232008.1	232008.1	0.14%					76	10	318.44	TCHSLT
AAB0118_4-50	50	4	18	235169.8	235169.8	-0.02%					112	15	465.80	TCHSLT
AAB0218_4-50	50	4	18	242854.0	242854.0	-0.03%					90	12	418.49	TCHSLT
AAB0318_4-50	50	4	18	246865.9	246865.9	-0.03%					106	14	404.74	TCHSLT
AAB0418_4-50	50	4	18	257253.2	257253.2	-0.10%					46	6	209.19	TCHSLT
AAB0518_4-50	50	4	18	248260.3	248260.3	-0.09%					146	19	546.40	TCHSLT
AAB0618_4-50	50	4	18	225994.7	225994.7	0.07%					68	9	162.53	TCHSLT
AAB0718_4-50	50	4	18	245592.5	245592.5	-0.11%					78	10	437.58	TCHSLT
AAB0818_4-50	50	4	18	230365.3	230365.3	0.10%					147	20	602.41	TCHSLT
AAB0918_4-50	50	4	18	254442.0	254442.0	0.12%					68	9	215.47	TCHSLT
AAB006_6-6	6	6	6	10290.5	10290.5	0.00%					20	4	2.25	TCHSLT
AAB026_6-6	6	6	6	13416.5	13416.5	0.00%					30	6	1.79	TCHSLT
AAB036_6-6	6	6	6	15103.7	15103.7	1.54%					30	6	2.33	TCHSLT
AAB046_6-6	6	6	6	15161.3	15161.3	2.65%					25	5	1.51	TCHSLT
AAB056_6-6	6	6	6	18511.4	18511.4	2.32%					20	4	1.73	TCHSLT
AAB066_6-6	6	6	6	12642.8	12642.8	2.11%					25	5	3.66	TCHSLT
AAB076_6-6	6	6	6	16788.3	16788.3	0.99%					25	5	1.86	TCHSLT
AAB086_6-6	6	6	6	16616.2	16616.2	1.79%					20	4	1.86	TCHSLT
AAB096_6-6	6	6	6	19352.1	19352.1	7.30%					25	5	4.60	TCHSLT
AAB0012_6-6	6	6	12	21502.2	21502.2	1.30%					47	8	6.17	TCHSLT
AAB0212_6-6	6	6	12	26135.4	26135.4	0.12%					57	10	6.10	TCHSLT
AAB0312_6-6	6	6	12	29225.0	29225.0	0.71%					40	7	6.28	TCHSLT
AAB0412_6-6	6	6	12	29219.7	29219.7	0.10%					69	12	11.93	TCHSLT
AAB0512_6-6	6	6	12	31878.4	31878.4	0.93%					81	14	13.02	TCHSLT
AAB0612_6-6	6	6	12	25885.4	25885.4	1.18%					57	10	21.76	TCHSLT
AAB0712_6-6	6	6	12	30750.6	30750.6	0.37%					81	14	16.56	TCHSLT
AAB0812_6-6	6	6	12	30155.6	30155.6	0.63%					69	12	20.77	TCHSLT
AAB0912_6-6	6	6	12	34077.9	34077.9	0.41%					116	20	39.65	TCHSLT
AAB0018_6-6	6	6	18	31263.9	31263.9	0.19%					112	15	32.14	TCHSLT
AAB0218_6-6	6	6	18	35173.9	35173.9	0.13%					68	9	19.25	TCHSLT
AAB0318_6-6	6	6	18	41171.2	41171.2	0.26%					84	11	25.43	TCHSLT
AAB0418_6-6	6	6	18	43005.6	43005.6	0.12%					120	16	69.37	TCHSLT
AAB0518_6-6	6	6	18	48373.9	48373.9	0.14%					90	12	67.88	TCHSLT
AAB0618_6-6	6	6	18	36339.0	36339.0	0.97%					100	13	22.33	TCHSLT
AAB0718_6-6	6	6	18	45503.0	45503.0	0.41%					74	10	27.68	TCHSLT
AAB0818_6-6	6	6	18	47487.6	47487.6	0.28%					70	9	75.04	TCHSLT
AAB0918_6-6	6	6	18	51299.8	51299.8	0.21%					122	16	67.16	TCHSLT
AAB006_6-12	12	6	6	21478.6	21478.6	1.15%					25	5	4.66	TCHSLT
AAB016_6-12	12	6	6	22360.7	22360.7	1.21%					25	5	10.89	TCHSLT
AAB026_6-12	12	6	6	21230.6	21230.6	0.80%					20	4	6.91	TCHSLT
AAB036_6-12	12	6	6	21961.5	21961.5	1.46%					20	4	3.81	TCHSLT
AAB046_6-12	12	6	6	20172.4	20172.4	2.45%					20	4	13.23	TCHSLT
AAB056_6-12	12	6	6	21893.1	21893.1	2.57%					20	4	9.82	TCHSLT
AAB066_6-12	12	6	6	19216.1	19216.1	1.85%					15	3	2.05	TCHSLT
AAB076_6-12	12	6	6	25873.8	25873.8	2.35%					25	5	8.99	TCHSLT
AAB086_6-12	12	6	6	22637.6	22637.6	2.49%					20	4	19.96	TCHSLT
AAB096_6-12	12	6	6	25505.0	25505.0	0.75%					25	5	17.24	TCHSLT
AAB0012_6-12	12	6	12	39425.5	39425.5	0.46%					58	10	38.68	TCHSLT
AAB0112_6-12	12	6	12	41962.9	41962.9	0.60%					46	8	28.33	TCHSLT
AAB0212_6-12	12	6	12	41129.2	41129.2	1.70%					63	11	96.05	TCHSLT
AAB0312_6-12	12	6	12	43340.3	43340.3	0.59%					57	10	71.11	TCHSLT
AAB0412_6-12	12	6	12	38075.4	38075.4	0.07%					29	5	46.28	TCHSLT
AAB0512_6-12	12	6	12	44351.0	44351.0	0.61%					75	13	68.26	TCHSLT
AAB0612_6-12	12	6	12	36514.0	36514.0	1.31%					80	14	32.70	TCHSLT
AAB0712_6-12	12	6	12	51478.9	51478.9	0.91%					52	9	102.18	TCHSLT
AAB0812_6-12	12	6	12	42697.9	42697.9	0.90%					52	9	79.16	TCHSLT
AAB0912_6-12	12	6	12	45867.0	45867.0	0.02%					109	19	117.74	TCHSLT
AAB0018_6-12	12	6	18	59250.8	59250.8	0.06%					54	7	43.84	TCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0118_6-12	12	6	18	64598.4	64598.4	0.57%					60	8	68.12	TCHSLT
AAB0218_6-12	12	6	18	59209.4	59209.4	0.08%					98	13	145.26	TCHSLT
AAB0318_6-12	12	6	18	60667.4	60667.4	-0.06%					54	7	95.12	TCHSLT
AAB0418_6-12	12	6	18	54660.1	54660.1	0.16%					46	6	50.70	TCHSLT
AAB0518_6-12	12	6	18	66584.9	66584.9	0.19%					90	12	134.40	TCHSLT
AAB0618_6-12	12	6	18	56625.2	56625.2	0.04%					68	9	41.84	TCHSLT
AAB0718_6-12	12	6	18	73322.7	73322.7	0.01%					98	13	219.72	TCHSLT
AAB0818_6-12	12	6	18	62051.3	62051.3	0.22%					90	12	143.72	TCHSLT
AAB0918_6-12	12	6	18	67974.1	67974.1	0.28%					76	10	73.35	TCHSLT
AAB006_6-25	25	6	6	42329.1	42329.1	1.07%					15	3	34.22	TCHSLT
AAB016_6-25	25	6	6	41702.0	41702.0	0.80%					20	4	44.01	TCHSLT
AAB026_6-25	25	6	6	44012.5	44012.5	1.12%					35	7	79.85	TCHSLT
AAB036_6-25	25	6	6	43153.8	43153.8	1.50%					20	4	36.25	TCHSLT
AAB046_6-25	25	6	6	45806.3	45806.3	0.96%					30	6	77.28	TCHSLT
AAB056_6-25	25	6	6	42256.7	42256.7	0.74%					20	4	26.91	TCHSLT
AAB066_6-25	25	6	6	41214.8	41214.8	0.96%					20	4	46.93	TCHSLT
AAB076_6-25	25	6	6	44818.6	44818.6	1.37%					30	6	42.45	TCHSLT
AAB086_6-25	25	6	6	43644.1	43644.1	0.73%					20	4	38.13	TCHSLT
AAB096_6-25	25	6	6	44666.1	44666.1	1.55%					15	3	35.08	TCHSLT
AAB0012_6-25	25	6	12	79515.3	79515.3	0.10%					98	17	229.81	TCHSLT
AAB0112_6-25	25	6	12	82788.0	82788.0	0.28%					58	10	192.62	TCHSLT
AAB0212_6-25	25	6	12	82798.5	82798.5	0.14%					75	13	241.24	TCHSLT
AAB0312_6-25	25	6	12	80752.7	80752.7	-0.01%					69	12	210.75	TCHSLT
AAB0412_6-25	25	6	12	84691.7	84691.7	0.30%					110	19	440.57	TCHSLT
AAB0512_6-25	25	6	12	79403.0	79403.0	0.35%					52	9	117.49	TCHSLT
AAB0612_6-25	25	6	12	77203.0	77203.0	0.47%					75	13	225.33	TCHSLT
AAB0712_6-25	25	6	12	79704.0	79704.0	0.19%					46	8	63.34	TCHSLT
AAB0812_6-25	25	6	12	78799.7	78799.7	-0.19%					58	10	142.89	TCHSLT
AAB0912_6-25	25	6	12	85338.8	85338.8	0.08%					115	20	278.02	TCHSLT
AAB0018_6-25	25	6	18	115818.7	115818.7	0.25%					68	9	303.46	TCHSLT
AAB0118_6-25	25	6	18	121038.3	121038.3	0.43%					114	15	413.32	TCHSLT
AAB0218_6-25	25	6	18	124265.3	124265.3	0.18%					92	12	334.29	TCHSLT
AAB0318_6-25	25	6	18	120751.4	120751.4	0.13%					84	11	504.41	TCHSLT
AAB0418_6-25	25	6	18	125166.7	125437.7	-0.56%					102	14	602.90	TCHSLT
AAB0518_6-25	25	6	18	120926.5	120926.5	0.26%					84	11	210.96	TCHSLT
AAB0618_6-25	25	6	18	112561.8	112561.8	0.06%					124	16	446.65	TCHSLT
AAB0718_6-25	25	6	18	118124.6	118124.6	0.25%					84	11	216.83	TCHSLT
AAB0818_6-25	25	6	18	113858.2	113858.2	0.39%					98	13	292.44	TCHSLT
AAB0918_6-25	25	6	18	126523.7	126523.7	0.18%					114	15	382.30	TCHSLT
AAB006_6-50	50	6	6	77114.5	77114.5	0.54%					40	8	127.71	TCHSLT
AAB016_6-50	50	6	6	80408.9	80408.9	0.28%					15	3	33.09	TCHSLT
AAB026_6-50	50	6	6	83381.6	83381.6	0.29%					15	3	46.34	TCHSLT
AAB036_6-50	50	6	6	81012.5	81012.5	0.61%					20	4	59.20	TCHSLT
AAB046_6-50	50	6	6	84232.0	84232.0	0.31%					20	4	59.65	TCHSLT
AAB056_6-50	50	6	6	84909.9	84909.9	0.50%					25	5	106.65	TCHSLT
AAB066_6-50	50	6	6	81037.4	81037.4	0.10%					20	4	66.36	TCHSLT
AAB076_6-50	50	6	6	83550.9	83550.9	0.34%					20	4	59.87	TCHSLT
AAB086_6-50	50	6	6	79906.4	79906.4	0.40%					15	3	49.00	TCHSLT
AAB096_6-50	50	6	6	80650.7	80650.7	0.14%					30	6	79.62	TCHSLT
AAB0012_6-50	50	6	12	148950.2	148950.2	0.18%					92	16	395.06	TCHSLT
AAB0112_6-50	50	6	12	151472.0	151472.0	0.18%					104	18	337.58	TCHSLT
AAB0212_6-50	50	6	12	157568.9	157568.9	0.49%					98	17	494.94	TCHSLT
AAB0312_6-50	50	6	12	155135.9	155135.9	0.27%					63	11	263.08	TCHSLT
AAB0412_6-50	50	6	12	162882.8	162882.8	0.30%					52	9	252.98	TCHSLT
AAB0512_6-50	50	6	12	161044.1	161044.1	0.13%					87	15	410.52	TCHSLT
AAB0612_6-50	50	6	12	151304.4	151624.3	-0.13%					101	18	602.33	TCHSLT
AAB0712_6-50	50	6	12	159229.2	159229.2	0.44%					58	10	185.15	TCHSLT
AAB0812_6-50	50	6	12	146816.4	146816.4	0.48%					63	11	250.67	TCHSLT
AAB0912_6-50	50	6	12	154411.3	154411.3	0.11%					75	13	338.52	TCHSLT
AAB0018_6-50	50	6	18	218936.2	218936.2	-0.05%					46	6	227.40	TCHSLT
AAB0118_6-50	50	6	18	221936.1	221936.1	-0.11%					130	17	603.09	TCHSLT
AAB0218_6-50	50	6	18	227779.0	228014.4	-0.20%					98	13	603.85	TCHSLT
AAB0318_6-50	50	6	18	229157.1	229157.1	-0.16%					60	8	416.70	TCHSLT
AAB0418_6-50	50	6	18	240154.9	241130.4	-0.09%					71	10	604.81	TCHSLT
AAB0518_6-50	50	6	18	230726.4	230726.4	0.12%					68	9	364.11	TCHSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0618_6-50	50	6	18	224281.3	224453.3	-0.13%					68	9	605.25	TCHSLT
AAB0718_6-50	50	6	18	232231.4	232301.9	-0.07%					119	16	603.07	TCHSLT
AAB0818_6-50	50	6	18	218640.8	218640.8	0.06%					82	11	413.12	TCHSLT
AAB0918_6-50	50	6	18	227445.5	227445.5	-0.03%					54	7	372.14	TCHSLT
ABA006_2-6	6	2	6	8174.3	8174.3	0.00%					15	3	0.49	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%					25	5	0.48	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%					10	2	0.25	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%					20	4	0.34	TCLSHT
ABA046_2-6	6	2	6	7965.2	7965.2	0.60%					10	2	0.34	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%					15	3	0.21	TCLSHT
ABA066_2-6	6	2	6	8097.5	8097.5	0.54%					10	2	0.27	TCLSHT
ABA076_2-6	6	2	6	9148.9	9148.9	0.21%					15	3	0.43	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%					10	2	0.21	TCLSHT
ABA096_2-6	6	2	6	7104.4	7104.4	0.00%					15	3	0.17	TCLSHT
ABA0012_2-6	6	2	12	15598.3	15598.3	0.00%					40	7	2.89	TCLSHT
ABA0112_2-6	6	2	12	13427.4	13427.4	0.06%					23	4	0.94	TCLSHT
ABA0212_2-6	6	2	12	14728.6	14728.6	0.03%					29	5	1.67	TCLSHT
ABA0412_2-6	6	2	12	13847.7	13847.7	0.11%					47	8	3.39	TCLSHT
ABA0512_2-6	6	2	12	17446.5	17446.5	0.27%					34	6	1.11	TCLSHT
ABA0612_2-6	6	2	12	14950.6	14950.6	0.04%					23	4	0.79	TCLSHT
ABA0712_2-6	6	2	12	16617.9	16617.9	0.00%					34	6	1.25	TCLSHT
ABA0812_2-6	6	2	12	14158.1	14158.1	0.00%					34	6	1.17	TCLSHT
ABA0912_2-6	6	2	12	16127.2	16127.2	0.02%					23	4	0.71	TCLSHT
ABA0018_2-6	6	2	18	21811.3	21811.3	0.00%					74	10	17.29	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%					50	7	1.89	TCLSHT
ABA0218_2-6	6	2	18	22480.4	22480.4	0.05%					38	5	2.89	TCLSHT
ABA0418_2-6	6	2	18	20189.9	20189.9	0.07%					60	8	6.97	TCLSHT
ABA0518_2-6	6	2	18	25054.5	25054.5	0.00%					52	7	2.80	TCLSHT
ABA0618_2-6	6	2	18	22830.4	22830.4	0.11%					52	7	3.95	TCLSHT
ABA0718_2-6	6	2	18	24375.4	24375.4	0.00%					52	7	5.43	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%					60	8	4.04	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%					30	4	1.28	TCLSHT
ABA006_2-12	12	2	6	12675.3	12675.3	0.00%					15	3	0.36	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%					15	3	0.51	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%					10	2	0.32	TCLSHT
ABA036_2-12	12	2	6	16340.9	16340.9	0.00%					20	4	0.52	TCLSHT
ABA046_2-12	12	2	6	14200.4	14200.4	0.00%					10	2	0.30	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%					10	2	0.42	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%					10	2	0.28	TCLSHT
ABA076_2-12	12	2	6	15411.5	15411.5	0.05%					10	2	0.24	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%					10	2	0.40	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%					10	2	0.52	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%					23	4	1.00	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%					29	5	1.68	TCLSHT
ABA0212_2-12	12	2	12	27198.4	27198.4	0.03%					40	7	3.43	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%					35	6	1.92	TCLSHT
ABA0412_2-12	12	2	12	28313.2	28313.2	0.01%					40	7	3.41	TCLSHT
ABA0512_2-12	12	2	12	32081.3	32081.3	0.00%					45	8	2.39	TCLSHT
ABA0612_2-12	12	2	12	27236.8	27236.8	0.00%					23	4	1.13	TCLSHT
ABA0712_2-12	12	2	12	30388.6	30388.6	0.01%					34	6	2.46	TCLSHT
ABA0812_2-12	12	2	12	26674.7	26674.7	0.00%					51	9	2.93	TCLSHT
ABA0912_2-12	12	2	12	31075.1	31075.1	0.00%					46	8	8.60	TCLSHT
ABA0118_2-12	12	2	18	40447.3	40447.3	0.00%					38	5	4.22	TCLSHT
ABA0218_2-12	12	2	18	41722.8	41722.8	0.02%					30	4	10.06	TCLSHT
ABA0318_2-12	12	2	18	46256.9	46256.9	0.00%					60	8	9.60	TCLSHT
ABA0418_2-12	12	2	18	44169.3	44169.3	0.00%					44	6	4.10	TCLSHT
ABA0518_2-12	12	2	18	47321.1	47321.1	0.00%					52	7	5.92	TCLSHT
ABA0618_2-12	12	2	18	40625.0	40625.0	0.00%					66	9	5.09	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%					30	4	2.42	TCLSHT
ABA0818_2-12	12	2	18	41316.5	41316.5	0.00%					52	7	6.16	TCLSHT
ABA0918_2-12	12	2	18	47349.4	47349.4	-0.05%					60	8	32.26	TCLSHT
ABA006_2-25	25	2	6	29198.3	29198.3	0.02%					15	3	0.57	TCLSHT
ABA016_2-25	25	2	6	29917.1	29917.1	0.09%					15	3	0.95	TCLSHT
ABA026_2-25	25	2	6	28576.6	28576.6	0.00%					20	4	1.27	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%					15	3	0.76	TCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA046_2-25	25	2	6	31420.9	31420.9	0.03%					20	4	1.64	TCLSHT
ABA056_2-25	25	2	6	31510.0	31510.0	0.00%					10	2	0.83	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%					10	2	0.29	TCLSHT
ABA076_2-25	25	2	6	31327.3	31327.3	0.03%					10	2	0.62	TCLSHT
ABA086_2-25	25	2	6	32150.3	32150.3	0.00%					30	6	3.49	TCLSHT
ABA096_2-25	25	2	6	33239.4	33239.4	0.06%					10	2	0.87	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%					17	3	1.62	TCLSHT
ABA0112_2-25	25	2	12	60926.9	60926.9	0.00%					40	7	5.73	TCLSHT
ABA0212_2-25	25	2	12	56234.7	56234.7	0.01%					57	10	6.78	TCLSHT
ABA0312_2-25	25	2	12	59204.3	59204.3	0.03%					46	8	11.15	TCLSHT
ABA0412_2-25	25	2	12	59680.1	59680.1	0.01%					40	7	5.82	TCLSHT
ABA0512_2-25	25	2	12	65019.4	65019.4	0.00%					46	8	18.41	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%					17	3	0.96	TCLSHT
ABA0712_2-25	25	2	12	62772.8	62772.8	0.01%					45	8	7.87	TCLSHT
ABA0812_2-25	25	2	12	62874.4	62874.4	0.01%					63	11	37.47	TCLSHT
ABA0912_2-25	25	2	12	63985.5	63985.5	0.01%					40	7	8.17	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%					22	3	1.64	TCLSHT
ABA0118_2-25	25	2	18	88583.6	88583.6	0.00%					60	8	13.28	TCLSHT
ABA0218_2-25	25	2	18	83260.9	83260.9	0.00%					84	11	21.83	TCLSHT
ABA0318_2-25	25	2	18	91360.6	91360.6	0.00%					38	5	15.68	TCLSHT
ABA0418_2-25	25	2	18	90592.4	90592.4	0.00%					52	7	10.29	TCLSHT
ABA0518_2-25	25	2	18	95120.4	95120.4	0.00%					60	8	76.53	TCLSHT
ABA0618_2-25	25	2	18	83556.7	83556.7	0.02%					44	6	4.06	TCLSHT
ABA0718_2-25	25	2	18	92164.6	92164.6	0.00%					44	6	14.39	TCLSHT
ABA0818_2-25	25	2	18	91533.1	91533.1	0.00%					60	8	69.78	TCLSHT
ABA0918_2-25	25	2	18	93150.7	93150.7	0.01%					60	8	18.86	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%					10	2	0.82	TCLSHT
ABA016_2-50	50	2	6	60308.0	60308.0	0.01%					10	2	0.80	TCLSHT
ABA026_2-50	50	2	6	56150.4	56150.4	0.02%					15	3	2.17	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%					10	2	0.88	TCLSHT
ABA046_2-50	50	2	6	60900.4	60900.4	0.03%					15	3	2.35	TCLSHT
ABA056_2-50	50	2	6	59362.1	59362.1	0.03%					15	3	1.62	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%					10	2	1.17	TCLSHT
ABA076_2-50	50	2	6	58961.9	58961.9	0.01%					10	2	1.39	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%					10	2	1.21	TCLSHT
ABA096_2-50	50	2	6	60666.9	60666.9	0.00%					15	3	1.29	TCLSHT
ABA0012_2-50	50	2	12	117314.5	117314.5	0.00%					17	3	2.08	TCLSHT
ABA0112_2-50	50	2	12	119907.3	119907.3	0.02%					40	7	7.24	TCLSHT
ABA0212_2-50	50	2	12	114060.9	114060.9	0.00%					29	5	11.94	TCLSHT
ABA0312_2-50	50	2	12	119932.7	119932.7	0.00%					40	7	10.26	TCLSHT
ABA0412_2-50	50	2	12	122236.1	122236.1	0.00%					34	6	25.93	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%					23	4	3.31	TCLSHT
ABA0612_2-50	50	2	12	113641.0	113641.0	0.00%					45	8	4.65	TCLSHT
ABA0712_2-50	50	2	12	114723.4	114723.4	0.01%					51	9	36.17	TCLSHT
ABA0812_2-50	50	2	12	115416.9	115416.9	0.00%					39	7	22.69	TCLSHT
ABA0912_2-50	50	2	12	122425.8	122425.8	0.00%					51	9	9.89	TCLSHT
ABA0018_2-50	50	2	18	175781.2	175781.2	0.00%					22	3	4.57	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%					36	5	5.74	TCLSHT
ABA0218_2-50	50	2	18	169735.9	169735.9	0.00%					44	6	14.95	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%					30	4	6.81	TCLSHT
ABA0418_2-50	50	2	18	182031.4	182031.4	0.02%					106	14	290.66	TCLSHT
ABA0518_2-50	50	2	18	181078.3	181078.3	0.00%					44	6	19.00	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%					30	4	6.65	TCLSHT
ABA0718_2-50	50	2	18	172462.2	172462.2	0.00%					30	4	9.38	TCLSHT
ABA0818_2-50	50	2	18	173619.2	173619.2	0.01%					44	6	18.54	TCLSHT
ABA0918_2-50	50	2	18	182988.0	182988.0	0.00%					50	7	31.59	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%					15	3	0.52	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%					30	6	2.07	TCLSHT
ABA026_4-6	6	4	6	7336.3	7336.3	0.03%					15	3	0.43	TCLSHT
ABA036_4-6	6	4	6	6706.7	6706.7	0.10%					15	3	0.54	TCLSHT
ABA046_4-6	6	4	6	5553.5	5553.5	0.00%					15	3	0.57	TCLSHT
ABA056_4-6	6	4	6	7986.3	7986.3	0.98%					15	3	1.46	TCLSHT
ABA066_4-6	6	4	6	6384.9	6384.9	0.28%					15	3	0.56	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%					10	2	0.25	TCLSHT
ABA086_4-6	6	4	6	5863.1	5863.1	0.07%					20	4	0.59	TCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA096_4-6	6	4	6	8598.5	8598.5	0.54%					15	3	0.58	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%					23	4	0.93	TCLSHT
ABA0112_4-6	6	4	12	15268.3	15268.3	0.00%					63	11	8.17	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%					40	7	3.23	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%					23	4	1.44	TCLSHT
ABA0412_4-6	6	4	12	12905.8	12905.8	0.32%					46	8	13.05	TCLSHT
ABA0512_4-6	6	4	12	15837.1	15837.1	0.13%					46	8	10.54	TCLSHT
ABA0612_4-6	6	4	12	12744.8	12744.8	0.00%					34	6	1.70	TCLSHT
ABA0712_4-6	6	4	12	14690.0	14690.0	0.03%					29	5	1.57	TCLSHT
ABA0812_4-6	6	4	12	12383.2	12383.2	0.18%					40	7	3.39	TCLSHT
ABA0912_4-6	6	4	12	14845.8	14845.8	0.00%					40	7	1.94	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%					38	5	6.44	TCLSHT
ABA0118_4-6	6	4	18	21740.0	21740.0	0.04%					74	10	13.73	TCLSHT
ABA0218_4-6	6	4	18	21432.5	21432.5	0.00%					60	8	7.73	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%					38	5	5.33	TCLSHT
ABA0418_4-6	6	4	18	19933.7	19933.7	0.00%					44	6	7.37	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.00%					46	6	20.89	TCLSHT
ABA0618_4-6	6	4	18	19784.2	19784.2	0.09%					30	4	4.47	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%					38	5	3.53	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%					30	4	3.01	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%					30	4	4.13	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%					15	3	1.00	TCLSHT
ABA016_4-12	12	4	6	15442.2	15442.2	0.02%					20	4	2.59	TCLSHT
ABA026_4-12	12	4	6	13157.6	13157.6	0.00%					15	3	0.91	TCLSHT
ABA036_4-12	12	4	6	12343.4	12343.4	0.02%					15	3	1.19	TCLSHT
ABA046_4-12	12	4	6	14390.6	14390.6	0.10%					10	2	0.70	TCLSHT
ABA056_4-12	12	4	6	14184.0	14184.0	0.01%					15	3	1.66	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%					10	2	0.36	TCLSHT
ABA076_4-12	12	4	6	12495.8	12495.8	0.12%					15	3	0.90	TCLSHT
ABA086_4-12	12	4	6	14701.0	14701.0	0.01%					15	3	0.76	TCLSHT
ABA096_4-12	12	4	6	13295.2	13295.2	0.19%					20	4	2.84	TCLSHT
ABA0012_4-12	12	4	12	24781.4	24781.4	0.10%					63	11	14.79	TCLSHT
ABA0112_4-12	12	4	12	28652.0	28652.0	0.01%					63	11	39.99	TCLSHT
ABA0212_4-12	12	4	12	26526.1	26526.1	0.00%					51	9	7.53	TCLSHT
ABA0312_4-12	12	4	12	25463.3	25463.3	0.00%					57	10	7.29	TCLSHT
ABA0412_4-12	12	4	12	27368.3	27368.3	0.00%					57	10	8.34	TCLSHT
ABA0512_4-12	12	4	12	27924.4	27924.4	0.00%					63	11	15.94	TCLSHT
ABA0612_4-12	12	4	12	24615.2	24615.2	0.00%					34	6	2.44	TCLSHT
ABA0712_4-12	12	4	12	26355.3	26355.3	0.00%					34	6	10.98	TCLSHT
ABA0812_4-12	12	4	12	28141.0	28141.0	0.00%					34	6	4.02	TCLSHT
ABA0912_4-12	12	4	12	28635.4	28635.4	0.00%					40	7	24.98	TCLSHT
ABA0018_4-12	12	4	18	38465.3	38465.3	0.04%					52	7	77.45	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.02%					60	8	104.45	TCLSHT
ABA0218_4-12	12	4	18	39454.4	39454.4	0.00%					38	5	13.24	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.00%					30	4	11.18	TCLSHT
ABA0418_4-12	12	4	18	40766.3	40766.3	0.00%					74	10	26.83	TCLSHT
ABA0518_4-12	12	4	18	41139.8	41139.8	0.04%					44	6	9.89	TCLSHT
ABA0618_4-12	12	4	18	37160.0	37160.0	0.00%					38	5	3.59	TCLSHT
ABA0718_4-12	12	4	18	41278.9	41278.9	0.01%					52	7	38.50	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%					30	4	7.22	TCLSHT
ABA0918_4-12	12	4	18	41702.9	41702.9	-0.06%					44	6	56.85	TCLSHT
ABA006_4-25	25	4	6	25598.9	25598.9	0.00%					20	4	2.53	TCLSHT
ABA016_4-25	25	4	6	29516.4	29516.4	0.06%					15	3	1.69	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%					15	3	4.57	TCLSHT
ABA036_4-25	25	4	6	26044.5	26044.5	0.04%					20	4	4.17	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%					10	2	0.61	TCLSHT
ABA056_4-25	25	4	6	30212.6	30212.6	0.15%					10	2	2.57	TCLSHT
ABA066_4-25	25	4	6	25382.8	25382.8	0.02%					15	3	1.08	TCLSHT
ABA076_4-25	25	4	6	27079.5	27079.5	0.04%					15	3	4.34	TCLSHT
ABA086_4-25	25	4	6	26279.4	26279.4	0.06%					15	3	1.15	TCLSHT
ABA096_4-25	25	4	6	27977.3	27977.3	0.07%					15	3	3.34	TCLSHT
ABA0012_4-25	25	4	12	53757.1	53757.1	0.01%					40	7	36.53	TCLSHT
ABA0112_4-25	25	4	12	56367.7	56367.7	0.00%					40	7	8.17	TCLSHT
ABA0212_4-25	25	4	12	53336.5	53336.5	0.00%					46	8	53.54	TCLSHT
ABA0312_4-25	25	4	12	54115.3	54115.3	0.00%					23	4	11.48	TCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0412_4-25	25	4	12	54964.8	54964.8	0.00%					34	6	6.53	TCLSHT
ABA0512_4-25	25	4	12	57158.7	57158.7	0.05%					40	7	17.20	TCLSHT
ABA0612_4-25	25	4	12	50717.9	50717.9	0.01%					28	5	4.31	TCLSHT
ABA0712_4-25	25	4	12	55589.8	55589.8	0.01%					51	9	47.18	TCLSHT
ABA0812_4-25	25	4	12	54116.9	54116.9	0.00%					23	4	8.32	TCLSHT
ABA0912_4-25	25	4	12	54983.4	54983.4	0.04%					52	9	54.75	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.01%					38	5	41.30	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%					52	7	16.62	TCLSHT
ABA0218_4-25	25	4	18	80988.5	80988.5	0.01%					38	5	58.87	TCLSHT
ABA0318_4-25	25	4	18	80507.0	80507.0	0.01%					60	8	37.06	TCLSHT
ABA0418_4-25	25	4	18	83335.2	83335.2	0.00%					30	4	4.27	TCLSHT
ABA0518_4-25	25	4	18	84453.4	84453.4	0.02%					38	5	23.23	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%					36	5	7.59	TCLSHT
ABA0718_4-25	25	4	18	82721.8	82721.8	0.00%					38	5	74.59	TCLSHT
ABA0818_4-25	25	4	18	78520.8	78520.8	0.00%					38	5	12.60	TCLSHT
ABA0918_4-25	25	4	18	82442.8	82442.8	0.00%					52	7	80.42	TCLSHT
ABA006_4-50	50	4	6	54643.6	54643.6	0.00%					15	3	2.07	TCLSHT
ABA016_4-50	50	4	6	55415.2	55415.2	0.02%					15	3	1.96	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%					10	2	1.77	TCLSHT
ABA036_4-50	50	4	6	55279.3	55279.3	0.03%					15	3	4.31	TCLSHT
ABA046_4-50	50	4	6	56931.4	56931.4	0.03%					15	3	10.19	TCLSHT
ABA056_4-50	50	4	6	57378.7	57378.7	0.00%					20	4	3.97	TCLSHT
ABA066_4-50	50	4	6	52880.3	52880.3	0.02%					15	3	2.58	TCLSHT
ABA076_4-50	50	4	6	51697.5	51697.5	0.03%					10	2	3.67	TCLSHT
ABA086_4-50	50	4	6	52932.3	52932.3	0.02%					10	2	4.23	TCLSHT
ABA096_4-50	50	4	6	60180.8	60180.8	0.03%					10	2	2.20	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.00%					29	5	47.92	TCLSHT
ABA0112_4-50	50	4	12	108464.7	108464.7	0.00%					34	6	8.22	TCLSHT
ABA0212_4-50	50	4	12	108019.1	108019.1	0.00%					23	4	10.57	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.00%					17	3	14.24	TCLSHT
ABA0412_4-50	50	4	12	109698.8	109698.8	0.00%					34	6	60.39	TCLSHT
ABA0512_4-50	50	4	12	112015.9	112015.9	0.00%					40	7	7.39	TCLSHT
ABA0612_4-50	50	4	12	104015.9	104015.9	0.00%					23	4	3.73	TCLSHT
ABA0712_4-50	50	4	12	106632.7	106632.7	0.00%					34	6	44.42	TCLSHT
ABA0812_4-50	50	4	12	106511.9	106511.9	0.00%					34	6	7.86	TCLSHT
ABA0912_4-50	50	4	12	114383.6	114383.6	0.00%					51	9	27.78	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%					30	4	27.42	TCLSHT
ABA0118_4-50	50	4	18	161812.6	161812.6	0.00%					46	6	19.49	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%					44	6	36.34	TCLSHT
ABA0318_4-50	50	4	18	163386.7	163386.7	0.02%					66	9	109.51	TCLSHT
ABA0418_4-50	50	4	18	166569.9	166569.9	-0.01%					98	13	229.88	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%					38	5	14.30	TCLSHT
ABA0618_4-50	50	4	18	156358.1	156358.1	0.00%					60	8	36.64	TCLSHT
ABA0718_4-50	50	4	18	161769.8	161769.8	-0.01%					68	9	167.04	TCLSHT
ABA0818_4-50	50	4	18	157354.6	157354.6	0.00%					22	3	6.92	TCLSHT
ABA0918_4-50	50	4	18	168526.1	168526.1	0.00%					22	3	15.33	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%					15	3	0.47	TCLSHT
ABA016_6-6	6	6	6	7316.6	7316.6	0.24%					20	4	1.72	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%					15	3	0.46	TCLSHT
ABA036_6-6	6	6	6	7420.1	7420.1	0.09%					15	3	0.57	TCLSHT
ABA046_6-6	6	6	6	8167.0	8167.0	0.15%					15	3	1.15	TCLSHT
ABA056_6-6	6	6	6	8047.7	8047.7	0.12%					15	3	1.18	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%					15	3	0.68	TCLSHT
ABA076_6-6	6	6	6	7779.2	7779.2	0.06%					15	3	1.25	TCLSHT
ABA086_6-6	6	6	6	6714.9	6714.9	0.00%					15	3	0.55	TCLSHT
ABA096_6-6	6	6	6	7596.8	7596.8	0.59%					15	3	1.17	TCLSHT
ABA0012_6-6	6	6	12	12136.4	12136.4	0.00%					23	4	0.89	TCLSHT
ABA0112_6-6	6	6	12	14293.3	14293.3	0.00%					52	9	4.74	TCLSHT
ABA0212_6-6	6	6	12	14330.1	14330.1	0.00%					34	6	3.31	TCLSHT
ABA0312_6-6	6	6	12	14837.7	14837.7	0.00%					46	8	3.67	TCLSHT
ABA0412_6-6	6	6	12	15048.0	15048.0	0.01%					51	9	6.43	TCLSHT
ABA0512_6-6	6	6	12	14768.7	14768.7	0.21%					34	6	5.96	TCLSHT
ABA0612_6-6	6	6	12	12786.0	12786.0	0.15%					40	7	6.33	TCLSHT
ABA0712_6-6	6	6	12	15302.5	15302.5	0.07%					34	6	6.91	TCLSHT
ABA0812_6-6	6	6	12	12617.6	12617.6	0.00%					40	7	6.09	TCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0912_6-6	6	6	12	14338.0	14338.0	0.00%					40	7	9.20	TCLSHT
ABA0018_6-6	6	6	18	17950.1	17950.1	0.00%					30	4	2.31	TCLSHT
ABA0218_6-6	6	6	18	20073.2	20073.2	0.00%					60	8	9.35	TCLSHT
ABA0318_6-6	6	6	18	20696.4	20696.4	0.13%					52	7	7.22	TCLSHT
ABA0418_6-6	6	6	18	22441.3	22441.3	0.02%					46	6	11.55	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%					46	6	7.25	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%					44	6	8.12	TCLSHT
ABA0718_6-6	6	6	18	22013.0	22013.0	0.01%					38	5	5.88	TCLSHT
ABA0818_6-6	6	6	18	20298.4	20298.4	0.20%					30	4	7.52	TCLSHT
ABA0918_6-6	6	6	18	21702.5	21702.5	0.00%					46	6	27.41	TCLSHT
ABA006_6-12	12	6	6	12812.5	12812.5	0.00%					15	3	1.25	TCLSHT
ABA016_6-12	12	6	6	13123.5	13123.5	0.08%					15	3	1.83	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%					20	4	1.29	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%					10	2	0.46	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%					15	3	0.93	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%					20	4	0.96	TCLSHT
ABA066_6-12	12	6	6	11702.1	11702.1	0.00%					15	3	1.33	TCLSHT
ABA076_6-12	12	6	6	13602.8	13602.8	0.22%					20	4	4.05	TCLSHT
ABA086_6-12	12	6	6	13529.0	13529.0	0.44%					15	3	2.91	TCLSHT
ABA096_6-12	12	6	6	14406.8	14406.8	0.02%					15	3	3.55	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%					35	6	5.34	TCLSHT
ABA0112_6-12	12	6	12	25698.4	25698.4	0.00%					29	5	6.01	TCLSHT
ABA0212_6-12	12	6	12	24225.2	24225.2	0.03%					46	8	44.62	TCLSHT
ABA0312_6-12	12	6	12	26589.5	26589.5	0.00%					51	9	7.86	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%					34	6	4.48	TCLSHT
ABA0512_6-12	12	6	12	26322.3	26322.3	0.00%					57	10	16.81	TCLSHT
ABA0612_6-12	12	6	12	23650.2	23650.2	0.05%					52	9	11.59	TCLSHT
ABA0712_6-12	12	6	12	28116.6	28116.6	0.02%					58	10	76.51	TCLSHT
ABA0812_6-12	12	6	12	25965.6	25965.6	0.00%					46	8	35.01	TCLSHT
ABA0912_6-12	12	6	12	27423.9	27423.9	0.00%					52	9	17.79	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%					38	5	15.62	TCLSHT
ABA0118_6-12	12	6	18	41269.9	41269.9	0.04%					52	7	24.07	TCLSHT
ABA0218_6-12	12	6	18	36881.3	36881.3	0.00%					44	6	25.42	TCLSHT
ABA0318_6-12	12	6	18	38518.2	38518.2	0.01%					30	4	10.23	TCLSHT
ABA0418_6-12	12	6	18	37126.2	37126.2	0.00%					38	5	9.58	TCLSHT
ABA0518_6-12	12	6	18	40636.6	40636.6	0.03%					52	7	32.63	TCLSHT
ABA0618_6-12	12	6	18	37440.7	37440.7	0.02%					74	10	45.65	TCLSHT
ABA0718_6-12	12	6	18	41594.9	41594.9	0.03%					60	8	99.14	TCLSHT
ABA0818_6-12	12	6	18	39500.8	39500.8	0.01%					74	10	137.57	TCLSHT
ABA0918_6-12	12	6	18	41320.6	41320.6	0.01%					52	7	43.56	TCLSHT
ABA006_6-25	25	6	6	25664.9	25664.9	0.02%					15	3	6.08	TCLSHT
ABA016_6-25	25	6	6	25434.6	25434.6	0.12%					15	3	11.15	TCLSHT
ABA026_6-25	25	6	6	26791.9	26791.9	0.00%					15	3	3.95	TCLSHT
ABA036_6-25	25	6	6	26823.6	26823.6	0.03%					20	4	20.85	TCLSHT
ABA046_6-25	25	6	6	28534.7	28534.7	0.06%					20	4	23.88	TCLSHT
ABA056_6-25	25	6	6	26307.5	26307.5	0.08%					20	4	11.61	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%					10	2	1.34	TCLSHT
ABA076_6-25	25	6	6	27981.4	27981.4	0.03%					20	4	6.94	TCLSHT
ABA086_6-25	25	6	6	26667.2	26667.2	0.00%					15	3	4.92	TCLSHT
ABA096_6-25	25	6	6	26356.7	26356.7	0.05%					20	4	4.13	TCLSHT
ABA0012_6-25	25	6	12	52459.6	52459.6	0.02%					57	10	103.82	TCLSHT
ABA0112_6-25	25	6	12	52630.5	52630.5	0.01%					46	8	112.53	TCLSHT
ABA0212_6-25	25	6	12	53995.3	53995.3	0.00%					57	10	23.48	TCLSHT
ABA0312_6-25	25	6	12	52442.2	52442.2	0.01%					57	10	116.32	TCLSHT
ABA0412_6-25	25	6	12	56014.6	56014.6	0.02%					57	10	155.41	TCLSHT
ABA0512_6-25	25	6	12	51790.4	51790.4	0.00%					52	9	72.57	TCLSHT
ABA0612_6-25	25	6	12	50984.3	50984.3	0.00%					23	4	4.81	TCLSHT
ABA0712_6-25	25	6	12	52727.8	52727.8	0.01%					46	8	51.05	TCLSHT
ABA0812_6-25	25	6	12	51185.7	51185.7	0.00%					52	9	21.17	TCLSHT
ABA0912_6-25	25	6	12	53578.4	53578.4	0.00%					29	5	18.10	TCLSHT
ABA0018_6-25	25	6	18	76420.0	76420.0	0.00%					46	6	168.23	TCLSHT
ABA0118_6-25	25	6	18	79411.2	79411.2	0.01%					30	4	58.49	TCLSHT
ABA0218_6-25	25	6	18	81688.0	81688.0	0.00%					52	7	71.41	TCLSHT
ABA0318_6-25	25	6	18	79833.3	79833.3	0.01%					60	8	337.42	TCLSHT
ABA0418_6-25	25	6	18	84948.2	84948.2	0.02%					60	8	309.26	TCLSHT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0518_6-25	25	6	18	80989.9	80989.9	0.00%					52	7	114.37	TCLSHT
ABA0618_6-25	25	6	18	76313.5	76313.5	0.00%					30	4	14.79	TCLSHT
ABA0718_6-25	25	6	18	77691.6	77691.6	0.00%					60	8	83.82	TCLSHT
ABA0818_6-25	25	6	18	75120.5	75120.5	0.00%					52	7	48.62	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%					52	7	36.05	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%					20	4	8.50	TCLSHT
ABA016_6-50	50	6	6	50641.4	50641.4	0.00%					15	3	10.25	TCLSHT
ABA026_6-50	50	6	6	52179.2	52179.2	0.00%					30	6	47.66	TCLSHT
ABA036_6-50	50	6	6	51690.8	51690.8	0.01%					15	3	5.57	TCLSHT
ABA046_6-50	50	6	6	54016.9	54016.9	0.03%					10	2	12.26	TCLSHT
ABA056_6-50	50	6	6	52786.1	52786.1	0.06%					20	4	16.24	TCLSHT
ABA066_6-50	50	6	6	51968.1	51968.1	0.02%					15	3	22.81	TCLSHT
ABA076_6-50	50	6	6	54019.2	54019.2	0.03%					10	2	3.09	TCLSHT
ABA086_6-50	50	6	6	50875.2	50875.2	0.02%					10	2	17.54	TCLSHT
ABA096_6-50	50	6	6	50684.2	50684.2	0.02%					10	2	4.76	TCLSHT
ABA0012_6-50	50	6	12	102500.4	102500.4	0.01%					34	6	51.01	TCLSHT
ABA0112_6-50	50	6	12	101531.2	101531.2	0.00%					46	8	57.34	TCLSHT
ABA0212_6-50	50	6	12	105121.9	105121.9	0.02%					57	10	268.04	TCLSHT
ABA0312_6-50	50	6	12	102568.4	102568.4	0.01%					40	7	33.59	TCLSHT
ABA0412_6-50	50	6	12	109754.5	109754.5	0.00%					46	8	120.06	TCLSHT
ABA0512_6-50	50	6	12	105393.0	105393.0	0.03%					63	11	132.98	TCLSHT
ABA0612_6-50	50	6	12	102021.4	102021.4	0.00%					46	8	142.30	TCLSHT
ABA0712_6-50	50	6	12	107574.4	107574.4	0.01%					51	9	62.13	TCLSHT
ABA0812_6-50	50	6	12	99894.7	99894.7	0.00%					46	8	44.50	TCLSHT
ABA0912_6-50	50	6	12	102317.4	102317.4	0.00%					63	11	89.22	TCLSHT
ABA0018_6-50	50	6	18	152829.5	152829.5	0.00%					44	6	132.15	TCLSHT
ABA0118_6-50	50	6	18	150963.8	150963.8	0.00%					30	4	60.96	TCLSHT
ABA0218_6-50	50	6	18	154482.5	154482.5	0.00%					38	5	138.55	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%					52	7	44.07	TCLSHT
ABA0418_6-50	50	6	18	164856.7	164856.7	0.00%					82	11	286.65	TCLSHT
ABA0518_6-50	50	6	18	155400.3	155400.3	0.00%					76	10	298.56	TCLSHT
ABA0618_6-50	50	6	18	154313.3	154313.3	0.03%					60	8	282.09	TCLSHT
ABA0718_6-50	50	6	18	159118.6	159118.6	0.00%					76	10	159.26	TCLSHT
ABA0818_6-50	50	6	18	151032.7	151032.7	0.00%					68	9	95.56	TCLSHT
ABA0918_6-50	50	6	18	154191.8	154191.8	0.00%					60	8	139.72	TCLSHT
ABB006_2-6	6	2	6	8233.3	8233.3	0.08%					20	4	0.61	TCLSLT
ABB006_2-6	6	2	6	8233.3	8233.3	0.08%					20	4	0.62	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%					15	3	0.34	TCLSLT
ABB026_2-6	6	2	6	7157.4	7157.4	0.00%					10	2	0.36	TCLSLT
ABB046_2-6	6	2	6	8047.5	8047.5	0.20%					20	4	0.66	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%					10	2	0.19	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%					15	3	0.37	TCLSLT
ABB076_2-6	6	2	6	9232.4	9232.4	0.58%					10	2	0.28	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%					10	2	0.19	TCLSLT
ABB096_2-6	6	2	6	7152.1	7152.1	0.00%					15	3	0.23	TCLSLT
ABB0012_2-6	6	2	12	15715.0	15715.0	0.00%					40	7	3.28	TCLSLT
ABB0112_2-6	6	2	12	13461.1	13461.1	0.02%					23	4	1.04	TCLSLT
ABB0212_2-6	6	2	12	14950.3	14950.3	0.00%					51	9	3.93	TCLSLT
ABB0412_2-6	6	2	12	14146.8	14146.8	0.05%					70	12	4.16	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%					23	4	0.72	TCLSLT
ABB0612_2-6	6	2	12	15105.9	15105.9	0.14%					17	3	0.97	TCLSLT
ABB0712_2-6	6	2	12	16715.8	16715.8	0.02%					51	9	2.41	TCLSLT
ABB0812_2-6	6	2	12	14190.2	14190.2	0.03%					29	5	1.22	TCLSLT
ABB0912_2-6	6	2	12	16158.4	16158.4	0.00%					57	10	1.86	TCLSLT
ABB0018_2-6	6	2	18	22001.6	22001.6	0.03%					38	5	7.50	TCLSLT
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%					44	6	2.47	TCLSLT
ABB0218_2-6	6	2	18	22591.8	22591.8	0.00%					60	8	4.53	TCLSLT
ABB0418_2-6	6	2	18	20388.2	20388.2	0.00%					60	8	7.15	TCLSLT
ABB0518_2-6	6	2	18	25221.1	25221.1	0.09%					38	5	3.17	TCLSLT
ABB0618_2-6	6	2	18	22957.3	22957.3	0.06%					38	5	2.76	TCLSLT
ABB0718_2-6	6	2	18	24512.5	24512.5	0.00%					76	10	8.22	TCLSLT
ABB0818_2-6	6	2	18	20987.9	20987.9	0.08%					52	7	3.19	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%					30	4	1.66	TCLSLT
ABB006_2-12	12	2	6	12756.1	12756.1	0.03%					10	2	0.33	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%					25	5	0.71	TCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB026_2-12	12	2	6	14417.9	14417.9	0.24%					20	4	1.04	TCLSLT
ABB036_2-12	12	2	6	16417.8	16417.8	0.14%					15	3	0.55	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%					10	2	0.42	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%					20	4	0.88	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%					15	3	0.60	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%					15	3	0.46	TCLSLT
ABB086_2-12	12	2	6	12982.3	12982.3	0.00%					10	2	0.58	TCLSLT
ABB096_2-12	12	2	6	16038.5	16038.5	0.04%					15	3	0.88	TCLSLT
ABB0012_2-12	12	2	12	26283.8	26283.8	0.00%					34	6	2.74	TCLSLT
ABB0112_2-12	12	2	12	27509.7	27509.7	0.00%					51	9	3.50	TCLSLT
ABB0212_2-12	12	2	12	27431.4	27431.4	0.03%					47	8	6.42	TCLSLT
ABB0312_2-12	12	2	12	31850.2	31850.2	0.00%					52	9	4.73	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%					29	5	2.22	TCLSLT
ABB0512_2-12	12	2	12	32200.7	32200.7	0.00%					34	6	3.51	TCLSLT
ABB0612_2-12	12	2	12	27346.8	27346.8	0.00%					40	7	2.22	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%					34	6	2.48	TCLSLT
ABB0812_2-12	12	2	12	26745.4	26745.4	0.00%					46	8	3.79	TCLSLT
ABB0912_2-12	12	2	12	31306.6	31306.6	-0.03%					46	8	10.21	TCLSLT
ABB0118_2-12	12	2	18	40639.2	40639.2	0.00%					74	10	12.96	TCLSLT
ABB0218_2-12	12	2	18	42006.5	42006.5	0.00%					60	8	19.48	TCLSLT
ABB0318_2-12	12	2	18	46479.3	46479.3	0.01%					90	12	19.68	TCLSLT
ABB0418_2-12	12	2	18	44295.9	44295.9	0.04%					38	5	7.10	TCLSLT
ABB0518_2-12	12	2	18	47422.7	47422.7	0.00%					52	7	8.75	TCLSLT
ABB0618_2-12	12	2	18	40758.7	40758.7	0.00%					60	8	6.51	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%					30	4	2.86	TCLSLT
ABB0818_2-12	12	2	18	41451.7	41451.7	0.00%					30	4	6.05	TCLSLT
ABB0918_2-12	12	2	18	47575.9	47575.9	0.02%					38	5	25.85	TCLSLT
ABB006_2-25	25	2	6	29265.1	29265.1	0.16%					15	3	0.83	TCLSLT
ABB016_2-25	25	2	6	30026.3	30026.3	0.24%					15	3	0.99	TCLSLT
ABB026_2-25	25	2	6	28774.2	28774.2	0.00%					15	3	1.13	TCLSLT
ABB036_2-25	25	2	6	30295.8	30295.8	0.07%					15	3	1.43	TCLSLT
ABB046_2-25	25	2	6	31560.1	31560.1	0.06%					15	3	1.12	TCLSLT
ABB056_2-25	25	2	6	31759.1	31759.1	0.04%					15	3	1.87	TCLSLT
ABB066_2-25	25	2	6	27896.2	27896.2	0.00%					10	2	0.36	TCLSLT
ABB076_2-25	25	2	6	31473.4	31473.4	0.11%					30	6	2.80	TCLSLT
ABB086_2-25	25	2	6	32358.5	32358.5	0.02%					15	3	1.14	TCLSLT
ABB096_2-25	25	2	6	33518.4	33518.4	0.15%					25	5	2.99	TCLSLT
ABB0012_2-25	25	2	12	58331.0	58331.0	0.01%					34	6	5.18	TCLSLT
ABB0112_2-25	25	2	12	61100.7	61100.7	0.02%					34	6	10.15	TCLSLT
ABB0212_2-25	25	2	12	56472.0	56472.0	0.05%					29	5	5.75	TCLSLT
ABB0312_2-25	25	2	12	59377.6	59377.6	0.05%					40	7	25.90	TCLSLT
ABB0412_2-25	25	2	12	59859.1	59859.1	0.00%					52	9	5.95	TCLSLT
ABB0512_2-25	25	2	12	65386.6	65386.6	0.03%					40	7	24.56	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%					28	5	1.49	TCLSLT
ABB0712_2-25	25	2	12	62937.8	62937.8	0.01%					40	7	13.31	TCLSLT
ABB0812_2-25	25	2	12	63131.2	63131.2	0.01%					45	8	26.01	TCLSLT
ABB0912_2-25	25	2	12	64154.6	64154.6	0.01%					29	5	8.07	TCLSLT
ABB0018_2-25	25	2	18	87097.0	87097.0	0.00%					44	6	6.08	TCLSLT
ABB0118_2-25	25	2	18	88774.1	88774.1	0.02%					38	5	17.82	TCLSLT
ABB0218_2-25	25	2	18	83571.8	83571.8	0.06%					66	9	21.78	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.00%					38	5	39.90	TCLSLT
ABB0418_2-25	25	2	18	90841.8	90841.8	0.00%					60	8	18.96	TCLSLT
ABB0518_2-25	25	2	18	95596.7	95596.7	-0.01%					114	15	318.73	TCLSLT
ABB0618_2-25	25	2	18	83620.4	83620.4	0.00%					30	4	3.98	TCLSLT
ABB0718_2-25	25	2	18	92454.5	92454.5	0.00%					66	9	81.71	TCLSLT
ABB0818_2-25	25	2	18	91827.2	91827.2	0.00%					82	11	119.53	TCLSLT
ABB0918_2-25	25	2	18	93412.4	93412.4	0.00%					46	6	23.58	TCLSLT
ABB006_2-50	50	2	6	58845.1	58845.1	0.00%					10	2	0.91	TCLSLT
ABB016_2-50	50	2	6	60378.9	60378.9	0.01%					10	2	1.12	TCLSLT
ABB026_2-50	50	2	6	56441.4	56441.4	0.02%					10	2	2.43	TCLSLT
ABB036_2-50	50	2	6	59469.3	59469.3	0.01%					10	2	0.94	TCLSLT
ABB046_2-50	50	2	6	61238.1	61238.1	0.04%					15	3	4.00	TCLSLT
ABB056_2-50	50	2	6	59593.3	59593.3	0.07%					10	2	1.57	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%					20	4	1.89	TCLSLT
ABB076_2-50	50	2	6	59130.1	59130.1	0.01%					20	4	4.57	TCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB086_2-50	50	2	6	60205.4	60205.4	0.03%					15	3	2.50	TCLSLT
ABB096_2-50	50	2	6	60810.4	60810.4	0.01%					15	3	1.46	TCLSLT
ABB0012_2-50	50	2	12	117397.8	117397.8	0.01%					45	8	8.20	TCLSLT
ABB0112_2-50	50	2	12	119972.8	119972.8	0.00%					28	5	4.11	TCLSLT
ABB0212_2-50	50	2	12	114329.9	114329.9	0.00%					40	7	27.19	TCLSLT
ABB0312_2-50	50	2	12	120117.7	120117.7	0.01%					75	13	30.29	TCLSLT
ABB0412_2-50	50	2	12	122596.4	122596.4	0.01%					64	11	71.22	TCLSLT
ABB0512_2-50	50	2	12	119633.2	119633.2	0.01%					46	8	26.80	TCLSLT
ABB0612_2-50	50	2	12	113741.0	113741.0	0.01%					40	7	7.57	TCLSLT
ABB0712_2-50	50	2	12	115026.3	115026.3	0.01%					51	9	57.64	TCLSLT
ABB0812_2-50	50	2	12	115700.5	115700.5	0.00%					51	9	29.14	TCLSLT
ABB0912_2-50	50	2	12	122636.8	122636.8	0.01%					57	10	13.34	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%					38	5	5.72	TCLSLT
ABB0118_2-50	50	2	18	178894.7	178894.7	0.00%					22	3	6.12	TCLSLT
ABB0218_2-50	50	2	18	170089.5	170089.5	0.01%					38	5	55.59	TCLSLT
ABB0318_2-50	50	2	18	181267.9	181267.9	0.01%					38	5	78.86	TCLSLT
ABB0418_2-50	50	2	18	182952.2	182952.2	0.00%					76	10	260.72	TCLSLT
ABB0518_2-50	50	2	18	181347.2	181347.2	0.00%					36	5	42.80	TCLSLT
ABB0618_2-50	50	2	18	171902.0	171902.0	0.00%					58	8	15.38	TCLSLT
ABB0718_2-50	50	2	18	172676.7	172676.7	0.00%					46	6	34.27	TCLSLT
ABB0818_2-50	50	2	18	173942.1	173942.1	0.00%					60	8	34.56	TCLSLT
ABB0918_2-50	50	2	18	183302.2	183302.2	0.00%					38	5	56.45	TCLSLT
ABB006_4-6	6	4	6	6457.8	6457.8	0.00%					15	3	0.66	TCLSLT
ABB016_4-6	6	4	6	7419.7	7419.7	0.04%					20	4	1.02	TCLSLT
ABB026_4-6	6	4	6	7463.2	7463.2	0.00%					15	3	0.53	TCLSLT
ABB036_4-6	6	4	6	6864.4	6864.4	0.65%					15	3	0.76	TCLSLT
ABB046_4-6	6	4	6	5696.2	5696.2	0.25%					15	3	0.85	TCLSLT
ABB056_4-6	6	4	6	8082.9	8082.9	0.79%					20	4	2.22	TCLSLT
ABB066_4-6	6	4	6	6508.5	6508.5	0.07%					15	3	0.58	TCLSLT
ABB076_4-6	6	4	6	7826.7	7826.7	0.03%					15	3	0.50	TCLSLT
ABB086_4-6	6	4	6	5927.7	5927.7	0.18%					15	3	0.50	TCLSLT
ABB096_4-6	6	4	6	8629.8	8629.8	0.22%					15	3	0.65	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%					23	4	1.29	TCLSLT
ABB0112_4-6	6	4	12	15530.8	15530.8	0.00%					23	4	3.48	TCLSLT
ABB0212_4-6	6	4	12	14793.4	14793.4	0.00%					51	9	4.73	TCLSLT
ABB0312_4-6	6	4	12	14718.6	14718.6	0.00%					23	4	1.45	TCLSLT
ABB0412_4-6	6	4	12	13197.0	13197.0	0.00%					35	6	6.08	TCLSLT
ABB0512_4-6	6	4	12	16288.3	16288.3	0.19%					40	7	19.58	TCLSLT
ABB0612_4-6	6	4	12	12954.4	12954.4	0.00%					45	8	2.68	TCLSLT
ABB0712_4-6	6	4	12	14887.1	14887.1	0.02%					23	4	1.94	TCLSLT
ABB0812_4-6	6	4	12	12606.1	12606.1	0.07%					29	5	2.00	TCLSLT
ABB0912_4-6	6	4	12	15125.7	15125.7	0.06%					51	9	3.82	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%					38	5	7.10	TCLSLT
ABB0118_4-6	6	4	18	22158.4	22158.4	0.00%					60	8	14.00	TCLSLT
ABB0218_4-6	6	4	18	21734.9	21734.9	0.00%					52	7	10.61	TCLSLT
ABB0318_4-6	6	4	18	22543.4	22543.4	0.01%					46	6	8.14	TCLSLT
ABB0418_4-6	6	4	18	20284.7	20284.7	0.00%					60	8	14.86	TCLSLT
ABB0518_4-6	6	4	18	24088.7	24088.7	0.00%					46	6	32.07	TCLSLT
ABB0618_4-6	6	4	18	20158.6	20158.6	0.01%					44	6	6.54	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%					52	7	11.60	TCLSLT
ABB0818_4-6	6	4	18	18410.0	18410.0	0.02%					46	6	5.02	TCLSLT
ABB0918_4-6	6	4	18	22403.9	22403.9	0.05%					30	4	4.44	TCLSLT
ABB006_4-12	12	4	6	13450.1	13450.1	0.03%					15	3	1.69	TCLSLT
ABB016_4-12	12	4	6	15650.6	15650.6	0.00%					25	5	6.48	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%					15	3	1.11	TCLSLT
ABB036_4-12	12	4	6	12518.8	12518.8	0.41%					15	3	2.24	TCLSLT
ABB046_4-12	12	4	6	14484.3	14484.3	0.00%					15	3	1.50	TCLSLT
ABB056_4-12	12	4	6	14352.4	14352.4	0.08%					15	3	2.44	TCLSLT
ABB066_4-12	12	4	6	12697.2	12697.2	0.00%					20	4	0.60	TCLSLT
ABB076_4-12	12	4	6	12606.8	12606.8	0.01%					15	3	1.35	TCLSLT
ABB086_4-12	12	4	6	14773.6	14773.6	0.02%					20	4	1.18	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%					25	5	2.86	TCLSLT
ABB0012_4-12	12	4	12	25219.2	25219.2	0.18%					41	7	37.17	TCLSLT
ABB0112_4-12	12	4	12	29037.6	29037.6	-0.02%					64	11	73.75	TCLSLT
ABB0212_4-12	12	4	12	26751.5	26751.5	0.00%					52	9	24.83	TCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0312_4-12	12	4	12	25865.1	25865.1	0.03%					68	12	38.05	TCLSLT
ABB0412_4-12	12	4	12	27599.0	27599.0	0.00%					57	10	15.57	TCLSLT
ABB0512_4-12	12	4	12	28247.2	28247.2	0.01%					69	12	84.29	TCLSLT
ABB0612_4-12	12	4	12	24754.1	24754.1	0.00%					46	8	3.87	TCLSLT
ABB0712_4-12	12	4	12	26665.9	26665.9	0.07%					46	8	15.83	TCLSLT
ABB0812_4-12	12	4	12	28372.8	28372.8	0.00%					57	10	9.14	TCLSLT
ABB0912_4-12	12	4	12	29008.1	29008.1	-0.02%					92	16	124.82	TCLSLT
ABB0018_4-12	12	4	18	38888.6	38888.6	-0.05%					38	5	68.05	TCLSLT
ABB0118_4-12	12	4	18	42634.0	42634.0	-0.06%					68	9	170.34	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.00%					52	7	32.76	TCLSLT
ABB0318_4-12	12	4	18	40361.1	40361.1	0.10%					52	7	137.77	TCLSLT
ABB0418_4-12	12	4	18	41075.8	41075.8	0.00%					60	8	44.44	TCLSLT
ABB0518_4-12	12	4	18	41439.8	41439.8	0.07%					38	5	52.29	TCLSLT
ABB0618_4-12	12	4	18	37393.7	37393.7	0.00%					82	11	15.30	TCLSLT
ABB0718_4-12	12	4	18	41735.8	41735.8	0.11%					52	7	66.60	TCLSLT
ABB0818_4-12	12	4	18	43192.5	43192.5	0.00%					38	5	23.63	TCLSLT
ABB0918_4-12	12	4	18	42110.9	42110.9	0.02%					60	8	142.84	TCLSLT
ABB006_4-25	25	4	6	25711.8	25711.8	0.02%					20	4	2.42	TCLSLT
ABB016_4-25	25	4	6	29649.4	29649.4	0.08%					15	3	1.77	TCLSLT
ABB026_4-25	25	4	6	27876.6	27876.6	0.08%					20	4	23.96	TCLSLT
ABB036_4-25	25	4	6	26296.8	26296.8	0.02%					20	4	8.09	TCLSLT
ABB046_4-25	25	4	6	26760.7	26760.7	0.01%					15	3	1.31	TCLSLT
ABB056_4-25	25	4	6	30272.1	30272.1	0.01%					15	3	3.64	TCLSLT
ABB066_4-25	25	4	6	25487.5	25487.5	0.06%					20	4	1.58	TCLSLT
ABB076_4-25	25	4	6	27321.3	27321.3	0.00%					20	4	8.82	TCLSLT
ABB086_4-25	25	4	6	26363.1	26363.1	0.05%					10	2	1.41	TCLSLT
ABB096_4-25	25	4	6	28093.2	28093.2	0.05%					15	3	2.75	TCLSLT
ABB0012_4-25	25	4	12	54091.3	54091.3	-0.02%					29	5	65.84	TCLSLT
ABB0112_4-25	25	4	12	56537.5	56537.5	0.00%					58	10	19.78	TCLSLT
ABB0212_4-25	25	4	12	53622.5	53622.5	0.03%					52	9	127.78	TCLSLT
ABB0312_4-25	25	4	12	54456.7	54456.7	0.00%					46	8	73.85	TCLSLT
ABB0412_4-25	25	4	12	55098.5	55098.5	0.00%					28	5	6.81	TCLSLT
ABB0512_4-25	25	4	12	57290.0	57290.0	0.00%					23	4	31.59	TCLSLT
ABB0612_4-25	25	4	12	50859.0	50859.0	0.00%					46	8	9.86	TCLSLT
ABB0712_4-25	25	4	12	55946.4	55946.4	0.00%					69	12	162.98	TCLSLT
ABB0812_4-25	25	4	12	54344.9	54344.9	0.02%					46	8	69.78	TCLSLT
ABB0912_4-25	25	4	12	55256.5	55256.5	0.00%					57	10	130.53	TCLSLT
ABB0018_4-25	25	4	18	78506.1	78506.1	0.00%					74	10	208.05	TCLSLT
ABB0118_4-25	25	4	18	84173.0	84173.0	0.01%					58	8	85.40	TCLSLT
ABB0218_4-25	25	4	18	81372.7	81372.7	-0.01%					66	9	352.07	TCLSLT
ABB0318_4-25	25	4	18	80989.9	80989.9	0.01%					82	11	210.28	TCLSLT
ABB0418_4-25	25	4	18	83484.4	83484.4	0.01%					30	4	12.08	TCLSLT
ABB0518_4-25	25	4	18	84724.9	84724.9	0.07%					52	7	111.94	TCLSLT
ABB0618_4-25	25	4	18	77583.7	77583.7	0.01%					38	5	12.04	TCLSLT
ABB0718_4-25	25	4	18	83245.3	83245.3	0.00%					60	8	217.89	TCLSLT
ABB0818_4-25	25	4	18	78741.5	78741.5	0.00%					104	14	90.43	TCLSLT
ABB0918_4-25	25	4	18	82802.1	82802.1	0.00%					60	8	180.27	TCLSLT
ABB006_4-50	50	4	6	54786.5	54786.5	0.01%					10	2	4.84	TCLSLT
ABB016_4-50	50	4	6	55555.5	55555.5	0.02%					10	2	3.98	TCLSLT
ABB026_4-50	50	4	6	56239.2	56239.2	0.02%					15	3	11.27	TCLSLT
ABB036_4-50	50	4	6	55563.6	55563.6	0.05%					15	3	17.02	TCLSLT
ABB046_4-50	50	4	6	57291.6	57291.6	0.04%					20	4	51.31	TCLSLT
ABB056_4-50	50	4	6	57508.3	57508.3	0.00%					15	3	5.15	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%					10	2	1.76	TCLSLT
ABB076_4-50	50	4	6	51865.3	51865.3	0.02%					25	5	7.97	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%					15	3	5.05	TCLSLT
ABB096_4-50	50	4	6	60285.4	60285.4	0.02%					15	3	5.89	TCLSLT
ABB0012_4-50	50	4	12	110823.4	110823.4	0.00%					40	7	95.29	TCLSLT
ABB0112_4-50	50	4	12	108632.0	108632.0	0.01%					74	13	66.77	TCLSLT
ABB0212_4-50	50	4	12	108286.6	108286.6	0.00%					52	9	86.05	TCLSLT
ABB0312_4-50	50	4	12	110649.7	110649.7	0.03%					47	8	126.11	TCLSLT
ABB0412_4-50	50	4	12	110161.5	110161.5	0.01%					40	7	105.35	TCLSLT
ABB0512_4-50	50	4	12	112144.5	112144.5	0.01%					40	7	30.22	TCLSLT
ABB0612_4-50	50	4	12	104150.2	104150.2	0.00%					34	6	10.13	TCLSLT
ABB0712_4-50	50	4	12	107038.5	107038.5	-0.01%					57	10	204.18	TCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0812_4-50	50	4	12	106675.5	106675.5	0.00%					63	11	36.10	TCLSLT
ABB0912_4-50	50	4	12	114586.7	114586.7	-0.02%					57	10	64.49	TCLSLT
ABB0018_4-50	50	4	18	160416.9	160416.9	-0.01%					52	7	137.95	TCLSLT
ABB0118_4-50	50	4	18	162045.4	162045.4	0.00%					38	5	47.78	TCLSLT
ABB0218_4-50	50	4	18	163370.1	163370.1	0.00%					44	6	113.25	TCLSLT
ABB0318_4-50	50	4	18	163931.2	163931.2	0.00%					90	12	461.91	TCLSLT
ABB0418_4-50	50	4	18	167295.6	167295.6	0.00%					60	8	386.59	TCLSLT
ABB0518_4-50	50	4	18	168377.2	168377.2	0.00%					52	7	95.52	TCLSLT
ABB0618_4-50	50	4	18	156591.8	156591.8	0.00%					68	9	135.31	TCLSLT
ABB0718_4-50	50	4	18	162349.2	162349.2	0.01%					60	8	261.07	TCLSLT
ABB0818_4-50	50	4	18	157550.2	157550.2	0.00%					60	8	65.77	TCLSLT
ABB0918_4-50	50	4	18	168758.0	168758.0	0.00%					60	8	134.54	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%					15	3	0.62	TCLSLT
ABB026_6-6	6	6	6	7116.9	7116.9	0.21%					15	3	1.36	TCLSLT
ABB036_6-6	6	6	6	7644.4	7644.4	0.08%					20	4	0.80	TCLSLT
ABB046_6-6	6	6	6	8282.3	8282.3	0.22%					15	3	2.06	TCLSLT
ABB056_6-6	6	6	6	8227.1	8227.1	0.29%					15	3	1.02	TCLSLT
ABB066_6-6	6	6	6	6868.9	6868.9	0.01%					20	4	1.21	TCLSLT
ABB076_6-6	6	6	6	7944.1	7944.1	0.02%					15	3	0.91	TCLSLT
ABB086_6-6	6	6	6	6933.5	6933.5	0.00%					20	4	1.34	TCLSLT
ABB096_6-6	6	6	6	7803.0	7803.0	0.20%					20	4	2.29	TCLSLT
ABB0012_6-6	6	6	12	12403.3	12403.3	0.09%					34	6	2.58	TCLSLT
ABB0212_6-6	6	6	12	14581.9	14581.9	0.00%					57	10	7.29	TCLSLT
ABB0312_6-6	6	6	12	15078.8	15078.8	0.00%					29	5	2.97	TCLSLT
ABB0412_6-6	6	6	12	15453.4	15453.4	0.02%					46	8	9.07	TCLSLT
ABB0512_6-6	6	6	12	15020.3	15020.3	0.01%					34	6	2.79	TCLSLT
ABB0612_6-6	6	6	12	13142.6	13142.6	0.07%					52	9	11.75	TCLSLT
ABB0712_6-6	6	6	12	15512.0	15512.0	0.01%					40	7	4.56	TCLSLT
ABB0812_6-6	6	6	12	13031.7	13031.7	0.12%					64	11	8.93	TCLSLT
ABB0912_6-6	6	6	12	14772.9	14772.9	0.00%					35	6	6.48	TCLSLT
ABB0018_6-6	6	6	18	18385.4	18385.4	0.00%					46	6	14.15	TCLSLT
ABB0218_6-6	6	6	18	20318.1	20318.1	0.00%					30	4	3.96	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%					38	5	14.98	TCLSLT
ABB0418_6-6	6	6	18	23159.0	23159.0	0.00%					82	11	37.11	TCLSLT
ABB0518_6-6	6	6	18	22881.4	22881.4	0.01%					54	7	23.05	TCLSLT
ABB0618_6-6	6	6	18	20655.6	20655.6	0.00%					66	9	27.52	TCLSLT
ABB0718_6-6	6	6	18	22432.3	22432.3	0.05%					58	8	12.18	TCLSLT
ABB0818_6-6	6	6	18	20807.5	20807.5	0.09%					60	8	13.00	TCLSLT
ABB0918_6-6	6	6	18	22349.0	22349.0	0.01%					60	8	53.03	TCLSLT
ABB006_6-12	12	6	6	12926.7	12926.7	0.00%					15	3	1.87	TCLSLT
ABB016_6-12	12	6	6	13331.5	13331.5	0.01%					20	4	2.89	TCLSLT
ABB026_6-12	12	6	6	12268.6	12268.6	0.24%					20	4	2.51	TCLSLT
ABB036_6-12	12	6	6	13151.6	13151.6	0.03%					20	4	1.71	TCLSLT
ABB046_6-12	12	6	6	12862.7	12862.7	0.00%					15	3	1.19	TCLSLT
ABB056_6-12	12	6	6	12514.8	12514.8	0.44%					15	3	1.19	TCLSLT
ABB066_6-12	12	6	6	11861.4	11861.4	0.13%					20	4	2.09	TCLSLT
ABB076_6-12	12	6	6	13880.1	13880.1	0.16%					20	4	6.80	TCLSLT
ABB086_6-12	12	6	6	13731.7	13731.7	0.17%					15	3	5.04	TCLSLT
ABB096_6-12	12	6	6	14613.5	14613.5	0.04%					20	4	16.08	TCLSLT
ABB0012_6-12	12	6	12	24484.2	24484.2	0.00%					52	9	15.39	TCLSLT
ABB0112_6-12	12	6	12	26026.6	26026.6	0.05%					29	5	22.50	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%					40	7	39.86	TCLSLT
ABB0312_6-12	12	6	12	26919.5	26919.5	0.00%					40	7	22.24	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%					34	6	12.76	TCLSLT
ABB0512_6-12	12	6	12	26646.9	26646.9	0.00%					46	8	20.43	TCLSLT
ABB0612_6-12	12	6	12	23906.1	23906.1	0.02%					52	9	17.98	TCLSLT
ABB0712_6-12	12	6	12	28598.4	28598.4	-0.01%					58	10	129.28	TCLSLT
ABB0812_6-12	12	6	12	26510.3	26510.3	0.11%					29	5	47.68	TCLSLT
ABB0912_6-12	12	6	12	27760.0	27760.0	0.00%					52	9	46.24	TCLSLT
ABB0018_6-12	12	6	18	36869.7	36869.7	0.00%					52	7	22.29	TCLSLT
ABB0118_6-12	12	6	18	41708.6	41708.6	0.00%					52	7	52.48	TCLSLT
ABB0218_6-12	12	6	18	37584.6	37584.6	0.04%					44	6	158.59	TCLSLT
ABB0318_6-12	12	6	18	38932.0	38932.0	0.02%					74	10	41.56	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%					30	4	10.77	TCLSLT
ABB0518_6-12	12	6	18	41016.7	41016.7	0.00%					54	7	66.99	TCLSLT

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Tabela IX - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0618_6-12	12	6	18	37907.8	37907.8	0.08%					52	7	107.02	TCLSLT
ABB0718_6-12	12	6	18	42306.7	42306.7	0.03%					60	8	226.09	TCLSLT
ABB0818_6-12	12	6	18	40347.9	40347.9	0.07%					38	5	225.50	TCLSLT
ABB0918_6-12	12	6	18	41858.7	41858.7	-0.04%					68	9	142.70	TCLSLT
ABB006_6-25	25	6	6	25938.3	25938.3	0.10%					25	5	46.65	TCLSLT
ABB016_6-25	25	6	6	25644.6	25644.6	0.00%					30	6	73.35	TCLSLT
ABB026_6-25	25	6	6	26944.3	26944.3	0.00%					20	4	8.05	TCLSLT
ABB036_6-25	25	6	6	27211.8	27211.8	0.06%					20	4	29.52	TCLSLT
ABB046_6-25	25	6	6	28826.3	28826.3	0.03%					20	4	51.76	TCLSLT
ABB056_6-25	25	6	6	26517.4	26517.4	0.03%					15	3	12.23	TCLSLT
ABB066_6-25	25	6	6	25489.3	25489.3	0.04%					15	3	2.60	TCLSLT
ABB076_6-25	25	6	6	28154.3	28154.3	0.07%					15	3	6.58	TCLSLT
ABB086_6-25	25	6	6	26880.7	26880.7	0.03%					15	3	16.84	TCLSLT
ABB096_6-25	25	6	6	26598.0	26598.0	0.10%					15	3	17.86	TCLSLT
ABB0012_6-25	25	6	12	52860.7	52860.7	0.00%					40	7	136.13	TCLSLT
ABB0112_6-25	25	6	12	53090.2	53090.2	-0.02%					103	18	458.20	TCLSLT
ABB0212_6-25	25	6	12	54294.1	54294.1	0.00%					40	7	75.63	TCLSLT
ABB0312_6-25	25	6	12	53174.0	53185.2	0.07%					63	11	475.18	TCLSLT
ABB0412_6-25	25	6	12	56448.1	56448.1	-0.01%					35	6	199.14	TCLSLT
ABB0512_6-25	25	6	12	52155.9	52155.9	0.04%					46	8	132.31	TCLSLT
ABB0612_6-25	25	6	12	51221.9	51221.9	0.00%					46	8	37.38	TCLSLT
ABB0712_6-25	25	6	12	53109.0	53109.0	0.00%					63	11	187.48	TCLSLT
ABB0812_6-25	25	6	12	51562.6	51562.6	0.01%					29	5	64.90	TCLSLT
ABB0912_6-25	25	6	12	54000.6	54000.6	0.00%					46	8	114.81	TCLSLT
ABB0018_6-25	25	6	18	77162.3	77162.3	0.01%					46	6	325.85	TCLSLT
ABB0118_6-25	25	6	18	79996.5	79996.5	-0.02%					54	7	455.94	TCLSLT
ABB0218_6-25	25	6	18	82243.1	82243.1	0.02%					60	8	422.53	TCLSLT
ABB0318_6-25	25	6	18	80919.1	80919.1	0.05%					54	7	535.02	TCLSLT
ABB0418_6-25	25	6	18	85556.3	85556.3	0.02%					52	7	483.17	TCLSLT
ABB0518_6-25	25	6	18	81439.7	81502.9	-0.06%					105	14	602.13	TCLSLT
ABB0618_6-25	25	6	18	76562.2	76562.2	0.00%					74	10	113.08	TCLSLT
ABB0718_6-25	25	6	18	78265.7	78301.1	-0.01%					87	12	601.99	TCLSLT
ABB0818_6-25	25	6	18	75617.7	75617.7	0.00%					60	8	266.83	TCLSLT
ABB0918_6-25	25	6	18	81836.1	81836.1	0.01%					52	7	267.27	TCLSLT
ABB006_6-50	50	6	6	50834.7	50834.7	0.02%					25	5	44.27	TCLSLT
ABB016_6-50	50	6	6	50945.5	50945.5	0.03%					20	4	50.12	TCLSLT
ABB026_6-50	50	6	6	52528.6	52528.6	0.01%					20	4	57.36	TCLSLT
ABB036_6-50	50	6	6	51904.1	51904.1	0.02%					15	3	15.83	TCLSLT
ABB046_6-50	50	6	6	54378.9	54378.9	0.00%					15	3	64.24	TCLSLT
ABB056_6-50	50	6	6	53099.3	53099.3	0.04%					25	5	57.62	TCLSLT
ABB066_6-50	50	6	6	52436.7	52436.7	0.01%					25	5	86.17	TCLSLT
ABB076_6-50	50	6	6	54128.8	54128.8	0.00%					15	3	6.08	TCLSLT
ABB086_6-50	50	6	6	51234.6	51234.6	0.04%					20	4	44.62	TCLSLT
ABB096_6-50	50	6	6	50888.6	50888.6	0.01%					20	4	35.24	TCLSLT
ABB0012_6-50	50	6	12	102814.1	102814.1	0.00%					17	3	92.53	TCLSLT
ABB0112_6-50	50	6	12	101926.3	101926.3	-0.01%					69	12	267.41	TCLSLT
ABB0212_6-50	50	6	12	105737.4	105737.4	-0.02%					23	4	169.59	TCLSLT
ABB0312_6-50	50	6	12	103013.3	103013.3	0.02%					52	9	213.81	TCLSLT
ABB0412_6-50	50	6	12	110338.3	110338.3	0.01%					69	12	405.43	TCLSLT
ABB0512_6-50	50	6	12	105909.6	105909.6	-0.01%					63	11	181.17	TCLSLT
ABB0612_6-50	50	6	12	102907.5	102918.4	-0.03%					52	9	365.32	TCLSLT
ABB0712_6-50	50	6	12	107882.4	107882.4	0.01%					35	6	141.64	TCLSLT
ABB0812_6-50	50	6	12	100282.4	100282.4	0.01%					86	15	313.98	TCLSLT
ABB0912_6-50	50	6	12	102785.3	102785.3	0.02%					57	10	197.06	TCLSLT
ABB0018_6-50	50	6	18	153309.9	153482.3	0.00%					71	10	605.02	TCLSLT
ABB0118_6-50	50	6	18	151576.2	151576.2	-0.01%					60	8	375.50	TCLSLT
ABB0218_6-50	50	6	18	155207.9	155207.9	-0.01%					54	7	446.50	TCLSLT
ABB0318_6-50	50	6	18	154820.6	154820.6	0.00%					46	6	368.04	TCLSLT
ABB0418_6-50	50	6	18	165839.1	165839.1	0.00%					46	6	459.56	TCLSLT
ABB0518_6-50	50	6	18	156165.7	156165.7	0.01%					68	9	567.91	TCLSLT
ABB0618_6-50	50	6	18	155468.5	155468.5	-0.01%					46	6	440.14	TCLSLT
ABB0718_6-50	50	6	18	159452.9	159452.9	0.00%					60	8	265.57	TCLSLT
ABB0818_6-50	50	6	18	151695.0	151695.0	0.00%					68	9	553.30	TCLSLT
ABB0918_6-50	50	6	18	154652.9	154652.9	0.00%					38	5	291.95	TCLSLT

Tabela X: Resultados por instância ($m/r/n$) - $HCGFO_{din}$

Instância	N	R	M	LI	LS	gap	HCGtime	THtime	Heur. Const.	FOtempo	FOiter	FOrounds	Tempo Total	Classe
NAA006_2-6	6	2	6	13637.5	13637.5	1.06%					10	2	0.41	NCHSHT
NAA016_2-6	6	2	6	10963.4	10963.4	1.10%					10	2	0.45	NCHSHT
NAA026_2-6	6	2	6	14368.7	14368.7	0.64%					15	3	0.43	NCHSHT
NAA036_2-6	6	2	6	14675.0	14675.0	0.57%					15	3	0.50	NCHSHT
NAA046_2-6	6	2	6	15674.7	15674.7	1.83%					15	3	0.57	NCHSHT
NAA056_2-6	6	2	6	17033.5	17033.5	5.23%					10	2	0.35	NCHSHT
NAA066_2-6	6	2	6	16135.1	16135.1	5.01%					15	3	0.79	NCHSHT
NAA076_2-6	6	2	6	16170.5	16170.5	0.33%					15	3	0.48	NCHSHT
NAA086_2-6	6	2	6	12980.2	12980.2	2.63%					15	3	0.43	NCHSHT
NAA096_2-6	6	2	6	12810.1	12810.1	0.90%					20	4	0.49	NCHSHT
NAA0012_2-6	6	2	12	24112.6	24112.6	1.39%					29	5	2.17	NCHSHT
NAA0112_2-6	6	2	12	23135.5	23135.5	0.97%					41	7	2.94	NCHSHT
NAA0212_2-6	6	2	12	26283.1	26283.1	0.19%					23	4	1.45	NCHSHT
NAA0312_2-6	6	2	12	25850.0	25850.0	0.23%					58	10	2.81	NCHSHT
NAA0412_2-6	6	2	12	25955.1	25955.1	1.89%					63	11	7.54	NCHSHT
NAA0512_2-6	6	2	12	29968.6	29968.6	0.59%					52	9	3.26	NCHSHT
NAA0612_2-6	6	2	12	27212.7	27212.7	0.83%					51	9	2.97	NCHSHT
NAA0712_2-6	6	2	12	26493.8	26493.8	0.18%					29	5	2.15	NCHSHT
NAA0812_2-6	6	2	12	21779.2	21779.2	0.67%					28	5	1.68	NCHSHT
NAA0912_2-6	6	2	12	26541.9	26541.9	1.23%					34	6	2.49	NCHSHT
NAA0018_2-6	6	2	18	32551.3	32551.3	0.81%					52	7	8.20	NCHSHT
NAA0118_2-6	6	2	18	33245.6	33245.6	0.89%					52	7	7.94	NCHSHT
NAA0218_2-6	6	2	18	38995.1	38995.1	1.09%					38	5	4.23	NCHSHT
NAA0318_2-6	6	2	18	39138.5	39138.5	0.25%					90	12	8.21	NCHSHT
NAA0418_2-6	6	2	18	36337.8	36337.8	1.42%					62	8	9.43	NCHSHT
NAA0518_2-6	6	2	18	41827.4	41827.4	1.08%					54	7	6.73	NCHSHT
NAA0618_2-6	6	2	18	38072.9	38072.9	0.23%					30	4	4.21	NCHSHT
NAA0718_2-6	6	2	18	38613.0	38613.0	1.27%					52	7	7.09	NCHSHT
NAA0818_2-6	6	2	18	31385.5	31385.5	0.43%					38	5	3.28	NCHSHT
NAA0918_2-6	6	2	18	35469.1	35469.1	0.89%					54	7	4.79	NCHSHT
NAA006_2-12	12	2	6	20899.0	20899.0	0.00%					10	2	0.61	NCHSHT
NAA016_2-12	12	2	6	23669.7	23669.7	0.01%					25	5	1.25	NCHSHT
NAA026_2-12	12	2	6	25321.1	25321.1	2.35%					15	3	0.92	NCHSHT
NAA036_2-12	12	2	6	29204.2	29204.2	0.83%					15	3	0.97	NCHSHT
NAA046_2-12	12	2	6	24869.3	24869.3	0.29%					20	4	1.01	NCHSHT
NAA056_2-12	12	2	6	28938.4	28938.4	1.46%					10	2	0.81	NCHSHT
NAA066_2-12	12	2	6	25388.1	25388.1	2.06%					10	2	0.74	NCHSHT
NAA076_2-12	12	2	6	25225.7	25225.7	0.90%					20	4	1.17	NCHSHT
NAA086_2-12	12	2	6	22924.5	22924.5	0.17%					15	3	0.70	NCHSHT
NAA096_2-12	12	2	6	26778.7	26778.7	1.03%					25	5	1.59	NCHSHT
NAA0012_2-12	12	2	12	40464.4	40464.4	0.18%					23	4	2.53	NCHSHT
NAA0112_2-12	12	2	12	41317.7	41317.7	0.09%					34	6	3.35	NCHSHT
NAA0212_2-12	12	2	12	43333.6	43333.6	0.75%					69	12	12.54	NCHSHT
NAA0312_2-12	12	2	12	52602.3	52602.3	0.33%					63	11	10.74	NCHSHT
NAA0412_2-12	12	2	12	45047.8	45047.8	0.38%					46	8	3.80	NCHSHT
NAA0512_2-12	12	2	12	52080.3	52080.3	1.31%					29	5	5.85	NCHSHT
NAA0612_2-12	12	2	12	45587.7	45587.7	1.55%					57	10	9.04	NCHSHT
NAA0712_2-12	12	2	12	47088.0	47088.0	0.90%					23	4	3.91	NCHSHT
NAA0812_2-12	12	2	12	41687.2	41687.2	0.39%					45	8	4.81	NCHSHT
NAA0912_2-12	12	2	12	49689.8	49689.8	0.17%					79	14	21.51	NCHSHT
NAA0018_2-12	12	2	18	59821.2	59821.2	0.17%					58	8	10.93	NCHSHT
NAA0118_2-12	12	2	18	61694.1	61694.1	0.58%					60	8	12.57	NCHSHT
NAA0218_2-12	12	2	18	65288.2	65288.2	1.18%					98	13	34.74	NCHSHT
NAA0318_2-12	12	2	18	74888.5	74888.5	0.34%					52	7	17.49	NCHSHT
NAA0418_2-12	12	2	18	67552.0	67552.0	0.42%					44	6	11.07	NCHSHT
NAA0518_2-12	12	2	18	73603.2	73603.2	0.21%					60	8	27.77	NCHSHT
NAA0618_2-12	12	2	18	65013.8	65013.8	0.21%					98	13	19.36	NCHSHT
NAA0718_2-12	12	2	18	67357.6	67357.6	0.07%					38	5	4.40	NCHSHT
NAA0818_2-12	12	2	18	64111.1	64111.1	0.23%					52	7	11.67	NCHSHT
NAA0918_2-12	12	2	18	72501.1	72501.1	0.50%					60	8	26.63	NCHSHT
NAA006_2-25	25	2	6	47710.7	47710.7	0.13%					10	2	1.44	NCHSHT
NAA016_2-25	25	2	6	48870.2	48870.2	0.40%					10	2	1.31	NCHSHT
NAA026_2-25	25	2	6	50989.0	50989.0	0.42%					20	4	2.61	NCHSHT
NAA036_2-25	25	2	6	52946.6	52946.6	0.54%					10	2	1.55	NCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA046_2-25	25	2	6	53551.6	53551.6	0.03%					15	3	1.87	NCHSHT
NAA056_2-25	25	2	6	56772.1	56772.1	0.67%					15	3	2.72	NCHSHT
NAA066_2-25	25	2	6	46023.6	46023.6	0.16%					15	3	1.48	NCHSHT
NAA076_2-25	25	2	6	51433.8	51433.8	0.20%					15	3	2.88	NCHSHT
NAA086_2-25	25	2	6	53877.4	53877.4	0.05%					20	4	2.01	NCHSHT
NAA096_2-25	25	2	6	58995.8	58995.8	0.10%					10	2	1.76	NCHSHT
NAA0012_2-25	25	2	12	88565.5	88565.5	0.13%					52	9	12.57	NCHSHT
NAA0112_2-25	25	2	12	93805.4	93805.4	0.05%					51	9	16.29	NCHSHT
NAA0212_2-25	25	2	12	90560.6	90560.6	0.33%					51	9	17.78	NCHSHT
NAA0312_2-25	25	2	12	94486.3	94486.3	0.29%					35	6	23.33	NCHSHT
NAA0412_2-25	25	2	12	92865.7	92865.7	0.01%					46	8	7.83	NCHSHT
NAA0512_2-25	25	2	12	105819.3	105819.3	0.21%					58	10	40.51	NCHSHT
NAA0612_2-25	25	2	12	89979.2	89979.2	0.24%					69	12	21.81	NCHSHT
NAA0712_2-25	25	2	12	95902.4	95902.4	0.06%					74	13	26.92	NCHSHT
NAA0812_2-25	25	2	12	98031.9	98031.9	0.12%					41	7	12.29	NCHSHT
NAA0912_2-25	25	2	12	103361.8	103361.8	0.18%					64	11	31.31	NCHSHT
NAA0018_2-25	25	2	18	128847.1	128847.1	0.00%					60	8	39.67	NCHSHT
NAA0118_2-25	25	2	18	132843.3	132843.3	0.28%					52	7	26.10	NCHSHT
NAA0218_2-25	25	2	18	130256.3	130256.3	0.16%					46	6	40.07	NCHSHT
NAA0318_2-25	25	2	18	142250.1	142250.1	0.02%					52	7	47.12	NCHSHT
NAA0418_2-25	25	2	18	136742.5	136742.5	0.18%					38	5	43.37	NCHSHT
NAA0518_2-25	25	2	18	148708.7	148708.7	0.03%					68	9	77.70	NCHSHT
NAA0618_2-25	25	2	18	126973.3	126973.3	0.19%					38	5	39.73	NCHSHT
NAA0718_2-25	25	2	18	141072.0	141072.0	0.31%					38	5	66.17	NCHSHT
NAA0818_2-25	25	2	18	139356.7	139356.7	0.04%					82	11	69.07	NCHSHT
NAA0918_2-25	25	2	18	148104.2	148104.2	0.21%					60	8	55.05	NCHSHT
NAA006_2-50	50	2	6	94162.4	94162.4	0.17%					10	2	3.26	NCHSHT
NAA016_2-50	50	2	6	97938.2	97938.2	0.04%					15	3	2.37	NCHSHT
NAA026_2-50	50	2	6	94534.9	94534.9	0.11%					10	2	2.48	NCHSHT
NAA036_2-50	50	2	6	102700.3	102700.3	0.21%					10	2	2.44	NCHSHT
NAA046_2-50	50	2	6	106632.4	106632.4	0.10%					10	2	4.77	NCHSHT
NAA056_2-50	50	2	6	104507.6	104507.6	0.10%					20	4	6.88	NCHSHT
NAA066_2-50	50	2	6	94629.5	94629.5	0.21%					15	3	3.40	NCHSHT
NAA076_2-50	50	2	6	101554.2	101554.2	0.16%					10	2	5.59	NCHSHT
NAA086_2-50	50	2	6	99680.4	99680.4	0.10%					15	3	3.40	NCHSHT
NAA096_2-50	50	2	6	102925.7	102925.7	0.09%					15	3	2.98	NCHSHT
NAA0012_2-50	50	2	12	176397.6	176397.6	0.05%					40	7	19.00	NCHSHT
NAA0112_2-50	50	2	12	184166.9	184166.9	0.02%					40	7	21.21	NCHSHT
NAA0212_2-50	50	2	12	176292.3	176292.3	0.06%					51	9	39.30	NCHSHT
NAA0312_2-50	50	2	12	189790.4	189790.4	0.11%					57	10	51.30	NCHSHT
NAA0412_2-50	50	2	12	194840.3	194840.3	0.32%					40	7	76.17	NCHSHT
NAA0512_2-50	50	2	12	192742.7	192742.7	0.07%					46	8	50.60	NCHSHT
NAA0612_2-50	50	2	12	174136.6	174136.6	0.03%					46	8	17.09	NCHSHT
NAA0712_2-50	50	2	12	184105.7	184105.7	0.06%					57	10	59.02	NCHSHT
NAA0812_2-50	50	2	12	179309.5	179309.5	0.09%					23	4	12.01	NCHSHT
NAA0912_2-50	50	2	12	189851.4	189851.4	0.05%					46	8	49.44	NCHSHT
NAA0018_2-50	50	2	18	259193.1	259193.1	0.08%					60	8	76.35	NCHSHT
NAA0118_2-50	50	2	18	267650.1	267650.1	0.01%					44	6	29.44	NCHSHT
NAA0218_2-50	50	2	18	255784.6	255784.6	0.09%					52	7	68.48	NCHSHT
NAA0318_2-50	50	2	18	278998.8	278998.8	0.07%					82	11	126.36	NCHSHT
NAA0418_2-50	50	2	18	283215.9	283215.9	0.00%					66	9	163.34	NCHSHT
NAA0518_2-50	50	2	18	282748.0	282748.0	0.10%					60	8	73.99	NCHSHT
NAA0618_2-50	50	2	18	255891.1	255891.1	0.05%					46	6	50.10	NCHSHT
NAA0718_2-50	50	2	18	268755.9	268755.9	0.04%					44	6	64.73	NCHSHT
NAA0818_2-50	50	2	18	262923.0	262923.0	0.02%					74	10	100.15	NCHSHT
NAA0918_2-50	50	2	18	277306.8	277306.8	0.04%					60	8	93.42	NCHSHT
NAA006_4-6	6	4	6	9289.9	9289.9	0.15%					15	3	0.66	NCHSHT
NAA016_4-6	6	4	6	12021.3	12021.3	7.67%					15	3	1.86	NCHSHT
NAA026_4-6	6	4	6	11669.5	11669.5	0.36%					15	3	0.96	NCHSHT
NAA036_4-6	6	4	6	12249.2	12249.2	0.82%					15	3	0.83	NCHSHT
NAA046_4-6	6	4	6	9742.8	9742.8	0.00%					20	4	2.42	NCHSHT
NAA056_4-6	6	4	6	15068.9	15068.9	1.55%					15	3	1.01	NCHSHT
NAA066_4-6	6	4	6	12380.1	12380.1	5.98%					20	4	1.53	NCHSHT
NAA076_4-6	6	4	6	12938.4	12938.4	0.00%					20	4	0.78	NCHSHT
NAA086_4-6	6	4	6	9790.6	9790.6	1.15%					25	5	0.81	NCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA096_4-6	6	4	6	14361.2	14361.2	0.62%					15	3	0.73	NCHSHT
NAA0012_4-6	6	4	12	17330.9	17330.9	0.64%					46	8	3.76	NCHSHT
NAA0112_4-6	6	4	12	23592.4	23592.4	0.48%					58	10	8.36	NCHSHT
NAA0212_4-6	6	4	12	22019.8	22019.8	0.39%					29	5	5.12	NCHSHT
NAA0312_4-6	6	4	12	24289.6	24289.6	0.00%					52	9	4.34	NCHSHT
NAA0412_4-6	6	4	12	21795.6	21795.6	0.13%					40	7	11.38	NCHSHT
NAA0512_4-6	6	4	12	28910.7	28910.7	0.00%					51	9	5.05	NCHSHT
NAA0612_4-6	6	4	12	20568.7	20568.7	0.00%					57	10	4.58	NCHSHT
NAA0712_4-6	6	4	12	23670.0	23670.0	0.72%					23	4	4.50	NCHSHT
NAA0812_4-6	6	4	12	18941.1	18941.1	0.04%					46	8	3.76	NCHSHT
NAA0912_4-6	6	4	12	25427.1	25427.1	0.35%					34	6	3.80	NCHSHT
NAA0018_4-6	6	4	18	26657.2	26657.2	0.27%					52	7	12.13	NCHSHT
NAA0118_4-6	6	4	18	31978.9	31978.9	0.25%					60	8	27.74	NCHSHT
NAA0218_4-6	6	4	18	31795.4	31795.4	0.58%					74	10	17.22	NCHSHT
NAA0318_4-6	6	4	18	36878.6	36878.6	0.41%					46	6	9.35	NCHSHT
NAA0418_4-6	6	4	18	33478.9	33478.9	1.24%					60	8	22.54	NCHSHT
NAA0518_4-6	6	4	18	41480.1	41480.1	0.90%					54	7	18.40	NCHSHT
NAA0618_4-6	6	4	18	32292.3	32292.3	0.44%					90	12	16.08	NCHSHT
NAA0718_4-6	6	4	18	35366.2	35366.2	0.45%					66	9	10.21	NCHSHT
NAA0818_4-6	6	4	18	27227.8	27227.8	0.14%					38	5	9.33	NCHSHT
NAA0918_4-6	6	4	18	37445.1	37445.1	0.44%					60	8	15.76	NCHSHT
NAA006_4-12	12	4	6	19830.8	19830.8	0.48%					15	3	1.64	NCHSHT
NAA016_4-12	12	4	6	22891.4	22891.4	0.13%					20	4	5.64	NCHSHT
NAA026_4-12	12	4	6	18870.2	18870.2	2.23%					10	2	1.04	NCHSHT
NAA036_4-12	12	4	6	20245.6	20245.6	0.34%					20	4	2.19	NCHSHT
NAA046_4-12	12	4	6	23040.5	23040.5	1.99%					20	4	2.15	NCHSHT
NAA056_4-12	12	4	6	24252.3	24252.3	2.71%					15	3	1.96	NCHSHT
NAA066_4-12	12	4	6	20780.3	20780.3	1.02%					20	4	2.57	NCHSHT
NAA076_4-12	12	4	6	20751.0	20751.0	0.00%					20	4	6.52	NCHSHT
NAA086_4-12	12	4	6	22431.3	22431.3	0.45%					20	4	1.74	NCHSHT
NAA096_4-12	12	4	6	21777.1	21777.1	1.95%					15	3	2.85	NCHSHT
NAA0012_4-12	12	4	12	35736.0	35736.0	0.12%					45	8	10.90	NCHSHT
NAA0112_4-12	12	4	12	40590.4	40590.4	0.26%					63	11	40.65	NCHSHT
NAA0212_4-12	12	4	12	36837.1	36837.1	0.00%					58	10	10.31	NCHSHT
NAA0312_4-12	12	4	12	39813.1	39813.1	0.25%					74	13	25.77	NCHSHT
NAA0412_4-12	12	4	12	42062.4	42062.4	0.88%					46	8	21.42	NCHSHT
NAA0512_4-12	12	4	12	45132.9	45132.9	0.67%					74	13	56.12	NCHSHT
NAA0612_4-12	12	4	12	38728.3	38728.3	0.00%					57	10	11.15	NCHSHT
NAA0712_4-12	12	4	12	41503.8	41503.8	0.20%					40	7	18.43	NCHSHT
NAA0812_4-12	12	4	12	41246.7	41246.7	0.13%					45	8	4.18	NCHSHT
NAA0912_4-12	12	4	12	43931.0	43931.0	0.93%					69	12	55.70	NCHSHT
NAA0018_4-12	12	4	18	54015.7	54015.7	0.07%					60	8	26.85	NCHSHT
NAA0118_4-12	12	4	18	59331.3	59331.3	0.02%					96	13	52.38	NCHSHT
NAA0218_4-12	12	4	18	53412.1	53412.1	0.02%					38	5	8.34	NCHSHT
NAA0318_4-12	12	4	18	61199.4	61199.4	0.42%					52	7	40.43	NCHSHT
NAA0418_4-12	12	4	18	61945.9	61945.9	0.86%					68	9	84.37	NCHSHT
NAA0518_4-12	12	4	18	65931.5	65931.5	0.64%					60	8	56.00	NCHSHT
NAA0618_4-12	12	4	18	58660.5	58660.5	0.69%					52	7	16.21	NCHSHT
NAA0718_4-12	12	4	18	63733.3	63733.3	0.14%					70	9	57.66	NCHSHT
NAA0818_4-12	12	4	18	62537.7	62537.7	0.00%					82	11	18.65	NCHSHT
NAA0918_4-12	12	4	18	62695.5	62695.5	0.06%					68	9	52.73	NCHSHT
NAA006_4-25	25	4	6	37111.4	37111.4	0.28%					20	4	7.25	NCHSHT
NAA016_4-25	25	4	6	45208.0	45208.0	0.44%					20	4	4.95	NCHSHT
NAA026_4-25	25	4	6	42643.8	42643.8	0.66%					15	3	12.00	NCHSHT
NAA036_4-25	25	4	6	42254.8	42254.8	0.59%					15	3	7.92	NCHSHT
NAA046_4-25	25	4	6	43221.7	43221.7	0.92%					25	5	13.79	NCHSHT
NAA056_4-25	25	4	6	47118.7	47118.7	0.41%					25	5	13.84	NCHSHT
NAA066_4-25	25	4	6	37900.3	37900.3	0.57%					15	3	2.52	NCHSHT
NAA076_4-25	25	4	6	43103.9	43103.9	0.88%					15	3	10.22	NCHSHT
NAA086_4-25	25	4	6	39779.8	39779.8	0.65%					15	3	7.84	NCHSHT
NAA096_4-25	25	4	6	45624.0	45624.0	0.77%					20	4	15.39	NCHSHT
NAA0012_4-25	25	4	12	74710.8	74710.8	0.16%					57	10	67.34	NCHSHT
NAA0112_4-25	25	4	12	82551.6	82551.6	0.16%					80	14	91.65	NCHSHT
NAA0212_4-25	25	4	12	78159.9	78159.9	0.21%					58	10	95.02	NCHSHT
NAA0312_4-25	25	4	12	82760.9	82760.9	0.11%					52	9	32.78	NCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0412_4-25	25	4	12	83412.7	83412.7	0.23%					35	6	42.31	NCHSHT
NAA0512_4-25	25	4	12	86429.9	86429.9	0.38%					51	9	82.41	NCHSHT
NAA0612_4-25	25	4	12	73691.4	73691.4	0.46%					57	10	49.39	NCHSHT
NAA0712_4-25	25	4	12	83278.8	83278.8	0.06%					34	6	43.82	NCHSHT
NAA0812_4-25	25	4	12	77902.5	77902.5	0.06%					52	9	47.37	NCHSHT
NAA0912_4-25	25	4	12	84220.6	84220.6	0.14%					29	5	13.11	NCHSHT
NAA0018_4-25	25	4	18	108759.5	108759.5	0.17%					90	12	74.70	NCHSHT
NAA0118_4-25	25	4	18	120501.2	120501.2	0.00%					38	5	88.69	NCHSHT
NAA0218_4-25	25	4	18	116814.9	116814.9	0.00%					112	15	254.89	NCHSHT
NAA0318_4-25	25	4	18	121105.0	121105.0	0.07%					84	11	92.23	NCHSHT
NAA0418_4-25	25	4	18	123831.0	123831.0	0.36%					52	7	61.94	NCHSHT
NAA0518_4-25	25	4	18	125207.6	125207.6	0.24%					46	6	79.92	NCHSHT
NAA0618_4-25	25	4	18	110322.7	110322.7	0.00%					52	7	38.30	NCHSHT
NAA0718_4-25	25	4	18	121981.3	121981.3	0.08%					46	6	85.17	NCHSHT
NAA0818_4-25	25	4	18	112363.3	112363.3	0.13%					66	9	108.29	NCHSHT
NAA0918_4-25	25	4	18	124105.0	124105.0	0.09%					74	10	49.46	NCHSHT
NAA006_4-50	50	4	6	80549.2	80549.2	0.04%					15	3	10.52	NCHSHT
NAA016_4-50	50	4	6	83543.6	83543.6	0.04%					15	3	9.29	NCHSHT
NAA026_4-50	50	4	6	85706.4	85706.4	0.06%					15	3	9.46	NCHSHT
NAA036_4-50	50	4	6	86451.4	86451.4	0.14%					15	3	12.94	NCHSHT
NAA046_4-50	50	4	6	92868.1	92868.1	0.50%					15	3	22.97	NCHSHT
NAA056_4-50	50	4	6	87646.6	87646.6	0.42%					20	4	27.81	NCHSHT
NAA066_4-50	50	4	6	78939.6	78939.6	0.11%					10	2	4.90	NCHSHT
NAA076_4-50	50	4	6	82497.3	82497.3	0.17%					15	3	14.20	NCHSHT
NAA086_4-50	50	4	6	82346.8	82346.8	0.18%					20	4	11.70	NCHSHT
NAA096_4-50	50	4	6	93653.1	93653.1	0.11%					10	2	3.59	NCHSHT
NAA0012_4-50	50	4	12	158388.9	158388.9	0.06%					68	12	110.62	NCHSHT
NAA0112_4-50	50	4	12	156412.1	156412.1	0.04%					40	7	46.18	NCHSHT
NAA0212_4-50	50	4	12	157733.2	157733.2	0.07%					51	9	122.86	NCHSHT
NAA0312_4-50	50	4	12	165173.7	165173.7	0.14%					46	8	68.62	NCHSHT
NAA0412_4-50	50	4	12	169451.7	169451.7	0.10%					40	7	88.12	NCHSHT
NAA0512_4-50	50	4	12	163694.9	163694.9	0.04%					92	16	133.86	NCHSHT
NAA0612_4-50	50	4	12	149671.8	149671.8	0.06%					40	7	24.70	NCHSHT
NAA0712_4-50	50	4	12	160500.3	160500.3	0.04%					40	7	83.17	NCHSHT
NAA0812_4-50	50	4	12	156125.0	156125.0	0.06%					45	8	46.75	NCHSHT
NAA0912_4-50	50	4	12	171596.5	171596.5	0.01%					56	10	63.36	NCHSHT
NAA0018_4-50	50	4	18	227028.7	227028.7	0.03%					68	9	119.86	NCHSHT
NAA0118_4-50	50	4	18	231350.4	231350.4	0.02%					38	5	49.11	NCHSHT
NAA0218_4-50	50	4	18	236329.6	236329.6	0.11%					52	7	141.22	NCHSHT
NAA0318_4-50	50	4	18	241959.7	241959.7	0.02%					44	6	72.10	NCHSHT
NAA0418_4-50	50	4	18	251472.1	251472.1	0.01%					82	11	119.95	NCHSHT
NAA0518_4-50	50	4	18	242688.9	242688.9	0.04%					76	10	152.51	NCHSHT
NAA0618_4-50	50	4	18	223270.4	223270.4	0.04%					46	6	65.32	NCHSHT
NAA0718_4-50	50	4	18	239462.0	239462.0	0.04%					68	9	189.25	NCHSHT
NAA0818_4-50	50	4	18	226878.0	226878.0	0.01%					52	7	85.42	NCHSHT
NAA0918_4-50	50	4	18	250521.9	250521.9	0.03%					60	8	121.05	NCHSHT
NAA006_6-6	6	6	6	9329.6	9329.6	2.83%					15	3	1.46	NCHSHT
NAA016_6-6	6	6	6	12121.1	12121.1	0.00%					20	4	2.86	NCHSHT
NAA026_6-6	6	6	6	11513.4	11513.4	3.05%					15	3	1.27	NCHSHT
NAA036_6-6	6	6	6	13784.8	13784.8	1.19%					20	4	1.47	NCHSHT
NAA046_6-6	6	6	6	13475.5	13475.5	0.92%					25	5	2.24	NCHSHT
NAA056_6-6	6	6	6	15886.6	15886.6	1.58%					15	3	1.41	NCHSHT
NAA066_6-6	6	6	6	11210.4	11210.4	2.21%					20	4	1.50	NCHSHT
NAA076_6-6	6	6	6	14199.2	14199.2	0.79%					20	4	2.15	NCHSHT
NAA086_6-6	6	6	6	13557.5	13557.5	0.78%					15	3	1.57	NCHSHT
NAA096_6-6	6	6	6	15332.1	15332.1	1.19%					30	6	3.66	NCHSHT
NAA0012_6-6	6	6	12	18920.0	18920.0	0.09%					63	11	11.89	NCHSHT
NAA0112_6-6	6	6	12	22748.4	22748.4	0.15%					35	6	14.25	NCHSHT
NAA0212_6-6	6	6	12	23012.1	23012.1	0.28%					58	10	8.18	NCHSHT
NAA0312_6-6	6	6	12	26072.0	26072.0	0.04%					46	8	7.94	NCHSHT
NAA0412_6-6	6	6	12	25594.6	25594.6	0.45%					57	10	13.38	NCHSHT
NAA0512_6-6	6	6	12	26871.4	26871.4	0.72%					57	10	9.05	NCHSHT
NAA0612_6-6	6	6	12	21826.2	21826.2	0.11%					74	13	15.91	NCHSHT
NAA0712_6-6	6	6	12	27343.6	27343.6	0.49%					63	11	10.61	NCHSHT
NAA0812_6-6	6	6	12	24720.4	24720.4	0.14%					63	11	15.56	NCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0912_6-6	6	6	12	27865.4	27865.4	0.15%					75	13	23.61	NCHSHT
NAA0018_6-6	6	6	18	28229.4	28229.4	0.76%					84	11	39.07	NCHSHT
NAA0118_6-6	6	6	18	34699.9	34699.9	0.10%					60	8	35.27	NCHSHT
NAA0218_6-6	6	6	18	31407.4	31407.4	0.10%					66	9	21.01	NCHSHT
NAA0318_6-6	6	6	18	36404.4	36404.4	0.48%					44	6	25.61	NCHSHT
NAA0418_6-6	6	6	18	37038.7	37038.7	0.10%					60	8	58.78	NCHSHT
NAA0518_6-6	6	6	18	41404.0	41404.0	0.68%					66	9	33.94	NCHSHT
NAA0618_6-6	6	6	18	32335.8	32335.8	0.28%					68	9	28.65	NCHSHT
NAA0718_6-6	6	6	18	39999.2	39999.2	0.46%					52	7	32.17	NCHSHT
NAA0818_6-6	6	6	18	39619.5	39619.5	0.34%					68	9	51.74	NCHSHT
NAA0918_6-6	6	6	18	42520.7	42520.7	0.16%					98	13	59.98	NCHSHT
NAA006_6-12	12	6	6	20347.1	20347.1	1.64%					20	4	5.77	NCHSHT
NAA016_6-12	12	6	6	20353.4	20353.4	0.68%					15	3	5.21	NCHSHT
NAA026_6-12	12	6	6	19411.8	19411.8	2.33%					20	4	7.24	NCHSHT
NAA036_6-12	12	6	6	20056.4	20056.4	0.32%					15	3	1.87	NCHSHT
NAA046_6-12	12	6	6	18769.1	18769.1	1.48%					15	3	3.60	NCHSHT
NAA056_6-12	12	6	6	20544.9	20544.9	3.21%					15	3	4.97	NCHSHT
NAA066_6-12	12	6	6	18060.0	18060.0	0.75%					15	3	1.86	NCHSHT
NAA076_6-12	12	6	6	23078.9	23078.9	0.00%					25	5	5.70	NCHSHT
NAA086_6-12	12	6	6	20273.9	20273.9	0.00%					20	4	7.01	NCHSHT
NAA096_6-12	12	6	6	23890.7	23890.7	1.40%					20	4	7.55	NCHSHT
NAA0012_6-12	12	6	12	37496.4	37496.4	0.65%					52	9	25.53	NCHSHT
NAA0112_6-12	12	6	12	39406.2	39406.2	0.29%					98	17	30.96	NCHSHT
NAA0212_6-12	12	6	12	36945.5	36945.5	0.33%					52	9	64.61	NCHSHT
NAA0312_6-12	12	6	12	40054.9	40054.9	0.92%					80	14	54.82	NCHSHT
NAA0412_6-12	12	6	12	35443.2	35443.2	0.00%					46	8	19.63	NCHSHT
NAA0512_6-12	12	6	12	41112.7	41112.7	0.55%					63	11	46.98	NCHSHT
NAA0612_6-12	12	6	12	34353.5	34353.5	0.21%					40	7	8.62	NCHSHT
NAA0712_6-12	12	6	12	46155.8	46155.8	1.12%					63	11	93.15	NCHSHT
NAA0812_6-12	12	6	12	38123.8	38123.8	0.06%					69	12	43.56	NCHSHT
NAA0912_6-12	12	6	12	43347.2	43347.2	0.47%					86	15	49.22	NCHSHT
NAA0018_6-12	12	6	18	56088.1	56088.1	-0.13%					60	8	66.14	NCHSHT
NAA0118_6-12	12	6	18	60837.6	60837.6	0.09%					82	11	56.54	NCHSHT
NAA0218_6-12	12	6	18	54736.1	54736.1	0.54%					52	7	49.51	NCHSHT
NAA0318_6-12	12	6	18	56834.2	56834.2	0.16%					68	9	33.29	NCHSHT
NAA0418_6-12	12	6	18	52193.8	52193.8	0.19%					60	8	40.55	NCHSHT
NAA0518_6-12	12	6	18	61657.6	61657.6	0.31%					82	11	50.24	NCHSHT
NAA0618_6-12	12	6	18	53842.5	53842.5	0.02%					60	8	24.37	NCHSHT
NAA0718_6-12	12	6	18	66904.9	66904.9	0.42%					82	11	127.76	NCHSHT
NAA0818_6-12	12	6	18	56685.5	56685.5	0.33%					92	12	76.92	NCHSHT
NAA0918_6-12	12	6	18	64706.2	64706.2	0.20%					60	8	72.78	NCHSHT
NAA006_6-25	25	6	6	39339.9	39339.9	1.00%					15	3	31.05	NCHSHT
NAA016_6-25	25	6	6	39518.4	39518.4	0.26%					15	3	13.71	NCHSHT
NAA026_6-25	25	6	6	41292.5	41292.5	0.53%					20	4	13.95	NCHSHT
NAA036_6-25	25	6	6	40491.7	40491.7	0.44%					15	3	9.08	NCHSHT
NAA046_6-25	25	6	6	42809.5	42809.5	1.34%					15	3	34.51	NCHSHT
NAA056_6-25	25	6	6	40062.0	40062.0	0.39%					20	4	15.08	NCHSHT
NAA066_6-25	25	6	6	38478.7	38478.7	0.12%					20	4	12.43	NCHSHT
NAA076_6-25	25	6	6	42376.1	42376.1	0.14%					25	5	10.00	NCHSHT
NAA086_6-25	25	6	6	40291.1	40291.1	0.45%					15	3	9.71	NCHSHT
NAA096_6-25	25	6	6	41951.9	41951.9	0.57%					20	4	11.43	NCHSHT
NAA0012_6-25	25	6	12	76446.3	76446.3	0.37%					57	10	71.87	NCHSHT
NAA0112_6-25	25	6	12	78774.7	78774.7	0.27%					41	7	88.22	NCHSHT
NAA0212_6-25	25	6	12	79898.7	79898.7	0.34%					63	11	133.49	NCHSHT
NAA0312_6-25	25	6	12	77265.6	77265.6	-0.02%					52	9	88.21	NCHSHT
NAA0412_6-25	25	6	12	80750.2	80750.2	0.30%					29	5	66.42	NCHSHT
NAA0512_6-25	25	6	12	76236.2	76236.2	0.22%					52	9	46.93	NCHSHT
NAA0612_6-25	25	6	12	73828.4	73828.4	0.15%					69	12	89.30	NCHSHT
NAA0712_6-25	25	6	12	77779.8	77779.8	0.16%					46	8	33.59	NCHSHT
NAA0812_6-25	25	6	12	75005.3	75005.3	0.61%					29	5	60.53	NCHSHT
NAA0912_6-25	25	6	12	82007.4	82007.4	0.25%					52	9	90.14	NCHSHT
NAA0018_6-25	25	6	18	110895.0	110895.0	0.05%					98	13	190.58	NCHSHT
NAA0118_6-25	25	6	18	116931.7	116931.7	0.21%					106	14	223.55	NCHSHT
NAA0218_6-25	25	6	18	120033.2	120033.2	0.12%					46	6	124.00	NCHSHT
NAA0318_6-25	25	6	18	116174.8	116174.8	0.18%					60	8	200.04	NCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAA0418_6-25	25	6	18	120140.0	120140.0	0.20%					84	11	180.12	NCHSHT
NAA0518_6-25	25	6	18	117402.5	117402.5	0.33%					52	7	98.98	NCHSHT
NAA0618_6-25	25	6	18	108403.8	108403.8	0.15%					46	6	91.96	NCHSHT
NAA0718_6-25	25	6	18	114694.9	114694.9	0.21%					82	11	114.37	NCHSHT
NAA0818_6-25	25	6	18	108291.8	108291.8	0.03%					76	10	158.20	NCHSHT
NAA0918_6-25	25	6	18	121941.3	121941.3	0.14%					76	10	181.40	NCHSHT
NAA006_6-50	50	6	6	74001.6	74001.6	0.10%					15	3	25.50	NCHSHT
NAA016_6-50	50	6	6	76230.0	76230.0	0.27%					25	5	31.74	NCHSHT
NAA026_6-50	50	6	6	79307.3	79307.3	0.62%					15	3	64.53	NCHSHT
NAA036_6-50	50	6	6	77491.7	77491.7	0.01%					20	4	19.20	NCHSHT
NAA046_6-50	50	6	6	79804.8	79804.8	0.48%					25	5	70.95	NCHSHT
NAA056_6-50	50	6	6	80133.7	80133.7	0.31%					20	4	65.30	NCHSHT
NAA066_6-50	50	6	6	76971.3	76971.3	0.31%					15	3	38.15	NCHSHT
NAA076_6-50	50	6	6	80940.3	80940.3	0.13%					25	5	21.81	NCHSHT
NAA086_6-50	50	6	6	75613.4	75613.4	0.01%					20	4	27.53	NCHSHT
NAA096_6-50	50	6	6	76765.7	76765.7	0.11%					15	3	16.27	NCHSHT
NAA0012_6-50	50	6	12	144400.1	144400.1	0.03%					63	11	35.69	NCHSHT
NAA0112_6-50	50	6	12	147653.7	147653.7	0.14%					57	10	121.44	NCHSHT
NAA0212_6-50	50	6	12	151965.5	151965.5	0.04%					75	13	177.47	NCHSHT
NAA0312_6-50	50	6	12	150773.3	150773.3	0.06%					35	6	89.72	NCHSHT
NAA0412_6-50	50	6	12	157211.3	157211.3	0.06%					46	8	119.30	NCHSHT
NAA0512_6-50	50	6	12	153725.8	153725.8	0.09%					52	9	154.40	NCHSHT
NAA0612_6-50	50	6	12	145852.5	145852.5	0.11%					75	13	247.94	NCHSHT
NAA0712_6-50	50	6	12	155871.5	155871.5	0.04%					80	14	99.51	NCHSHT
NAA0812_6-50	50	6	12	142333.1	142333.1	0.05%					57	10	90.51	NCHSHT
NAA0912_6-50	50	6	12	149469.9	149469.9	0.08%					40	7	90.57	NCHSHT
NAA0018_6-50	50	6	18	214507.1	214507.1	0.09%					38	5	92.64	NCHSHT
NAA0118_6-50	50	6	18	216250.3	216250.3	0.04%					60	8	129.46	NCHSHT
NAA0218_6-50	50	6	18	221826.5	221826.5	0.02%					74	10	211.63	NCHSHT
NAA0318_6-50	50	6	18	224183.7	224183.7	0.00%					66	9	187.24	NCHSHT
NAA0418_6-50	50	6	18	234054.4	234054.4	0.01%					76	10	228.11	NCHSHT
NAA0518_6-50	50	6	18	223383.4	223383.4	0.04%					112	15	282.40	NCHSHT
NAA0618_6-50	50	6	18	217060.1	217060.1	0.05%					76	10	289.00	NCHSHT
NAA0718_6-50	50	6	18	229091.6	229091.6	0.09%					68	9	184.63	NCHSHT
NAA0818_6-50	50	6	18	213016.0	213016.0	0.02%					46	6	110.81	NCHSHT
NAA0918_6-50	50	6	18	222635.1	222635.1	0.03%					68	9	141.11	NCHSHT
NAB006_2-6	6	2	6	14046.4	14046.4	0.13%					20	4	0.59	NCHSLT
NAB016_2-6	6	2	6	11210.0	11210.0	2.13%					20	4	0.79	NCHSLT
NAB026_2-6	6	2	6	14941.4	14941.4	2.40%					15	3	0.54	NCHSLT
NAB036_2-6	6	2	6	15128.8	15128.8	1.01%					20	4	0.64	NCHSLT
NAB046_2-6	6	2	6	16411.6	16411.6	0.00%					15	3	0.65	NCHSLT
NAB056_2-6	6	2	6	17185.9	17185.9	3.65%					10	2	0.49	NCHSLT
NAB066_2-6	6	2	6	16180.7	16180.7	1.80%					15	3	0.63	NCHSLT
NAB076_2-6	6	2	6	16589.2	16589.2	0.76%					25	5	0.84	NCHSLT
NAB086_2-6	6	2	6	12867.0	12867.0	0.12%					10	2	0.30	NCHSLT
NAB096_2-6	6	2	6	12883.1	12883.1	0.00%					20	4	0.56	NCHSLT
NAB0012_2-6	6	2	12	24551.2	24551.2	1.09%					45	8	3.15	NCHSLT
NAB0112_2-6	6	2	12	23453.5	23453.5	0.55%					46	8	3.44	NCHSLT
NAB0212_2-6	6	2	12	27427.4	27427.4	2.52%					52	9	2.86	NCHSLT
NAB0312_2-6	6	2	12	27407.0	27407.0	2.10%					51	9	3.10	NCHSLT
NAB0412_2-6	6	2	12	27990.9	27990.9	3.85%					69	12	8.06	NCHSLT
NAB0512_2-6	6	2	12	31035.8	31035.8	0.61%					52	9	3.50	NCHSLT
NAB0612_2-6	6	2	12	28203.2	28203.2	0.67%					46	8	3.13	NCHSLT
NAB0712_2-6	6	2	12	26945.5	26945.5	0.10%					40	7	3.11	NCHSLT
NAB0812_2-6	6	2	12	22169.0	22169.0	0.76%					80	14	2.93	NCHSLT
NAB0912_2-6	6	2	12	27571.8	27571.8	2.11%					46	8	3.73	NCHSLT
NAB0018_2-6	6	2	18	33506.7	33506.7	0.47%					52	7	9.63	NCHSLT
NAB0118_2-6	6	2	18	33508.4	33508.4	0.00%					98	13	8.70	NCHSLT
NAB0218_2-6	6	2	18	39702.2	39702.2	0.84%					52	7	5.31	NCHSLT
NAB0318_2-6	6	2	18	344207713.6	344207713.6	70.95%					62	8	9.85	NCHSLT
NAB0418_2-6	6	2	18	37491.6	37491.6	1.85%					54	7	13.14	NCHSLT
NAB0518_2-6	6	2	18	42555.9	42555.9	0.35%					90	12	9.48	NCHSLT
NAB0618_2-6	6	2	18	38784.7	38784.7	0.05%					62	8	6.28	NCHSLT
NAB0718_2-6	6	2	18	39031.5	39031.5	0.56%					68	9	8.89	NCHSLT
NAB0818_2-6	6	2	18	31807.0	31807.0	0.63%					52	7	4.19	NCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0918_2-6	6	2	18	36116.4	36116.4	0.21%					74	10	9.01	NCHSLT
NAB006_2-12	12	2	6	21943.7	21943.7	0.70%					15	3	1.01	NCHSLT
NAB016_2-12	12	2	6	24372.8	24372.8	0.26%					15	3	0.80	NCHSLT
NAB026_2-12	12	2	6	25628.9	25628.9	0.50%					45	9	2.50	NCHSLT
NAB036_2-12	12	2	6	30056.1	30056.1	2.47%					10	2	0.97	NCHSLT
NAB046_2-12	12	2	6	25222.2	25222.2	0.04%					10	2	0.75	NCHSLT
NAB056_2-12	12	2	6	30013.7	30013.7	3.21%					15	3	1.12	NCHSLT
NAB066_2-12	12	2	6	25555.1	25555.1	0.58%					10	2	0.73	NCHSLT
NAB076_2-12	12	2	6	25442.6	25442.6	0.00%					20	4	1.12	NCHSLT
NAB086_2-12	12	2	6	23303.5	23303.5	0.00%					10	2	0.60	NCHSLT
NAB096_2-12	12	2	6	27491.4	27491.4	0.92%					10	2	0.91	NCHSLT
NAB0012_2-12	12	2	12	41458.4	41458.4	0.79%					40	7	5.39	NCHSLT
NAB0112_2-12	12	2	12	41986.1	41986.1	0.91%					57	10	5.15	NCHSLT
NAB0212_2-12	12	2	12	44346.4	44346.4	0.81%					46	8	8.54	NCHSLT
NAB0312_2-12	12	2	12	53110.9	53110.9	0.21%					62	11	9.69	NCHSLT
NAB0412_2-12	12	2	12	45514.8	45514.8	0.94%					51	9	5.79	NCHSLT
NAB0512_2-12	12	2	12	52658.7	52658.7	0.91%					69	12	13.30	NCHSLT
NAB0612_2-12	12	2	12	46052.8	46052.8	0.71%					52	9	8.40	NCHSLT
NAB0712_2-12	12	2	12	48609.7	48609.7	2.19%					45	8	11.99	NCHSLT
NAB0812_2-12	12	2	12	41903.4	41903.4	0.09%					46	8	3.89	NCHSLT
NAB0912_2-12	12	2	12	50995.1	50995.1	0.50%					63	11	19.24	NCHSLT
NAB0018_2-12	12	2	18	61032.1	61032.1	0.37%					60	8	16.12	NCHSLT
NAB0118_2-12	12	2	18	62377.5	62377.5	0.69%					82	11	20.93	NCHSLT
NAB0218_2-12	12	2	18	65828.7	65828.7	0.66%					46	6	18.27	NCHSLT
NAB0318_2-12	12	2	18	75647.9	75647.9	0.10%					68	9	19.37	NCHSLT
NAB0418_2-12	12	2	18	67977.9	67977.9	0.24%					74	10	17.58	NCHSLT
NAB0518_2-12	12	2	18	74403.6	74403.6	0.34%					60	8	39.43	NCHSLT
NAB0618_2-12	12	2	18	66106.6	66106.6	0.28%					84	11	18.95	NCHSLT
NAB0718_2-12	12	2	18	67794.6	67794.6	0.01%					68	9	12.89	NCHSLT
NAB0818_2-12	12	2	18	65058.7	65058.7	0.35%					46	6	22.72	NCHSLT
NAB0918_2-12	12	2	18	73281.7	73281.7	0.30%					52	7	23.80	NCHSLT
NAB006_2-25	25	2	6	48601.6	48601.6	0.47%					10	2	1.83	NCHSLT
NAB016_2-25	25	2	6	49604.6	49604.6	0.81%					10	2	1.29	NCHSLT
NAB026_2-25	25	2	6	52678.3	52678.3	1.18%					15	3	2.75	NCHSLT
NAB036_2-25	25	2	6	53887.5	53887.5	0.37%					15	3	2.46	NCHSLT
NAB046_2-25	25	2	6	54833.8	54833.8	0.37%					15	3	2.87	NCHSLT
NAB056_2-25	25	2	6	57534.0	57534.0	0.21%					10	2	1.44	NCHSLT
NAB066_2-25	25	2	6	47199.6	47199.6	1.41%					10	2	1.12	NCHSLT
NAB076_2-25	25	2	6	52577.9	52577.9	0.70%					15	3	2.42	NCHSLT
NAB086_2-25	25	2	6	55453.4	55453.4	0.82%					20	4	2.30	NCHSLT
NAB096_2-25	25	2	6	60457.1	60457.1	0.07%					15	3	2.12	NCHSLT
NAB0012_2-25	25	2	12	89348.5	89348.5	0.05%					40	7	16.55	NCHSLT
NAB0112_2-25	25	2	12	94916.4	94916.4	0.11%					57	10	18.59	NCHSLT
NAB0212_2-25	25	2	12	92260.4	92260.4	0.76%					69	12	58.66	NCHSLT
NAB0312_2-25	25	2	12	95586.1	95586.1	0.31%					40	7	19.96	NCHSLT
NAB0412_2-25	25	2	12	94895.6	94895.6	0.53%					64	11	42.62	NCHSLT
NAB0512_2-25	25	2	12	107655.0	107655.0	0.33%					92	16	124.49	NCHSLT
NAB0612_2-25	25	2	12	91122.2	91122.2	0.46%					80	14	23.46	NCHSLT
NAB0712_2-25	25	2	12	96737.6	96737.6	0.23%					45	8	31.05	NCHSLT
NAB0812_2-25	25	2	12	99016.9	99016.9	0.04%					52	9	17.02	NCHSLT
NAB0912_2-25	25	2	12	104746.9	104746.9	0.30%					57	10	51.08	NCHSLT
NAB0018_2-25	25	2	18	129886.8	129886.8	0.14%					74	10	95.30	NCHSLT
NAB0118_2-25	25	2	18	133654.7	133654.7	0.20%					68	9	50.46	NCHSLT
NAB0218_2-25	25	2	18	131577.1	131577.1	0.04%					128	17	122.79	NCHSLT
NAB0318_2-25	25	2	18	143307.1	143307.1	0.01%					98	13	95.52	NCHSLT
NAB0418_2-25	25	2	18	138380.7	138380.7	0.22%					60	8	71.83	NCHSLT
NAB0518_2-25	25	2	18	150423.5	150423.5	0.37%					92	12	129.95	NCHSLT
NAB0618_2-25	25	2	18	128078.4	128078.4	0.26%					60	8	45.76	NCHSLT
NAB0718_2-25	25	2	18	142554.9	142554.9	0.13%					74	10	135.62	NCHSLT
NAB0818_2-25	25	2	18	140522.4	140522.4	0.27%					84	11	104.69	NCHSLT
NAB0918_2-25	25	2	18	150491.9	150491.9	0.51%					76	10	113.91	NCHSLT
NAB006_2-50	50	2	6	95563.3	95563.3	0.34%					15	3	4.50	NCHSLT
NAB016_2-50	50	2	6	99083.7	99083.7	0.16%					15	3	3.01	NCHSLT
NAB026_2-50	50	2	6	96167.6	96167.6	0.07%					15	3	3.23	NCHSLT
NAB036_2-50	50	2	6	104091.6	104091.6	0.06%					15	3	4.65	NCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB046_2-50	50	2	6	109474.9	109474.9	0.27%					15	3	5.26	NCHSLT
NAB056_2-50	50	2	6	107709.5	107709.5	0.54%					15	3	5.88	NCHSLT
NAB066_2-50	50	2	6	96719.0	96719.0	0.34%					20	4	6.45	NCHSLT
NAB076_2-50	50	2	6	103507.3	103507.3	0.18%					20	4	10.39	NCHSLT
NAB086_2-50	50	2	6	101366.9	101366.9	0.34%					10	2	4.90	NCHSLT
NAB096_2-50	50	2	6	105239.5	105239.5	0.27%					15	3	6.74	NCHSLT
NAB0012_2-50	50	2	12	178068.6	178068.6	0.08%					64	11	55.10	NCHSLT
NAB0112_2-50	50	2	12	185409.2	185409.2	0.03%					51	9	30.34	NCHSLT
NAB0212_2-50	50	2	12	178460.9	178460.9	0.13%					40	7	44.09	NCHSLT
NAB0312_2-50	50	2	12	190974.0	190974.0	0.06%					74	13	73.17	NCHSLT
NAB0412_2-50	50	2	12	197626.8	197626.8	0.25%					35	6	72.31	NCHSLT
NAB0512_2-50	50	2	12	195446.0	195446.0	0.35%					23	4	55.18	NCHSLT
NAB0612_2-50	50	2	12	175957.0	175957.0	0.24%					51	9	33.33	NCHSLT
NAB0712_2-50	50	2	12	187045.7	187045.7	0.16%					57	10	123.09	NCHSLT
NAB0812_2-50	50	2	12	181151.0	181151.0	0.13%					29	5	41.82	NCHSLT
NAB0912_2-50	50	2	12	192336.3	192336.3	0.14%					80	14	121.76	NCHSLT
NAB0018_2-50	50	2	18	260487.9	260487.9	0.07%					44	6	55.41	NCHSLT
NAB0118_2-50	50	2	18	269135.6	269135.6	0.11%					60	8	74.58	NCHSLT
NAB0218_2-50	50	2	18	258157.0	258157.0	0.06%					136	18	158.00	NCHSLT
NAB0318_2-50	50	2	18	280545.1	280545.1	0.06%					66	9	137.86	NCHSLT
NAB0418_2-50	50	2	18	287578.9	287578.9	0.07%					114	15	387.96	NCHSLT
NAB0518_2-50	50	2	18	284798.3	284798.3	0.01%					52	7	114.43	NCHSLT
NAB0618_2-50	50	2	18	257515.0	257515.0	0.01%					82	11	110.88	NCHSLT
NAB0718_2-50	50	2	18	271197.2	271197.2	0.01%					52	7	136.12	NCHSLT
NAB0818_2-50	50	2	18	264164.1	264164.1	0.04%					38	5	45.95	NCHSLT
NAB0918_2-50	50	2	18	280223.9	280223.9	0.07%					62	8	157.77	NCHSLT
NAB006_4-6	6	4	6	9716.8	9716.8	0.59%					15	3	0.77	NCHSLT
NAB016_4-6	6	4	6	12750.4	12750.4	5.58%					25	5	2.02	NCHSLT
NAB026_4-6	6	4	6	12071.6	12071.6	0.33%					20	4	1.27	NCHSLT
NAB036_4-6	6	4	6	12636.0	12636.0	0.18%					25	5	1.17	NCHSLT
NAB046_4-6	6	4	6	11032.7	11032.7	2.24%					20	4	2.20	NCHSLT
NAB056_4-6	6	4	6	15848.3	15848.3	2.95%					15	3	0.99	NCHSLT
NAB066_4-6	6	4	6	12847.7	12847.7	3.65%					20	4	1.23	NCHSLT
NAB076_4-6	6	4	6	14336.7	14336.7	2.75%					15	3	0.97	NCHSLT
NAB086_4-6	6	4	6	10054.3	10054.3	1.07%					20	4	0.77	NCHSLT
NAB096_4-6	6	4	6	14764.9	14764.9	0.36%					25	5	0.98	NCHSLT
NAB0012_4-6	6	4	12	17903.1	17903.1	0.13%					46	8	5.26	NCHSLT
NAB0112_4-6	6	4	12	25296.4	25296.4	0.78%					81	14	16.98	NCHSLT
NAB0212_4-6	6	4	12	23200.8	23200.8	0.13%					46	8	7.24	NCHSLT
NAB0312_4-6	6	4	12	25616.3	25616.3	0.04%					35	6	3.41	NCHSLT
NAB0412_4-6	6	4	12	23621.8	23621.8	0.39%					52	9	12.45	NCHSLT
NAB0512_4-6	6	4	12	30574.7	30574.7	1.01%					63	11	7.59	NCHSLT
NAB0612_4-6	6	4	12	21958.0	21958.0	0.15%					46	8	5.55	NCHSLT
NAB0712_4-6	6	4	12	24791.0	24791.0	0.89%					63	11	6.63	NCHSLT
NAB0812_4-6	6	4	12	21053.3	21053.3	0.01%					35	6	4.49	NCHSLT
NAB0912_4-6	6	4	12	26058.4	26058.4	0.57%					40	7	4.72	NCHSLT
NAB0018_4-6	6	4	18	27503.3	27503.3	0.03%					74	10	15.19	NCHSLT
NAB0118_4-6	6	4	18	33916.2	33916.2	1.89%					46	6	37.94	NCHSLT
NAB0218_4-6	6	4	18	33565.9	33565.9	0.74%					68	9	22.27	NCHSLT
NAB0318_4-6	6	4	18	38957.6	38957.6	0.04%					46	6	17.66	NCHSLT
NAB0418_4-6	6	4	18	35133.5	35133.5	0.17%					54	7	34.47	NCHSLT
NAB0518_4-6	6	4	18	43269.5	43269.5	0.54%					68	9	21.11	NCHSLT
NAB0618_4-6	6	4	18	34297.4	34297.4	0.47%					84	11	20.40	NCHSLT
NAB0718_4-6	6	4	18	37303.1	37303.1	0.11%					98	13	20.86	NCHSLT
NAB0818_4-6	6	4	18	28105.9	28105.9	0.21%					60	8	16.79	NCHSLT
NAB0918_4-6	6	4	18	38482.7	38482.7	0.87%					52	7	14.67	NCHSLT
NAB006_4-12	12	4	6	20562.8	20562.8	0.59%					20	4	2.91	NCHSLT
NAB016_4-12	12	4	6	24009.5	24009.5	1.36%					30	6	12.02	NCHSLT
NAB026_4-12	12	4	6	19250.9	19250.9	2.38%					10	2	1.26	NCHSLT
NAB036_4-12	12	4	6	21159.0	21159.0	2.02%					15	3	1.68	NCHSLT
NAB046_4-12	12	4	6	23147.5	23147.5	0.58%					15	3	2.48	NCHSLT
NAB056_4-12	12	4	6	24550.2	24550.2	1.47%					20	4	3.29	NCHSLT
NAB066_4-12	12	4	6	21880.9	21880.9	2.65%					20	4	2.17	NCHSLT
NAB076_4-12	12	4	6	21766.0	21766.0	0.75%					15	3	3.16	NCHSLT
NAB086_4-12	12	4	6	23042.0	23042.0	1.62%					15	3	2.02	NCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB096_4-12	12	4	6	22911.6	22911.6	2.11%					10	2	2.13	NCHSLT
NAB0012_4-12	12	4	12	36591.5	36591.5	0.00%					63	11	32.98	NCHSLT
NAB0112_4-12	12	4	12	41781.7	41781.7	-0.17%					69	12	60.01	NCHSLT
NAB0212_4-12	12	4	12	37532.1	37532.1	0.28%					45	8	16.89	NCHSLT
NAB0312_4-12	12	4	12	41167.5	41167.5	0.49%					52	9	21.09	NCHSLT
NAB0412_4-12	12	4	12	42558.1	42558.1	0.13%					69	12	22.19	NCHSLT
NAB0512_4-12	12	4	12	46758.1	46758.1	1.16%					80	14	45.39	NCHSLT
NAB0612_4-12	12	4	12	40574.0	40574.0	1.14%					75	13	25.91	NCHSLT
NAB0712_4-12	12	4	12	43196.9	43196.9	0.51%					57	10	31.82	NCHSLT
NAB0812_4-12	12	4	12	41951.2	41951.2	0.23%					40	7	7.17	NCHSLT
NAB0912_4-12	12	4	12	45285.7	45285.7	-0.36%					69	12	78.69	NCHSLT
NAB0018_4-12	12	4	18	54797.3	54797.3	0.21%					82	11	103.46	NCHSLT
NAB0118_4-12	12	4	18	61404.3	61404.3	0.72%					54	7	93.14	NCHSLT
NAB0218_4-12	12	4	18	54038.1	54038.1	0.30%					68	9	20.80	NCHSLT
NAB0318_4-12	12	4	18	62758.6	62758.6	0.03%					90	12	54.34	NCHSLT
NAB0418_4-12	12	4	18	63309.7	63309.7	0.02%					68	9	93.14	NCHSLT
NAB0518_4-12	12	4	18	67647.3	67647.3	0.57%					90	12	71.39	NCHSLT
NAB0618_4-12	12	4	18	60079.8	60079.8	0.49%					60	8	37.85	NCHSLT
NAB0718_4-12	12	4	18	66422.5	66422.5	0.25%					68	9	123.51	NCHSLT
NAB0818_4-12	12	4	18	63639.1	63639.1	0.25%					74	10	57.21	NCHSLT
NAB0918_4-12	12	4	18	64211.8	64211.8	-0.12%					114	15	88.93	NCHSLT
NAB006_4-25	25	4	6	38044.4	38044.4	0.72%					15	3	9.06	NCHSLT
NAB016_4-25	25	4	6	46551.7	46551.7	1.02%					20	4	11.50	NCHSLT
NAB026_4-25	25	4	6	43791.7	43791.7	0.43%					20	4	19.49	NCHSLT
NAB036_4-25	25	4	6	43394.2	43394.2	0.25%					20	4	11.39	NCHSLT
NAB046_4-25	25	4	6	44517.6	44517.6	0.58%					20	4	22.89	NCHSLT
NAB056_4-25	25	4	6	48190.1	48190.1	0.25%					30	6	25.67	NCHSLT
NAB066_4-25	25	4	6	38638.9	38638.9	0.51%					20	4	3.73	NCHSLT
NAB076_4-25	25	4	6	44068.5	44068.5	0.44%					15	3	21.20	NCHSLT
NAB086_4-25	25	4	6	40599.1	40599.1	0.42%					15	3	4.80	NCHSLT
NAB096_4-25	25	4	6	46476.8	46476.8	0.33%					35	7	14.05	NCHSLT
NAB0012_4-25	25	4	12	75620.2	75620.2	0.10%					52	9	69.18	NCHSLT
NAB0112_4-25	25	4	12	84119.9	84119.9	0.33%					80	14	249.79	NCHSLT
NAB0212_4-25	25	4	12	80169.8	80169.8	0.17%					63	11	190.72	NCHSLT
NAB0312_4-25	25	4	12	84208.4	84208.4	0.46%					52	9	67.45	NCHSLT
NAB0412_4-25	25	4	12	84860.6	84860.6	0.33%					35	6	65.42	NCHSLT
NAB0512_4-25	25	4	12	87771.5	87771.5	0.36%					76	13	139.14	NCHSLT
NAB0612_4-25	25	4	12	74479.1	74479.1	0.07%					64	11	78.06	NCHSLT
NAB0712_4-25	25	4	12	84564.4	84564.4	0.24%					52	9	115.62	NCHSLT
NAB0812_4-25	25	4	12	79117.6	79117.6	0.12%					46	8	76.28	NCHSLT
NAB0912_4-25	25	4	12	84977.0	84977.0	0.04%					85	15	47.22	NCHSLT
NAB0018_4-25	25	4	18	109932.7	109932.7	0.12%					68	9	155.33	NCHSLT
NAB0118_4-25	25	4	18	122549.9	122549.9	0.24%					128	17	379.34	NCHSLT
NAB0218_4-25	25	4	18	118938.7	118938.7	0.30%					54	7	206.86	NCHSLT
NAB0318_4-25	25	4	18	122731.7	122731.7	0.16%					114	15	243.89	NCHSLT
NAB0418_4-25	25	4	18	125490.0	125490.0	0.44%					60	8	116.97	NCHSLT
NAB0518_4-25	25	4	18	127032.3	127032.3	-0.09%					60	8	125.94	NCHSLT
NAB0618_4-25	25	4	18	111578.3	111578.3	0.49%					46	6	82.10	NCHSLT
NAB0718_4-25	25	4	18	123398.1	123398.1	0.31%					60	8	118.63	NCHSLT
NAB0818_4-25	25	4	18	113355.9	113355.9	-0.07%					82	11	156.21	NCHSLT
NAB0918_4-25	25	4	18	125202.5	125202.5	0.18%					46	6	51.07	NCHSLT
NAB006_4-50	50	4	6	82063.2	82063.2	0.48%					15	3	12.88	NCHSLT
NAB016_4-50	50	4	6	85191.0	85191.0	0.28%					15	3	11.94	NCHSLT
NAB026_4-50	50	4	6	87217.3	87217.3	0.14%					15	3	24.21	NCHSLT
NAB036_4-50	50	4	6	88141.7	88141.7	0.03%					20	4	9.93	NCHSLT
NAB046_4-50	50	4	6	94979.5	94979.5	0.46%					15	3	21.87	NCHSLT
NAB056_4-50	50	4	6	89738.6	89738.6	0.31%					15	3	28.11	NCHSLT
NAB066_4-50	50	4	6	80046.0	80046.0	0.17%					15	3	13.87	NCHSLT
NAB076_4-50	50	4	6	84150.0	84150.0	0.44%					20	4	52.14	NCHSLT
NAB086_4-50	50	4	6	84363.5	84363.5	0.53%					20	4	34.79	NCHSLT
NAB096_4-50	50	4	6	94779.7	94779.7	0.20%					20	4	15.13	NCHSLT
NAB0012_4-50	50	4	12	160357.9	160357.9	0.14%					80	14	237.81	NCHSLT
NAB0112_4-50	50	4	12	157814.9	157814.9	0.05%					57	10	121.33	NCHSLT
NAB0212_4-50	50	4	12	159618.3	159618.3	0.29%					29	5	126.11	NCHSLT
NAB0312_4-50	50	4	12	166937.2	166937.2	0.16%					63	11	150.22	NCHSLT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0412_4-50	50	4	12	171938.7	171938.7	0.09%					46	8	171.90	NCHSLT
NAB0512_4-50	50	4	12	165671.8	165671.8	0.14%					58	10	162.93	NCHSLT
NAB0612_4-50	50	4	12	150684.9	150684.9	0.10%					35	6	63.49	NCHSLT
NAB0712_4-50	50	4	12	162699.8	162699.8	0.06%					74	13	198.79	NCHSLT
NAB0812_4-50	50	4	12	157950.1	157950.1	0.23%					40	7	118.16	NCHSLT
NAB0912_4-50	50	4	12	172886.0	172886.0	0.11%					51	9	89.42	NCHSLT
NAB0018_4-50	50	4	18	228941.3	228941.3	0.13%					38	5	100.97	NCHSLT
NAB0118_4-50	50	4	18	233205.1	233205.1	0.04%					74	10	244.89	NCHSLT
NAB0218_4-50	50	4	18	238839.1	238839.1	0.01%					90	12	331.05	NCHSLT
NAB0318_4-50	50	4	18	243804.3	243804.3	0.05%					76	10	144.21	NCHSLT
NAB0418_4-50	50	4	18	254423.4	254423.4	0.16%					60	8	274.82	NCHSLT
NAB0518_4-50	50	4	18	244821.0	244821.0	-0.01%					68	9	170.56	NCHSLT
NAB0618_4-50	50	4	18	224329.3	224329.3	0.06%					52	7	62.41	NCHSLT
NAB0718_4-50	50	4	18	241990.3	241990.3	0.16%					46	6	189.60	NCHSLT
NAB0818_4-50	50	4	18	228638.8	228638.8	0.07%					90	12	237.28	NCHSLT
NAB0918_4-50	50	4	18	252138.6	252138.6	0.04%					90	12	196.14	NCHSLT
NAB006_6-6	6	6	6	9940.2	9940.2	1.80%					25	5	2.20	NCHSLT
NAB016_6-6	6	6	6	13603.5	13603.5	1.07%					30	6	5.05	NCHSLT
NAB026_6-6	6	6	6	12527.6	12527.6	1.71%					15	3	1.91	NCHSLT
NAB036_6-6	6	6	6	14093.7	14093.7	0.57%					25	5	3.07	NCHSLT
NAB046_6-6	6	6	6	14102.8	14102.8	0.00%					15	3	2.02	NCHSLT
NAB056_6-6	6	6	6	17100.3	17100.3	0.46%					20	4	2.71	NCHSLT
NAB066_6-6	6	6	6	11933.9	11933.9	1.34%					15	3	1.38	NCHSLT
NAB076_6-6	6	6	6	15813.3	15813.3	1.55%					20	4	2.56	NCHSLT
NAB086_6-6	6	6	6	15446.1	15446.1	2.85%					20	4	3.29	NCHSLT
NAB096_6-6	6	6	6	16487.4	16487.4	0.02%					20	4	2.76	NCHSLT
NAB0012_6-6	6	6	12	20226.0	20226.0	0.23%					46	8	9.88	NCHSLT
NAB0112_6-6	6	6	12	25388.7	25388.7	0.46%					70	12	14.08	NCHSLT
NAB0212_6-6	6	6	12	24415.3	24415.3	0.24%					40	7	7.78	NCHSLT
NAB0312_6-6	6	6	12	27526.7	27526.7	0.14%					46	8	14.31	NCHSLT
NAB0412_6-6	6	6	12	27318.6	27318.6	0.03%					41	7	13.57	NCHSLT
NAB0512_6-6	6	6	12	29788.8	29788.8	0.77%					46	8	11.28	NCHSLT
NAB0612_6-6	6	6	12	23926.5	23926.5	0.54%					69	12	12.31	NCHSLT
NAB0712_6-6	6	6	12	29090.8	29090.8	0.01%					58	10	21.17	NCHSLT
NAB0812_6-6	6	6	12	27422.2	27422.2	0.44%					52	9	28.46	NCHSLT
NAB0912_6-6	6	6	12	30529.9	30529.9	0.17%					133	23	37.14	NCHSLT
NAB0018_6-6	6	6	18	29788.2	29788.2	0.20%					84	11	40.58	NCHSLT
NAB0118_6-6	6	6	18	1939733881.6	1939733893.6	94.84%					60	8	89.22	NCHSLT
NAB0218_6-6	6	6	18	33177.6	33177.6	0.42%					68	9	29.13	NCHSLT
NAB0318_6-6	6	6	18	39263.9	39263.9	0.92%					60	8	43.95	NCHSLT
NAB0418_6-6	6	6	18	39886.3	39886.3	0.42%					82	11	74.16	NCHSLT
NAB0518_6-6	6	6	18	44879.5	44879.5	0.14%					74	10	52.17	NCHSLT
NAB0618_6-6	6	6	18	34301.5	34301.5	0.25%					84	11	33.10	NCHSLT
NAB0718_6-6	6	6	18	42942.1	42942.1	0.44%					54	7	38.78	NCHSLT
NAB0818_6-6	6	6	18	43714.1	43714.1	0.17%					76	10	37.29	NCHSLT
NAB0918_6-6	6	6	18	47151.4	47151.4	0.33%					100	13	122.47	NCHSLT
NAB006_6-12	12	6	6	20875.5	20875.5	1.04%					15	3	12.76	NCHSLT
NAB016_6-12	12	6	6	21398.7	21398.7	1.03%					25	5	21.55	NCHSLT
NAB026_6-12	12	6	6	20471.8	20471.8	2.51%					25	5	18.20	NCHSLT
NAB036_6-12	12	6	6	20862.8	20862.8	0.12%					25	5	4.74	NCHSLT
NAB046_6-12	12	6	6	19225.0	19225.0	0.88%					15	3	6.12	NCHSLT
NAB056_6-12	12	6	6	21322.9	21322.9	3.74%					20	4	3.48	NCHSLT
NAB066_6-12	12	6	6	18640.6	18640.6	0.62%					15	3	2.02	NCHSLT
NAB076_6-12	12	6	6	24522.2	24522.2	0.86%					25	5	12.89	NCHSLT
NAB086_6-12	12	6	6	21785.9	21785.9	3.22%					25	5	19.96	NCHSLT
NAB096_6-12	12	6	6	24933.6	24933.6	2.09%					20	4	11.28	NCHSLT
NAB0012_6-12	12	6	12	38425.2	38425.2	0.17%					69	12	40.32	NCHSLT
NAB0112_6-12	12	6	12	41098.5	41098.5	0.98%					51	9	39.71	NCHSLT
NAB0212_6-12	12	6	12	38996.2	38996.2	0.91%					63	11	99.22	NCHSLT
NAB0312_6-12	12	6	12	41165.6	41165.6	0.25%					46	8	21.25	NCHSLT
NAB0412_6-12	12	6	12	36723.4	36723.4	0.30%					46	8	45.03	NCHSLT
NAB0512_6-12	12	6	12	42578.4	42578.4	0.00%					81	14	56.17	NCHSLT
NAB0612_6-12	12	6	12	35295.7	35295.7	0.56%					63	11	17.00	NCHSLT
NAB0712_6-12	12	6	12	48782.0	48782.0	0.92%					58	10	108.81	NCHSLT
NAB0812_6-12	12	6	12	40313.3	40313.3	0.14%					92	16	104.61	NCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0912_6-12	12	6	12	45102.8	45102.8	0.99%					57	10	32.74	NCHSLT
NAB0018_6-12	12	6	18	57545.2	57545.2	-0.02%					70	9	73.61	NCHSLT
NAB0118_6-12	12	6	18	62806.7	62806.7	0.21%					76	10	80.35	NCHSLT
NAB0218_6-12	12	6	18	57260.0	57260.0	0.79%					54	7	104.13	NCHSLT
NAB0318_6-12	12	6	18	58722.6	58722.6	-0.03%					82	11	76.51	NCHSLT
NAB0418_6-12	12	6	18	53444.5	53444.5	0.19%					62	8	72.97	NCHSLT
NAB0518_6-12	12	6	18	63943.2	63943.2	0.20%					68	9	78.04	NCHSLT
NAB0618_6-12	12	6	18	55356.5	55356.5	0.47%					60	8	54.56	NCHSLT
NAB0718_6-12	12	6	18	70448.7	70448.7	0.13%					136	18	270.85	NCHSLT
NAB0818_6-12	12	6	18	59673.2	59673.2	0.41%					68	9	133.87	NCHSLT
NAB0918_6-12	12	6	18	66714.6	66714.6	0.52%					66	9	63.87	NCHSLT
NAB006_6-25	25	6	6	40348.7	40348.7	0.61%					20	4	16.46	NCHSLT
NAB016_6-25	25	6	6	40713.5	40713.5	0.74%					15	3	36.65	NCHSLT
NAB026_6-25	25	6	6	42524.9	42524.9	0.46%					20	4	20.21	NCHSLT
NAB036_6-25	25	6	6	41685.6	41685.6	0.92%					25	5	30.55	NCHSLT
NAB046_6-25	25	6	6	44379.9	44379.9	1.45%					20	4	48.76	NCHSLT
NAB056_6-25	25	6	6	41423.3	41423.3	1.33%					20	4	30.23	NCHSLT
NAB066_6-25	25	6	6	39936.5	39936.5	0.78%					25	5	34.59	NCHSLT
NAB076_6-25	25	6	6	43716.9	43716.9	1.01%					15	3	13.70	NCHSLT
NAB086_6-25	25	6	6	41789.5	41789.5	0.54%					25	5	46.26	NCHSLT
NAB096_6-25	25	6	6	43207.3	43207.3	0.78%					20	4	30.84	NCHSLT
NAB0012_6-25	25	6	12	78252.5	78252.5	0.47%					80	14	189.72	NCHSLT
NAB0112_6-25	25	6	12	80697.5	80697.5	0.21%					70	12	165.11	NCHSLT
NAB0212_6-25	25	6	12	81222.1	81222.1	0.28%					75	13	197.69	NCHSLT
NAB0312_6-25	25	6	12	79225.4	79225.4	0.60%					103	18	303.40	NCHSLT
NAB0412_6-25	25	6	12	82126.3	82126.3	0.09%					64	11	164.14	NCHSLT
NAB0512_6-25	25	6	12	78129.4	78129.4	0.53%					92	16	195.71	NCHSLT
NAB0612_6-25	25	6	12	75805.3	75805.3	0.51%					63	11	170.41	NCHSLT
NAB0712_6-25	25	6	12	78758.7	78758.7	0.07%					46	8	57.12	NCHSLT
NAB0812_6-25	25	6	12	76874.4	76874.4	0.10%					29	5	63.53	NCHSLT
NAB0912_6-25	25	6	12	83950.4	83950.4	0.32%					69	12	188.68	NCHSLT
NAB0018_6-25	25	6	18	113264.1	113264.1	0.06%					90	12	290.60	NCHSLT
NAB0118_6-25	25	6	18	118915.2	118915.2	0.10%					90	12	224.62	NCHSLT
NAB0218_6-25	25	6	18	122012.8	122012.8	0.24%					90	12	313.00	NCHSLT
NAB0318_6-25	25	6	18	118771.3	118771.3	0.17%					68	9	367.55	NCHSLT
NAB0418_6-25	25	6	18	122197.8	122197.8	0.06%					106	14	503.69	NCHSLT
NAB0518_6-25	25	6	18	119142.3	119142.3	0.37%					82	11	186.28	NCHSLT
NAB0618_6-25	25	6	18	110547.7	110547.7	0.19%					68	9	200.25	NCHSLT
NAB0718_6-25	25	6	18	116343.4	116343.4	0.24%					92	12	214.81	NCHSLT
NAB0818_6-25	25	6	18	110737.0	110737.0	-0.02%					68	9	188.40	NCHSLT
NAB0918_6-25	25	6	18	124351.4	124351.4	0.07%					92	12	324.42	NCHSLT
NAB006_6-50	50	6	6	75699.9	75699.9	0.70%					20	4	57.95	NCHSLT
NAB016_6-50	50	6	6	78465.7	78465.7	0.45%					25	5	68.47	NCHSLT
NAB026_6-50	50	6	6	80963.4	80963.4	0.23%					20	4	63.07	NCHSLT
NAB036_6-50	50	6	6	78988.0	78988.0	0.14%					20	4	40.75	NCHSLT
NAB046_6-50	50	6	6	82030.6	82030.6	0.64%					20	4	84.53	NCHSLT
NAB056_6-50	50	6	6	82372.4	82372.4	0.16%					20	4	59.50	NCHSLT
NAB066_6-50	50	6	6	79116.4	79116.4	0.33%					20	4	87.00	NCHSLT
NAB076_6-50	50	6	6	82390.1	82390.1	0.27%					15	3	33.77	NCHSLT
NAB086_6-50	50	6	6	77693.0	77693.0	0.38%					25	5	69.81	NCHSLT
NAB096_6-50	50	6	6	79018.3	79018.3	0.53%					30	6	101.51	NCHSLT
NAB0012_6-50	50	6	12	146976.9	146976.9	0.30%					57	10	183.99	NCHSLT
NAB0112_6-50	50	6	12	149692.1	149692.1	0.21%					52	9	141.26	NCHSLT
NAB0212_6-50	50	6	12	154170.8	154170.8	0.12%					52	9	247.53	NCHSLT
NAB0312_6-50	50	6	12	152575.5	152575.5	0.15%					69	12	236.67	NCHSLT
NAB0412_6-50	50	6	12	159605.2	159605.2	0.15%					52	9	186.75	NCHSLT
NAB0512_6-50	50	6	12	157600.4	157600.4	0.18%					87	15	359.29	NCHSLT
NAB0612_6-50	50	6	12	148479.9	148479.9	0.10%					75	13	353.03	NCHSLT
NAB0712_6-50	50	6	12	157322.0	157322.0	0.08%					46	8	138.62	NCHSLT
NAB0812_6-50	50	6	12	144332.5	144332.5	0.21%					69	12	154.20	NCHSLT
NAB0912_6-50	50	6	12	151756.2	151756.2	0.01%					46	8	162.97	NCHSLT
NAB0018_6-50	50	6	18	216542.5	216542.5	-0.05%					82	11	279.26	NCHSLT
NAB0118_6-50	50	6	18	219208.4	219208.4	0.06%					98	13	275.72	NCHSLT
NAB0218_6-50	50	6	18	224740.1	224740.1	0.05%					68	9	365.62	NCHSLT
NAB0318_6-50	50	6	18	226546.1	226546.1	0.08%					84	11	442.11	NCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NAB0418_6-50	50	6	18	237156.8	237156.8	0.01%					90	12	510.44	NCHSLT
NAB0518_6-50	50	6	18	226686.2	226686.2	0.15%					46	6	212.42	NCHSLT
NAB0618_6-50	50	6	18	220667.0	220667.0	0.01%					68	9	506.73	NCHSLT
NAB0718_6-50	50	6	18	230805.4	230805.4	0.09%					90	12	316.26	NCHSLT
NAB0818_6-50	50	6	18	215570.7	215570.7	0.04%					76	10	244.20	NCHSLT
NAB0918_6-50	50	6	18	224942.2	224942.2	-0.03%					54	7	293.15	NCHSLT
NBA006_2-6	6	2	6	8049.4	8049.4	0.12%					15	3	0.65	NCLSHT
NBA016_2-6	6	2	6	5918.6	5918.6	0.00%					15	3	0.23	NCLSHT
NBA026_2-6	6	2	6	6899.6	6899.6	0.00%					15	3	0.40	NCLSHT
NBA036_2-6	6	2	6	7713.1	7713.1	0.33%					15	3	0.45	NCLSHT
NBA046_2-6	6	2	6	7759.6	7759.6	0.30%					25	5	0.88	NCLSHT
NBA056_2-6	6	2	6	9364.1	9364.1	0.24%					10	2	0.32	NCLSHT
NBA066_2-6	6	2	6	8003.0	8003.0	0.07%					10	2	0.35	NCLSHT
NBA076_2-6	6	2	6	9021.5	9021.5	0.00%					10	2	0.36	NCLSHT
NBA086_2-6	6	2	6	8169.4	8169.4	0.00%					10	2	0.41	NCLSHT
NBA096_2-6	6	2	6	7088.9	7088.9	0.00%					10	2	0.23	NCLSHT
NBA0012_2-6	6	2	12	15351.3	15351.3	0.00%					34	6	2.73	NCLSHT
NBA0112_2-6	6	2	12	13303.8	13303.8	0.00%					40	7	1.57	NCLSHT
NBA0212_2-6	6	2	12	14505.0	14505.0	0.00%					23	4	1.32	NCLSHT
NBA0312_2-6	6	2	12	14515.2	14515.2	0.00%					23	4	1.95	NCLSHT
NBA0412_2-6	6	2	12	13499.5	13499.5	0.13%					40	7	3.63	NCLSHT
NBA0512_2-6	6	2	12	17237.2	17237.2	0.00%					34	6	1.24	NCLSHT
NBA0612_2-6	6	2	12	14771.0	14771.0	0.00%					17	3	0.74	NCLSHT
NBA0712_2-6	6	2	12	16542.1	16542.1	0.00%					23	4	1.97	NCLSHT
NBA0812_2-6	6	2	12	14100.3	14100.3	0.00%					34	6	1.86	NCLSHT
NBA0912_2-6	6	2	12	16056.8	16056.8	0.00%					34	6	1.16	NCLSHT
NBA0018_2-6	6	2	18	21471.5	21471.5	0.08%					60	8	8.05	NCLSHT
NBA0118_2-6	6	2	18	20051.5	20051.5	0.00%					30	4	1.77	NCLSHT
NBA0218_2-6	6	2	18	22230.0	22230.0	0.00%					44	6	4.25	NCLSHT
NBA0318_2-6	6	2	18	22932.5	22932.5	0.03%					44	6	4.59	NCLSHT
NBA0418_2-6	6	2	18	19851.6	19851.6	0.00%					74	10	8.73	NCLSHT
NBA0518_2-6	6	2	18	24873.3	24873.3	0.01%					22	3	1.67	NCLSHT
NBA0618_2-6	6	2	18	22629.8	22629.8	0.04%					52	7	3.81	NCLSHT
NBA0718_2-6	6	2	18	24165.8	24165.8	0.00%					38	5	6.15	NCLSHT
NBA0818_2-6	6	2	18	20730.4	20730.4	0.01%					58	8	3.95	NCLSHT
NBA0918_2-6	6	2	18	22402.4	22402.4	0.00%					30	4	1.81	NCLSHT
NBA006_2-12	12	2	6	12626.6	12626.6	0.00%					10	2	0.33	NCLSHT
NBA016_2-12	12	2	6	13857.1	13857.1	0.00%					15	3	0.59	NCLSHT
NBA026_2-12	12	2	6	13984.1	13984.1	0.00%					15	3	0.82	NCLSHT
NBA036_2-12	12	2	6	16299.4	16299.4	0.00%					10	2	0.42	NCLSHT
NBA046_2-12	12	2	6	14109.6	14109.6	0.00%					10	2	0.52	NCLSHT
NBA056_2-12	12	2	6	16457.2	16457.2	0.00%					10	2	0.38	NCLSHT
NBA066_2-12	12	2	6	13754.3	13754.3	0.20%					15	3	0.60	NCLSHT
NBA076_2-12	12	2	6	15355.7	15355.7	0.00%					5	1	0.33	NCLSHT
NBA086_2-12	12	2	6	12750.2	12750.2	0.00%					15	3	0.62	NCLSHT
NBA096_2-12	12	2	6	15822.6	15822.6	0.00%					20	4	1.18	NCLSHT
NBA0012_2-12	12	2	12	25999.4	25999.4	0.00%					28	5	1.29	NCLSHT
NBA0112_2-12	12	2	12	27384.7	27384.7	0.00%					23	4	1.40	NCLSHT
NBA0212_2-12	12	2	12	26947.6	26947.6	0.06%					57	10	5.85	NCLSHT
NBA0312_2-12	12	2	12	31645.2	31645.2	0.00%					45	8	2.61	NCLSHT
NBA0412_2-12	12	2	12	28149.1	28149.1	0.00%					57	10	3.13	NCLSHT
NBA0512_2-12	12	2	12	31963.5	31963.5	0.00%					28	5	1.87	NCLSHT
NBA0612_2-12	12	2	12	27141.8	27141.8	0.03%					34	6	1.69	NCLSHT
NBA0712_2-12	12	2	12	30159.8	30159.8	0.00%					34	6	1.70	NCLSHT
NBA0812_2-12	12	2	12	26595.4	26595.4	0.00%					34	6	3.29	NCLSHT
NBA0912_2-12	12	2	12	30770.6	30770.6	0.04%					46	8	10.61	NCLSHT
NBA0018_2-12	12	2	18	39251.5	39251.5	0.00%					22	3	2.19	NCLSHT
NBA0118_2-12	12	2	18	40261.8	40261.8	0.00%					44	6	4.90	NCLSHT
NBA0218_2-12	12	2	18	41229.0	41229.0	0.00%					60	8	16.15	NCLSHT
NBA0318_2-12	12	2	18	46065.0	46065.0	0.00%					52	7	5.92	NCLSHT
NBA0418_2-12	12	2	18	44030.3	44030.3	0.00%					30	4	4.32	NCLSHT
NBA0518_2-12	12	2	18	47179.1	47179.1	0.00%					30	4	3.70	NCLSHT
NBA0618_2-12	12	2	18	40454.2	40454.2	0.00%					52	7	4.57	NCLSHT
NBA0718_2-12	12	2	18	45372.2	45372.2	0.00%					30	4	3.15	NCLSHT
NBA0818_2-12	12	2	18	41120.4	41120.4	0.00%					22	3	6.42	NCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0918_2-12	12	2	18	46895.1	46895.1	0.00%					60	8	14.43	NCLSHT
NBA006_2-25	25	2	6	29121.8	29121.8	0.00%					10	2	0.72	NCLSHT
NBA016_2-25	25	2	6	29794.8	29794.8	0.02%					10	2	0.96	NCLSHT
NBA026_2-25	25	2	6	28314.1	28314.1	0.08%					15	3	1.35	NCLSHT
NBA036_2-25	25	2	6	30091.5	30091.5	0.05%					15	3	1.15	NCLSHT
NBA046_2-25	25	2	6	31272.9	31272.9	0.02%					10	2	1.28	NCLSHT
NBA056_2-25	25	2	6	31286.9	31286.9	0.09%					15	3	1.47	NCLSHT
NBA066_2-25	25	2	6	27868.8	27868.8	0.00%					15	3	0.68	NCLSHT
NBA076_2-25	25	2	6	31183.2	31183.2	0.06%					15	3	1.38	NCLSHT
NBA086_2-25	25	2	6	31928.1	31928.1	0.16%					15	3	1.65	NCLSHT
NBA096_2-25	25	2	6	32917.0	32917.0	0.02%					20	4	1.78	NCLSHT
NBA0012_2-25	25	2	12	58092.1	58092.1	0.00%					23	4	1.70	NCLSHT
NBA0112_2-25	25	2	12	60750.5	60750.5	0.00%					45	8	4.31	NCLSHT
NBA0212_2-25	25	2	12	55997.4	55997.4	0.03%					69	12	10.72	NCLSHT
NBA0312_2-25	25	2	12	59052.1	59052.1	0.04%					46	8	6.10	NCLSHT
NBA0412_2-25	25	2	12	59450.8	59450.8	0.03%					40	7	4.84	NCLSHT
NBA0512_2-25	25	2	12	64657.9	64657.9	0.01%					23	4	3.74	NCLSHT
NBA0612_2-25	25	2	12	57093.1	57093.1	0.00%					28	5	1.87	NCLSHT
NBA0712_2-25	25	2	12	62593.7	62593.7	0.00%					23	4	3.68	NCLSHT
NBA0812_2-25	25	2	12	62463.1	62463.1	0.00%					40	7	10.60	NCLSHT
NBA0912_2-25	25	2	12	63791.6	63791.6	0.02%					39	7	3.61	NCLSHT
NBA0018_2-25	25	2	18	86974.5	86974.5	0.00%					22	3	2.42	NCLSHT
NBA0118_2-25	25	2	18	88422.0	88422.0	0.00%					30	4	6.27	NCLSHT
NBA0218_2-25	25	2	18	82860.4	82860.4	0.00%					52	7	13.11	NCLSHT
NBA0318_2-25	25	2	18	91109.3	91109.3	0.00%					38	5	8.97	NCLSHT
NBA0418_2-25	25	2	18	90289.2	90289.2	0.01%					74	10	20.41	NCLSHT
NBA0518_2-25	25	2	18	94617.5	94617.5	0.01%					44	6	12.57	NCLSHT
NBA0618_2-25	25	2	18	83459.2	83459.2	0.00%					22	3	2.11	NCLSHT
NBA0718_2-25	25	2	18	91875.8	91875.8	0.00%					30	4	8.76	NCLSHT
NBA0818_2-25	25	2	18	91137.4	91137.4	0.02%					30	4	15.39	NCLSHT
NBA0918_2-25	25	2	18	92803.9	92803.9	0.00%					44	6	7.25	NCLSHT
NBA006_2-50	50	2	6	58710.5	58710.5	0.00%					10	2	1.29	NCLSHT
NBA016_2-50	50	2	6	60210.4	60210.4	0.00%					15	3	1.52	NCLSHT
NBA026_2-50	50	2	6	55857.0	55857.0	0.02%					10	2	1.63	NCLSHT
NBA036_2-50	50	2	6	59061.8	59061.8	0.00%					10	2	1.68	NCLSHT
NBA046_2-50	50	2	6	60538.6	60538.6	0.01%					15	3	2.11	NCLSHT
NBA056_2-50	50	2	6	59120.8	59120.8	0.01%					10	2	1.44	NCLSHT
NBA066_2-50	50	2	6	55805.5	55805.5	0.00%					10	2	1.34	NCLSHT
NBA076_2-50	50	2	6	58733.4	58733.4	0.00%					10	2	1.39	NCLSHT
NBA086_2-50	50	2	6	59777.0	59777.0	0.00%					10	2	1.90	NCLSHT
NBA096_2-50	50	2	6	60442.2	60442.2	0.01%					10	2	1.74	NCLSHT
NBA0012_2-50	50	2	12	117256.1	117256.1	0.00%					11	2	2.35	NCLSHT
NBA0112_2-50	50	2	12	119722.8	119722.8	0.00%					28	5	4.23	NCLSHT
NBA0212_2-50	50	2	12	113771.1	113771.1	0.00%					34	6	6.71	NCLSHT
NBA0312_2-50	50	2	12	119695.3	119695.3	0.00%					17	3	3.57	NCLSHT
NBA0412_2-50	50	2	12	121762.7	121762.7	0.00%					34	6	6.69	NCLSHT
NBA0512_2-50	50	2	12	119048.1	119048.1	0.00%					17	3	3.86	NCLSHT
NBA0612_2-50	50	2	12	113500.2	113500.2	0.00%					17	3	3.13	NCLSHT
NBA0712_2-50	50	2	12	114482.7	114482.7	0.00%					28	5	6.92	NCLSHT
NBA0812_2-50	50	2	12	115037.1	115037.1	0.00%					51	9	14.39	NCLSHT
NBA0912_2-50	50	2	12	122205.8	122205.8	0.00%					28	5	6.02	NCLSHT
NBA0018_2-50	50	2	18	175698.8	175698.8	0.00%					22	3	5.21	NCLSHT
NBA0118_2-50	50	2	18	178654.3	178654.3	0.00%					44	6	8.47	NCLSHT
NBA0218_2-50	50	2	18	169385.4	169385.4	0.00%					36	5	12.52	NCLSHT
NBA0318_2-50	50	2	18	180839.8	180839.8	0.00%					30	4	7.96	NCLSHT
NBA0418_2-50	50	2	18	181166.2	181166.2	0.01%					52	7	35.77	NCLSHT
NBA0518_2-50	50	2	18	180861.5	180861.5	0.00%					22	3	5.33	NCLSHT
NBA0618_2-50	50	2	18	171592.2	171592.2	0.00%					22	3	6.94	NCLSHT
NBA0718_2-50	50	2	18	172227.6	172227.6	0.00%					22	3	8.24	NCLSHT
NBA0818_2-50	50	2	18	173119.8	173119.8	0.00%					52	7	20.20	NCLSHT
NBA0918_2-50	50	2	18	182592.7	182592.7	0.00%					22	3	9.30	NCLSHT
NBA006_4-6	6	4	6	6209.0	6209.0	0.05%					15	3	0.42	NCLSHT
NBA016_4-6	6	4	6	7082.0	7082.0	0.00%					10	2	0.76	NCLSHT
NBA026_4-6	6	4	6	7218.7	7218.7	0.00%					10	2	0.56	NCLSHT
NBA036_4-6	6	4	6	6619.3	6619.3	0.00%					15	3	1.00	NCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA046_4-6	6	4	6	5430.4	5430.4	0.00%					10	2	0.49	NCLSHT
NBA056_4-6	6	4	6	7754.9	7754.9	0.69%					20	4	1.53	NCLSHT
NBA066_4-6	6	4	6	6278.5	6278.5	0.17%					15	3	0.85	NCLSHT
NBA076_4-6	6	4	6	7594.9	7594.9	0.00%					15	3	0.75	NCLSHT
NBA086_4-6	6	4	6	5797.5	5797.5	0.09%					15	3	1.14	NCLSHT
NBA096_4-6	6	4	6	8490.5	8490.5	0.10%					20	4	1.14	NCLSHT
NBA0012_4-6	6	4	12	11580.9	11580.9	0.00%					29	5	2.03	NCLSHT
NBA0112_4-6	6	4	12	15087.9	15087.9	0.20%					40	7	8.81	NCLSHT
NBA0212_4-6	6	4	12	14377.3	14377.3	0.00%					23	4	2.83	NCLSHT
NBA0312_4-6	6	4	12	14191.9	14191.9	0.00%					34	6	3.12	NCLSHT
NBA0412_4-6	6	4	12	12571.5	12571.5	0.00%					40	7	5.68	NCLSHT
NBA0512_4-6	6	4	12	15611.4	15611.4	0.12%					34	6	7.80	NCLSHT
NBA0612_4-6	6	4	12	12628.5	12628.5	0.03%					57	10	5.13	NCLSHT
NBA0712_4-6	6	4	12	14533.0	14533.0	0.00%					34	6	3.40	NCLSHT
NBA0812_4-6	6	4	12	12173.9	12173.9	0.07%					29	5	3.47	NCLSHT
NBA0912_4-6	6	4	12	14712.7	14712.7	0.08%					40	7	4.30	NCLSHT
NBA0018_4-6	6	4	18	18430.2	18430.2	0.00%					30	4	4.82	NCLSHT
NBA0118_4-6	6	4	18	21322.6	21322.6	0.00%					44	6	12.76	NCLSHT
NBA0218_4-6	6	4	18	21169.6	21169.6	0.00%					52	7	9.56	NCLSHT
NBA0318_4-6	6	4	18	21673.6	21673.6	0.00%					52	7	8.76	NCLSHT
NBA0418_4-6	6	4	18	19666.6	19666.6	0.02%					52	7	7.20	NCLSHT
NBA0518_4-6	6	4	18	23016.4	23016.4	0.00%					58	8	16.28	NCLSHT
NBA0618_4-6	6	4	18	19482.4	19482.4	0.02%					58	8	15.29	NCLSHT
NBA0718_4-6	6	4	18	22133.1	22133.1	0.00%					38	5	6.66	NCLSHT
NBA0818_4-6	6	4	18	18065.6	18065.6	0.00%					46	6	9.55	NCLSHT
NBA0918_4-6	6	4	18	21972.9	21972.9	0.00%					38	5	8.93	NCLSHT
NBA006_4-12	12	4	6	13153.7	13153.7	0.00%					20	4	1.89	NCLSHT
NBA016_4-12	12	4	6	15324.2	15324.2	0.09%					25	5	3.29	NCLSHT
NBA026_4-12	12	4	6	13123.9	13123.9	0.00%					15	3	1.10	NCLSHT
NBA036_4-12	12	4	6	12218.4	12218.4	0.01%					15	3	1.42	NCLSHT
NBA046_4-12	12	4	6	14277.8	14277.8	0.00%					15	3	0.96	NCLSHT
NBA056_4-12	12	4	6	14092.9	14092.9	0.00%					15	3	1.49	NCLSHT
NBA066_4-12	12	4	6	12641.8	12641.8	0.05%					10	2	0.70	NCLSHT
NBA076_4-12	12	4	6	12420.9	12420.9	0.09%					10	2	1.09	NCLSHT
NBA086_4-12	12	4	6	14660.0	14660.0	0.08%					20	4	1.34	NCLSHT
NBA096_4-12	12	4	6	13187.7	13187.7	0.04%					30	6	3.06	NCLSHT
NBA0012_4-12	12	4	12	24517.6	24517.6	0.01%					23	4	7.25	NCLSHT
NBA0112_4-12	12	4	12	28359.0	28359.0	0.00%					46	8	16.95	NCLSHT
NBA0212_4-12	12	4	12	26394.4	26394.4	0.00%					29	5	4.19	NCLSHT
NBA0312_4-12	12	4	12	25275.1	25275.1	0.00%					40	7	4.30	NCLSHT
NBA0412_4-12	12	4	12	27198.8	27198.8	0.00%					34	6	4.30	NCLSHT
NBA0512_4-12	12	4	12	27764.0	27764.0	0.00%					23	4	3.46	NCLSHT
NBA0612_4-12	12	4	12	24523.0	24523.0	0.00%					23	4	1.97	NCLSHT
NBA0712_4-12	12	4	12	26163.0	26163.0	0.03%					40	7	6.65	NCLSHT
NBA0812_4-12	12	4	12	27994.2	27994.2	0.00%					28	5	4.67	NCLSHT
NBA0912_4-12	12	4	12	28382.6	28382.6	0.01%					34	6	19.08	NCLSHT
NBA0018_4-12	12	4	18	38028.4	38028.4	0.00%					38	5	24.12	NCLSHT
NBA0118_4-12	12	4	18	41645.7	41645.7	0.04%					38	5	45.48	NCLSHT
NBA0218_4-12	12	4	18	39269.9	39269.9	0.00%					44	6	10.99	NCLSHT
NBA0318_4-12	12	4	18	39462.6	39462.6	0.00%					38	5	11.99	NCLSHT
NBA0418_4-12	12	4	18	40569.8	40569.8	0.00%					68	9	27.71	NCLSHT
NBA0518_4-12	12	4	18	41007.9	41007.9	0.01%					60	8	18.10	NCLSHT
NBA0618_4-12	12	4	18	37066.0	37066.0	0.00%					44	6	8.15	NCLSHT
NBA0718_4-12	12	4	18	41034.4	41034.4	0.00%					38	5	20.03	NCLSHT
NBA0818_4-12	12	4	18	42725.0	42725.0	0.01%					38	5	8.22	NCLSHT
NBA0918_4-12	12	4	18	41429.2	41429.2	0.00%					30	4	38.92	NCLSHT
NBA006_4-25	25	4	6	25499.0	25499.0	0.02%					15	3	1.96	NCLSHT
NBA016_4-25	25	4	6	29406.8	29406.8	0.04%					15	3	2.37	NCLSHT
NBA026_4-25	25	4	6	27548.3	27548.3	0.00%					10	2	1.41	NCLSHT
NBA036_4-25	25	4	6	25870.5	25870.5	0.00%					20	4	3.03	NCLSHT
NBA046_4-25	25	4	6	26626.0	26626.0	0.04%					10	2	1.34	NCLSHT
NBA056_4-25	25	4	6	30122.2	30122.2	0.04%					10	2	1.87	NCLSHT
NBA066_4-25	25	4	6	25334.3	25334.3	0.00%					10	2	1.10	NCLSHT
NBA076_4-25	25	4	6	26942.8	26942.8	0.02%					10	2	2.44	NCLSHT
NBA086_4-25	25	4	6	26213.2	26213.2	0.00%					10	2	1.50	NCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA096_4-25	25	4	6	27866.7	27866.7	0.06%					20	4	3.11	NCLSHT
NBA0012_4-25	25	4	12	53578.7	53578.7	0.01%					51	9	19.02	NCLSHT
NBA0112_4-25	25	4	12	56256.9	56256.9	0.00%					40	7	7.72	NCLSHT
NBA0212_4-25	25	4	12	53158.9	53158.9	0.01%					40	7	11.53	NCLSHT
NBA0312_4-25	25	4	12	53948.2	53948.2	0.02%					40	7	9.73	NCLSHT
NBA0412_4-25	25	4	12	54866.3	54866.3	0.00%					28	5	5.42	NCLSHT
NBA0512_4-25	25	4	12	57028.2	57028.2	0.00%					34	6	6.52	NCLSHT
NBA0612_4-25	25	4	12	50604.5	50604.5	0.00%					17	3	3.16	NCLSHT
NBA0712_4-25	25	4	12	55377.9	55377.9	0.00%					34	6	13.21	NCLSHT
NBA0812_4-25	25	4	12	53969.7	53969.7	0.00%					17	3	4.40	NCLSHT
NBA0912_4-25	25	4	12	54755.7	54755.7	0.03%					29	5	8.81	NCLSHT
NBA0018_4-25	25	4	18	77883.9	77883.9	0.01%					30	4	25.12	NCLSHT
NBA0118_4-25	25	4	18	83801.3	83801.3	0.00%					44	6	14.83	NCLSHT
NBA0218_4-25	25	4	18	80776.0	80776.0	0.00%					60	8	26.32	NCLSHT
NBA0318_4-25	25	4	18	80246.3	80246.3	0.00%					52	7	18.64	NCLSHT
NBA0418_4-25	25	4	18	83279.8	83279.8	0.00%					22	3	5.31	NCLSHT
NBA0518_4-25	25	4	18	84247.7	84247.7	0.01%					36	5	14.41	NCLSHT
NBA0618_4-25	25	4	18	77305.9	77305.9	0.00%					30	4	7.50	NCLSHT
NBA0718_4-25	25	4	18	82389.6	82389.6	0.00%					60	8	32.38	NCLSHT
NBA0818_4-25	25	4	18	78378.5	78378.5	0.00%					52	7	14.52	NCLSHT
NBA0918_4-25	25	4	18	82201.5	82201.5	0.00%					38	5	21.03	NCLSHT
NBA006_4-50	50	4	6	54577.3	54577.3	0.00%					10	2	2.35	NCLSHT
NBA016_4-50	50	4	6	55352.3	55352.3	0.00%					10	2	2.57	NCLSHT
NBA026_4-50	50	4	6	55982.7	55982.7	0.00%					15	3	2.38	NCLSHT
NBA036_4-50	50	4	6	55089.4	55089.4	0.00%					10	2	3.65	NCLSHT
NBA046_4-50	50	4	6	56679.7	56679.7	0.03%					15	3	6.39	NCLSHT
NBA056_4-50	50	4	6	57331.7	57331.7	0.00%					15	3	1.72	NCLSHT
NBA066_4-50	50	4	6	52798.6	52798.6	0.00%					10	2	1.96	NCLSHT
NBA076_4-50	50	4	6	51568.4	51568.4	0.01%					15	3	2.84	NCLSHT
NBA086_4-50	50	4	6	52838.0	52838.0	0.01%					10	2	2.84	NCLSHT
NBA096_4-50	50	4	6	60101.0	60101.0	0.00%					10	2	2.06	NCLSHT
NBA0012_4-50	50	4	12	110278.2	110278.2	0.00%					40	7	36.74	NCLSHT
NBA0112_4-50	50	4	12	108409.8	108409.8	0.00%					34	6	8.65	NCLSHT
NBA0212_4-50	50	4	12	107881.1	107881.1	0.00%					40	7	11.25	NCLSHT
NBA0312_4-50	50	4	12	109984.9	109984.9	0.00%					23	4	13.71	NCLSHT
NBA0412_4-50	50	4	12	109447.1	109447.1	0.00%					23	4	10.18	NCLSHT
NBA0512_4-50	50	4	12	111970.9	111970.9	0.00%					39	7	10.36	NCLSHT
NBA0612_4-50	50	4	12	103970.5	103970.5	0.00%					17	3	4.15	NCLSHT
NBA0712_4-50	50	4	12	106401.2	106401.2	0.00%					45	8	26.44	NCLSHT
NBA0812_4-50	50	4	12	106458.2	106458.2	0.00%					28	5	6.61	NCLSHT
NBA0912_4-50	50	4	12	114303.3	114303.3	0.00%					28	5	8.60	NCLSHT
NBA0018_4-50	50	4	18	159938.8	159938.8	0.00%					44	6	19.75	NCLSHT
NBA0118_4-50	50	4	18	161690.1	161690.1	0.00%					52	7	23.01	NCLSHT
NBA0218_4-50	50	4	18	162670.8	162670.8	0.00%					52	7	63.62	NCLSHT
NBA0318_4-50	50	4	18	162994.6	162994.6	0.00%					22	3	21.11	NCLSHT
NBA0418_4-50	50	4	18	166161.4	166161.4	0.00%					44	6	36.42	NCLSHT
NBA0518_4-50	50	4	18	167982.1	167982.1	0.00%					22	3	12.70	NCLSHT
NBA0618_4-50	50	4	18	156251.1	156251.1	0.00%					30	4	12.69	NCLSHT
NBA0718_4-50	50	4	18	161440.2	161440.2	0.01%					38	5	62.65	NCLSHT
NBA0818_4-50	50	4	18	157274.1	157274.1	0.00%					44	6	13.30	NCLSHT
NBA0918_4-50	50	4	18	168431.7	168431.7	0.00%					36	5	19.38	NCLSHT
NBA006_6-6	6	6	6	5607.3	5607.3	0.00%					10	2	0.68	NCLSHT
NBA016_6-6	6	6	6	7113.2	7113.2	0.00%					15	3	2.00	NCLSHT
NBA026_6-6	6	6	6	6939.6	6939.6	0.00%					15	3	1.16	NCLSHT
NBA036_6-6	6	6	6	7380.7	7380.7	0.88%					15	3	1.08	NCLSHT
NBA046_6-6	6	6	6	8017.1	8017.1	0.00%					15	3	2.17	NCLSHT
NBA056_6-6	6	6	6	7914.6	7914.6	0.04%					20	4	2.07	NCLSHT
NBA066_6-6	6	6	6	6664.8	6664.8	0.06%					15	3	0.97	NCLSHT
NBA076_6-6	6	6	6	7702.2	7702.2	0.09%					15	3	1.83	NCLSHT
NBA086_6-6	6	6	6	6624.8	6624.8	0.00%					15	3	1.98	NCLSHT
NBA096_6-6	6	6	6	7390.7	7390.7	0.00%					15	3	4.19	NCLSHT
NBA0012_6-6	6	6	12	11955.5	11955.5	0.00%					29	5	2.45	NCLSHT
NBA0112_6-6	6	6	12	14045.8	14045.8	0.01%					69	12	15.98	NCLSHT
NBA0212_6-6	6	6	12	14140.5	14140.5	0.00%					34	6	8.16	NCLSHT
NBA0312_6-6	6	6	12	14723.4	14723.4	0.13%					57	10	8.69	NCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0412_6-6	6	6	12	14770.6	14770.6	0.14%					29	5	8.09	NCLSHT
NBA0512_6-6	6	6	12	14522.2	14522.2	0.04%					40	7	5.65	NCLSHT
NBA0612_6-6	6	6	12	12568.0	12568.0	0.00%					23	4	5.76	NCLSHT
NBA0712_6-6	6	6	12	15111.1	15111.1	0.01%					29	5	6.46	NCLSHT
NBA0812_6-6	6	6	12	12278.5	12278.5	0.00%					40	7	8.22	NCLSHT
NBA0912_6-6	6	6	12	13988.6	13988.6	0.00%					29	5	6.67	NCLSHT
NBA0018_6-6	6	6	18	17742.3	17742.3	0.00%					44	6	6.66	NCLSHT
NBA0118_6-6	6	6	18	21526.3	21526.3	0.00%					60	8	22.45	NCLSHT
NBA0218_6-6	6	6	18	19870.5	19870.5	0.00%					46	6	20.50	NCLSHT
NBA0318_6-6	6	6	18	20492.7	20492.7	0.00%					38	5	13.46	NCLSHT
NBA0418_6-6	6	6	18	21953.4	21953.4	0.00%					30	4	17.53	NCLSHT
NBA0518_6-6	6	6	18	22129.7	22129.7	0.00%					52	7	22.37	NCLSHT
NBA0618_6-6	6	6	18	19938.6	19938.6	0.00%					38	5	15.46	NCLSHT
NBA0718_6-6	6	6	18	21759.8	21759.8	0.00%					30	4	14.22	NCLSHT
NBA0818_6-6	6	6	18	19912.5	19912.5	0.02%					82	11	33.53	NCLSHT
NBA0918_6-6	6	6	18	21302.0	21302.0	0.03%					68	9	29.05	NCLSHT
NBA006_6-12	12	6	6	12731.3	12731.3	0.09%					20	4	2.30	NCLSHT
NBA016_6-12	12	6	6	13041.8	13041.8	0.06%					15	3	2.23	NCLSHT
NBA026_6-12	12	6	6	12007.6	12007.6	0.00%					15	3	1.29	NCLSHT
NBA036_6-12	12	6	6	12923.5	12923.5	0.00%					15	3	1.28	NCLSHT
NBA046_6-12	12	6	6	12760.0	12760.0	0.00%					15	3	1.33	NCLSHT
NBA056_6-12	12	6	6	12333.4	12333.4	0.00%					15	3	1.17	NCLSHT
NBA066_6-12	12	6	6	11650.8	11650.8	0.08%					30	6	3.20	NCLSHT
NBA076_6-12	12	6	6	13567.6	13567.6	0.65%					15	3	5.48	NCLSHT
NBA086_6-12	12	6	6	13405.1	13405.1	0.23%					15	3	2.78	NCLSHT
NBA096_6-12	12	6	6	14311.8	14311.8	0.07%					20	4	3.33	NCLSHT
NBA0012_6-12	12	6	12	24110.7	24110.7	0.00%					34	6	6.02	NCLSHT
NBA0112_6-12	12	6	12	25521.9	25521.9	0.00%					34	6	8.78	NCLSHT
NBA0212_6-12	12	6	12	24025.6	24025.6	0.00%					51	9	12.05	NCLSHT
NBA0312_6-12	12	6	12	26446.1	26446.1	0.00%					40	7	6.95	NCLSHT
NBA0412_6-12	12	6	12	24982.9	24982.9	0.00%					17	3	2.68	NCLSHT
NBA0512_6-12	12	6	12	26188.4	26188.4	0.00%					34	6	6.19	NCLSHT
NBA0612_6-12	12	6	12	23453.7	23453.7	0.00%					29	5	9.60	NCLSHT
NBA0712_6-12	12	6	12	27876.1	27876.1	0.00%					29	5	28.41	NCLSHT
NBA0812_6-12	12	6	12	25602.1	25602.1	0.00%					40	7	18.34	NCLSHT
NBA0912_6-12	12	6	12	27276.2	27276.2	0.00%					52	9	23.64	NCLSHT
NBA0018_6-12	12	6	18	36370.4	36370.4	0.00%					38	5	13.30	NCLSHT
NBA0118_6-12	12	6	18	40980.5	40980.5	0.02%					52	7	22.48	NCLSHT
NBA0218_6-12	12	6	18	36656.3	36656.3	0.00%					38	5	15.89	NCLSHT
NBA0318_6-12	12	6	18	38314.3	38314.3	0.00%					38	5	13.19	NCLSHT
NBA0418_6-12	12	6	18	36991.3	36991.3	0.00%					44	6	11.94	NCLSHT
NBA0518_6-12	12	6	18	40380.4	40380.4	0.00%					38	5	18.88	NCLSHT
NBA0618_6-12	12	6	18	37140.3	37140.3	0.00%					38	5	24.97	NCLSHT
NBA0718_6-12	12	6	18	41281.9	41281.9	0.02%					52	7	40.12	NCLSHT
NBA0818_6-12	12	6	18	39070.7	39070.7	0.00%					44	6	72.71	NCLSHT
NBA0918_6-12	12	6	18	41048.4	41048.4	0.04%					38	5	31.04	NCLSHT
NBA006_6-25	25	6	6	25561.5	25561.5	0.02%					10	2	3.66	NCLSHT
NBA016_6-25	25	6	6	25302.8	25302.8	0.01%					15	3	3.06	NCLSHT
NBA026_6-25	25	6	6	26727.4	26727.4	0.04%					15	3	2.69	NCLSHT
NBA036_6-25	25	6	6	26599.6	26599.6	0.13%					15	3	6.09	NCLSHT
NBA046_6-25	25	6	6	28359.7	28359.7	0.00%					20	4	9.62	NCLSHT
NBA056_6-25	25	6	6	26229.3	26229.3	0.03%					15	3	3.88	NCLSHT
NBA066_6-25	25	6	6	25278.4	25278.4	0.00%					15	3	1.87	NCLSHT
NBA076_6-25	25	6	6	27849.6	27849.6	0.00%					15	3	3.45	NCLSHT
NBA086_6-25	25	6	6	26567.2	26567.2	0.02%					15	3	2.82	NCLSHT
NBA096_6-25	25	6	6	26259.9	26259.9	0.00%					20	4	3.72	NCLSHT
NBA0012_6-25	25	6	12	52244.8	52244.8	0.00%					23	4	14.37	NCLSHT
NBA0112_6-25	25	6	12	52477.0	52477.0	0.01%					51	9	91.72	NCLSHT
NBA0212_6-25	25	6	12	53883.4	53883.4	0.01%					52	9	17.66	NCLSHT
NBA0312_6-25	25	6	12	52207.5	52207.5	0.01%					51	9	66.59	NCLSHT
NBA0412_6-25	25	6	12	55764.7	55764.7	0.00%					35	6	59.91	NCLSHT
NBA0512_6-25	25	6	12	51650.3	51650.3	0.02%					29	5	39.32	NCLSHT
NBA0612_6-25	25	6	12	50892.0	50892.0	0.00%					23	4	5.00	NCLSHT
NBA0712_6-25	25	6	12	52538.0	52538.0	0.02%					57	10	27.19	NCLSHT
NBA0812_6-25	25	6	12	51075.3	51075.3	0.00%					29	5	11.79	NCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBA0912_6-25	25	6	12	53464.4	53464.4	0.00%					40	7	19.68	NCLSHT
NBA0018_6-25	25	6	18	76087.5	76087.5	0.03%					74	10	159.73	NCLSHT
NBA0118_6-25	25	6	18	79195.6	79195.6	0.00%					38	5	37.17	NCLSHT
NBA0218_6-25	25	6	18	81495.4	81495.4	0.00%					38	5	38.38	NCLSHT
NBA0318_6-25	25	6	18	79343.7	79343.7	0.00%					46	6	77.76	NCLSHT
NBA0418_6-25	25	6	18	84593.5	84593.5	0.01%					60	8	175.38	NCLSHT
NBA0518_6-25	25	6	18	80778.5	80778.5	0.00%					82	11	57.40	NCLSHT
NBA0618_6-25	25	6	18	76171.5	76171.5	0.01%					30	4	12.35	NCLSHT
NBA0718_6-25	25	6	18	77487.6	77487.6	0.01%					66	9	62.63	NCLSHT
NBA0818_6-25	25	6	18	74936.0	74936.0	0.00%					44	6	31.96	NCLSHT
NBA0918_6-25	25	6	18	81166.6	81166.6	0.00%					44	6	29.97	NCLSHT
NBA006_6-50	50	6	6	50530.5	50530.5	0.00%					10	2	3.23	NCLSHT
NBA016_6-50	50	6	6	50584.3	50584.3	0.00%					10	2	5.19	NCLSHT
NBA026_6-50	50	6	6	52059.4	52059.4	0.00%					10	2	4.32	NCLSHT
NBA036_6-50	50	6	6	51600.5	51600.5	0.00%					10	2	2.70	NCLSHT
NBA046_6-50	50	6	6	53895.4	53895.4	0.03%					15	3	11.29	NCLSHT
NBA056_6-50	50	6	6	52668.0	52668.0	0.02%					10	2	5.28	NCLSHT
NBA066_6-50	50	6	6	51786.8	51786.8	0.00%					15	3	10.65	NCLSHT
NBA076_6-50	50	6	6	53957.4	53957.4	0.02%					15	3	5.16	NCLSHT
NBA086_6-50	50	6	6	50767.6	50767.6	0.00%					15	3	3.13	NCLSHT
NBA096_6-50	50	6	6	50615.8	50615.8	0.00%					10	2	3.00	NCLSHT
NBA0012_6-50	50	6	12	102385.2	102385.2	0.00%					34	6	14.22	NCLSHT
NBA0112_6-50	50	6	12	101403.3	101403.3	0.00%					40	7	21.64	NCLSHT
NBA0212_6-50	50	6	12	104862.2	104862.2	0.00%					23	4	26.46	NCLSHT
NBA0312_6-50	50	6	12	102384.7	102384.7	0.00%					68	12	33.91	NCLSHT
NBA0412_6-50	50	6	12	109568.4	109568.4	0.00%					57	10	40.44	NCLSHT
NBA0512_6-50	50	6	12	105138.8	105138.8	0.00%					23	4	46.72	NCLSHT
NBA0612_6-50	50	6	12	101764.2	101764.2	0.00%					46	8	38.64	NCLSHT
NBA0712_6-50	50	6	12	107431.9	107431.9	0.00%					45	8	19.16	NCLSHT
NBA0812_6-50	50	6	12	99742.5	99742.5	0.00%					40	7	15.79	NCLSHT
NBA0912_6-50	50	6	12	102195.6	102195.6	0.00%					29	5	22.47	NCLSHT
NBA0018_6-50	50	6	18	152623.6	152623.6	0.00%					30	4	28.26	NCLSHT
NBA0118_6-50	50	6	18	150738.5	150738.5	0.00%					30	4	59.06	NCLSHT
NBA0218_6-50	50	6	18	154212.4	154212.4	0.00%					38	5	79.85	NCLSHT
NBA0318_6-50	50	6	18	154026.0	154026.0	0.00%					44	6	44.45	NCLSHT
NBA0418_6-50	50	6	18	164553.0	164553.0	0.00%					38	5	67.18	NCLSHT
NBA0518_6-50	50	6	18	155184.7	155184.7	0.01%					38	5	103.52	NCLSHT
NBA0618_6-50	50	6	18	153862.5	153862.5	0.00%					44	6	94.43	NCLSHT
NBA0718_6-50	50	6	18	158993.5	158993.5	0.00%					30	4	41.78	NCLSHT
NBA0818_6-50	50	6	18	150914.1	150914.1	0.00%					22	3	33.18	NCLSHT
NBA0918_6-50	50	6	18	154009.6	154009.6	0.00%					38	5	27.68	NCLSHT
NBB006_2-6	6	2	6	8081.5	8081.5	0.00%					15	3	0.66	NCLSLT
NBB016_2-6	6	2	6	5923.7	5923.7	0.00%					10	2	0.25	NCLSLT
NBB026_2-6	6	2	6	6940.7	6940.7	0.00%					15	3	0.47	NCLSLT
NBB036_2-6	6	2	6	7760.8	7760.8	0.60%					20	4	0.57	NCLSLT
NBB046_2-6	6	2	6	7818.6	7818.6	0.26%					15	3	0.55	NCLSLT
NBB056_2-6	6	2	6	9352.5	9352.5	0.00%					10	2	0.27	NCLSLT
NBB066_2-6	6	2	6	8012.0	8012.0	0.00%					15	3	0.44	NCLSLT
NBB076_2-6	6	2	6	9072.2	9072.2	0.00%					20	4	0.68	NCLSLT
NBB086_2-6	6	2	6	8182.5	8182.5	0.00%					10	2	0.38	NCLSLT
NBB096_2-6	6	2	6	7089.9	7089.9	0.00%					15	3	0.27	NCLSLT
NBB0012_2-6	6	2	12	15489.2	15489.2	0.00%					52	9	3.30	NCLSLT
NBB0112_2-6	6	2	12	13322.4	13322.4	0.00%					45	8	1.90	NCLSLT
NBB0212_2-6	6	2	12	14645.3	14645.3	0.39%					29	5	2.09	NCLSLT
NBB0312_2-6	6	2	12	14732.6	14732.6	0.01%					46	8	2.39	NCLSLT
NBB0412_2-6	6	2	12	13686.1	13686.1	0.64%					35	6	3.69	NCLSLT
NBB0512_2-6	6	2	12	17339.3	17339.3	0.00%					40	7	1.63	NCLSLT
NBB0612_2-6	6	2	12	14882.7	14882.7	0.00%					28	5	1.50	NCLSLT
NBB0712_2-6	6	2	12	16591.7	16591.7	0.00%					40	7	2.50	NCLSLT
NBB0812_2-6	6	2	12	14140.1	14140.1	0.00%					34	6	2.13	NCLSLT
NBB0912_2-6	6	2	12	16075.5	16075.5	0.00%					34	6	1.28	NCLSLT
NBB0018_2-6	6	2	18	21645.0	21645.0	0.02%					82	11	11.36	NCLSLT
NBB0118_2-6	6	2	18	20072.1	20072.1	0.00%					44	6	2.52	NCLSLT
NBB0218_2-6	6	2	18	22350.5	22350.5	0.01%					38	5	4.34	NCLSLT
NBB0418_2-6	6	2	18	20015.1	20015.1	0.00%					46	6	8.03	NCLSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0518_2-6	6	2	18	24966.1	24966.1	0.00%					38	5	2.74	NCLSLT
NBB0618_2-6	6	2	18	22709.0	22709.0	0.06%					44	6	4.25	NCLSLT
NBB0718_2-6	6	2	18	24308.0	24308.0	0.04%					44	6	7.03	NCLSLT
NBB0818_2-6	6	2	18	20809.2	20809.2	0.00%					74	10	5.92	NCLSLT
NBB0918_2-6	6	2	18	22436.5	22436.5	0.00%					38	5	2.63	NCLSLT
NBB006_2-12	12	2	6	12635.0	12635.0	0.00%					10	2	0.37	NCLSLT
NBB016_2-12	12	2	6	13882.6	13882.6	0.00%					10	2	0.55	NCLSLT
NBB026_2-12	12	2	6	14057.0	14057.0	0.02%					20	4	1.05	NCLSLT
NBB036_2-12	12	2	6	16322.7	16322.7	0.03%					10	2	0.51	NCLSLT
NBB046_2-12	12	2	6	14153.7	14153.7	0.02%					10	2	0.58	NCLSLT
NBB056_2-12	12	2	6	16478.1	16478.1	0.00%					20	4	0.64	NCLSLT
NBB066_2-12	12	2	6	13804.5	13804.5	0.41%					10	2	0.54	NCLSLT
NBB076_2-12	12	2	6	15396.6	15396.6	0.00%					10	2	0.50	NCLSLT
NBB086_2-12	12	2	6	12751.3	12751.3	0.00%					10	2	0.48	NCLSLT
NBB096_2-12	12	2	6	15906.8	15906.8	0.43%					15	3	0.89	NCLSLT
NBB0012_2-12	12	2	12	26086.9	26086.9	0.00%					23	4	1.54	NCLSLT
NBB0112_2-12	12	2	12	27401.2	27401.2	0.00%					23	4	1.60	NCLSLT
NBB0212_2-12	12	2	12	27086.7	27086.7	0.13%					45	8	5.99	NCLSLT
NBB0312_2-12	12	2	12	31689.7	31689.7	0.04%					40	7	2.50	NCLSLT
NBB0412_2-12	12	2	12	28227.9	28227.9	0.01%					52	9	4.25	NCLSLT
NBB0512_2-12	12	2	12	32001.0	32001.0	0.00%					34	6	2.43	NCLSLT
NBB0612_2-12	12	2	12	27169.9	27169.9	0.03%					34	6	1.71	NCLSLT
NBB0712_2-12	12	2	12	30253.9	30253.9	0.03%					23	4	2.31	NCLSLT
NBB0812_2-12	12	2	12	26667.8	26667.8	0.16%					45	8	4.49	NCLSLT
NBB0912_2-12	12	2	12	30969.6	30969.6	0.09%					57	10	25.93	NCLSLT
NBB0018_2-12	12	2	18	39324.8	39324.8	0.00%					30	4	3.11	NCLSLT
NBB0118_2-12	12	2	18	40340.6	40340.6	0.00%					60	8	7.23	NCLSLT
NBB0218_2-12	12	2	18	41456.0	41456.0	0.02%					60	8	15.93	NCLSLT
NBB0318_2-12	12	2	18	46144.9	46144.9	0.00%					30	4	6.73	NCLSLT
NBB0418_2-12	12	2	18	44107.2	44107.2	0.00%					52	7	8.86	NCLSLT
NBB0518_2-12	12	2	18	47248.1	47248.1	0.02%					30	4	4.88	NCLSLT
NBB0618_2-12	12	2	18	40542.2	40542.2	0.00%					60	8	6.23	NCLSLT
NBB0718_2-12	12	2	18	45402.9	45402.9	0.00%					22	3	3.52	NCLSLT
NBB0818_2-12	12	2	18	41200.8	41200.8	0.00%					46	6	8.68	NCLSLT
NBB0918_2-12	12	2	18	47142.3	47142.3	0.00%					30	4	16.75	NCLSLT
NBB006_2-25	25	2	6	29143.6	29143.6	0.00%					10	2	0.79	NCLSLT
NBB016_2-25	25	2	6	29864.0	29864.0	0.08%					15	3	1.42	NCLSLT
NBB026_2-25	25	2	6	28421.0	28421.0	0.00%					10	2	1.09	NCLSLT
NBB036_2-25	25	2	6	30155.8	30155.8	0.11%					10	2	1.38	NCLSLT
NBB046_2-25	25	2	6	31325.2	31325.2	0.02%					10	2	1.15	NCLSLT
NBB056_2-25	25	2	6	31397.4	31397.4	0.13%					10	2	1.52	NCLSLT
NBB066_2-25	25	2	6	27873.5	27873.5	0.00%					10	2	0.53	NCLSLT
NBB076_2-25	25	2	6	31237.5	31237.5	0.03%					10	2	1.21	NCLSLT
NBB086_2-25	25	2	6	31989.1	31989.1	0.08%					15	3	1.64	NCLSLT
NBB096_2-25	25	2	6	33004.5	33004.5	0.08%					10	2	1.22	NCLSLT
NBB0012_2-25	25	2	12	58130.1	58130.1	0.01%					28	5	2.48	NCLSLT
NBB0112_2-25	25	2	12	60823.5	60823.5	0.03%					34	6	6.18	NCLSLT
NBB0212_2-25	25	2	12	56107.3	56107.3	0.00%					40	7	5.75	NCLSLT
NBB0312_2-25	25	2	12	59102.8	59102.8	0.03%					40	7	5.57	NCLSLT
NBB0412_2-25	25	2	12	59541.4	59541.4	0.02%					52	9	6.78	NCLSLT
NBB0512_2-25	25	2	12	64766.0	64766.0	0.02%					51	9	7.32	NCLSLT
NBB0612_2-25	25	2	12	57138.7	57138.7	0.00%					17	3	1.42	NCLSLT
NBB0712_2-25	25	2	12	62685.7	62685.7	0.00%					29	5	5.22	NCLSLT
NBB0812_2-25	25	2	12	62619.0	62619.0	0.01%					34	6	8.40	NCLSLT
NBB0912_2-25	25	2	12	63811.6	63811.6	0.01%					34	6	3.92	NCLSLT
NBB0018_2-25	25	2	18	86991.8	86991.8	0.00%					22	3	3.58	NCLSLT
NBB0118_2-25	25	2	18	88477.8	88477.8	0.00%					30	4	5.83	NCLSLT
NBB0218_2-25	25	2	18	83120.8	83120.8	0.01%					68	9	20.07	NCLSLT
NBB0318_2-25	25	2	18	91179.7	91179.7	0.00%					30	4	6.09	NCLSLT
NBB0418_2-25	25	2	18	90430.0	90430.0	0.00%					38	5	12.36	NCLSLT
NBB0518_2-25	25	2	18	94854.1	94854.1	0.04%					38	5	34.38	NCLSLT
NBB0618_2-25	25	2	18	83492.0	83492.0	0.00%					30	4	3.29	NCLSLT
NBB0718_2-25	25	2	18	92028.2	92028.2	0.00%					44	6	16.83	NCLSLT
NBB0818_2-25	25	2	18	91278.7	91278.7	0.00%					30	4	13.78	NCLSLT
NBB0918_2-25	25	2	18	92931.5	92931.5	0.01%					44	6	14.22	NCLSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB006_2-50	50	2	6	58737.8	58737.8	0.00%					10	2	1.33	NCLSLT
NBB016_2-50	50	2	6	60248.1	60248.1	0.01%					10	2	1.39	NCLSLT
NBB026_2-50	50	2	6	55940.9	55940.9	0.00%					10	2	1.55	NCLSLT
NBB036_2-50	50	2	6	59152.1	59152.1	0.01%					10	2	1.74	NCLSLT
NBB046_2-50	50	2	6	60651.7	60651.7	0.00%					10	2	2.20	NCLSLT
NBB056_2-50	50	2	6	59229.8	59229.8	0.06%					10	2	1.50	NCLSLT
NBB066_2-50	50	2	6	55845.9	55845.9	0.00%					10	2	1.45	NCLSLT
NBB076_2-50	50	2	6	58799.3	58799.3	0.00%					10	2	1.59	NCLSLT
NBB086_2-50	50	2	6	59888.9	59888.9	0.01%					10	2	2.06	NCLSLT
NBB096_2-50	50	2	6	60526.4	60526.4	0.00%					10	2	1.90	NCLSLT
NBB0012_2-50	50	2	12	117269.4	117269.4	0.00%					34	6	4.30	NCLSLT
NBB0112_2-50	50	2	12	119788.8	119788.8	0.00%					17	3	3.59	NCLSLT
NBB0212_2-50	50	2	12	113901.0	113901.0	0.00%					28	5	9.83	NCLSLT
NBB0312_2-50	50	2	12	119784.4	119784.4	0.00%					28	5	6.99	NCLSLT
NBB0412_2-50	50	2	12	121915.5	121915.5	0.00%					34	6	11.73	NCLSLT
NBB0512_2-50	50	2	12	119153.5	119153.5	0.00%					29	5	5.46	NCLSLT
NBB0612_2-50	50	2	12	113553.7	113553.7	0.00%					28	5	4.14	NCLSLT
NBB0712_2-50	50	2	12	114553.6	114553.6	0.01%					17	3	5.80	NCLSLT
NBB0812_2-50	50	2	12	115202.2	115202.2	0.00%					28	5	8.71	NCLSLT
NBB0912_2-50	50	2	12	122296.0	122296.0	0.01%					34	6	8.11	NCLSLT
NBB0018_2-50	50	2	18	175723.7	175723.7	0.00%					36	5	6.63	NCLSLT
NBB0118_2-50	50	2	18	178702.4	178702.4	0.00%					36	5	8.02	NCLSLT
NBB0218_2-50	50	2	18	169531.4	169531.4	0.00%					36	5	14.51	NCLSLT
NBB0318_2-50	50	2	18	180942.2	180942.2	0.01%					22	3	10.94	NCLSLT
NBB0418_2-50	50	2	18	181469.9	181469.9	0.00%					82	11	116.87	NCLSLT
NBB0518_2-50	50	2	18	180944.5	180944.5	0.00%					30	4	9.32	NCLSLT
NBB0618_2-50	50	2	18	171669.4	171669.4	0.00%					30	4	9.35	NCLSLT
NBB0718_2-50	50	2	18	172315.5	172315.5	0.00%					22	3	9.98	NCLSLT
NBB0818_2-50	50	2	18	173342.1	173342.1	0.00%					52	7	27.18	NCLSLT
NBB0918_2-50	50	2	18	182739.8	182739.8	0.00%					30	4	16.73	NCLSLT
NBB006_4-6	6	4	6	6354.9	6354.9	0.00%					15	3	0.78	NCLSLT
NBB016_4-6	6	4	6	7250.9	7250.9	0.00%					20	4	1.58	NCLSLT
NBB026_4-6	6	4	6	7329.5	7329.5	0.00%					20	4	1.06	NCLSLT
NBB036_4-6	6	4	6	6717.6	6717.6	0.16%					15	3	1.08	NCLSLT
NBB046_4-6	6	4	6	5568.9	5568.9	0.00%					15	3	0.82	NCLSLT
NBB056_4-6	6	4	6	7986.1	7986.1	1.09%					15	3	2.16	NCLSLT
NBB066_4-6	6	4	6	6392.5	6392.5	0.07%					15	3	1.01	NCLSLT
NBB076_4-6	6	4	6	7687.1	7687.1	0.00%					10	2	0.56	NCLSLT
NBB086_4-6	6	4	6	5882.1	5882.1	0.32%					15	3	1.03	NCLSLT
NBB096_4-6	6	4	6	8521.1	8521.1	0.00%					10	2	0.89	NCLSLT
NBB0012_4-6	6	4	12	11759.4	11759.4	0.00%					35	6	2.78	NCLSLT
NBB0112_4-6	6	4	12	15228.5	15228.5	0.00%					46	8	7.23	NCLSLT
NBB0212_4-6	6	4	12	14584.9	14584.9	0.00%					40	7	6.00	NCLSLT
NBB0312_4-6	6	4	12	14412.2	14412.2	0.00%					29	5	3.44	NCLSLT
NBB0412_4-6	6	4	12	12915.9	12915.9	0.25%					57	10	14.66	NCLSLT
NBB0512_4-6	6	4	12	15807.8	15807.8	0.00%					52	9	12.90	NCLSLT
NBB0612_4-6	6	4	12	12773.8	12773.8	0.00%					34	6	4.03	NCLSLT
NBB0712_4-6	6	4	12	14712.6	14712.6	0.00%					40	7	4.41	NCLSLT
NBB0812_4-6	6	4	12	12363.6	12363.6	0.00%					51	9	6.39	NCLSLT
NBB0912_4-6	6	4	12	14839.4	14839.4	0.02%					34	6	4.48	NCLSLT
NBB0018_4-6	6	4	18	18652.8	18652.8	0.00%					60	8	11.74	NCLSLT
NBB0118_4-6	6	4	18	21716.4	21716.4	0.00%					52	7	23.44	NCLSLT
NBB0218_4-6	6	4	18	21436.5	21436.5	0.00%					60	8	12.08	NCLSLT
NBB0318_4-6	6	4	18	22037.0	22037.0	0.00%					44	6	10.91	NCLSLT
NBB0418_4-6	6	4	18	19969.8	19969.8	0.00%					38	5	12.37	NCLSLT
NBB0518_4-6	6	4	18	23482.1	23482.1	0.00%					46	6	25.58	NCLSLT
NBB0618_4-6	6	4	18	19868.3	19868.3	0.00%					60	8	18.25	NCLSLT
NBB0718_4-6	6	4	18	22416.2	22416.2	0.00%					38	5	8.51	NCLSLT
NBB0818_4-6	6	4	18	18186.6	18186.6	0.00%					30	4	8.30	NCLSLT
NBB0918_4-6	6	4	18	22163.4	22163.4	0.10%					44	6	9.28	NCLSLT
NBB006_4-12	12	4	6	13286.3	13286.3	0.00%					10	2	1.59	NCLSLT
NBB016_4-12	12	4	6	15431.2	15431.2	0.03%					15	3	3.05	NCLSLT
NBB026_4-12	12	4	6	13158.9	13158.9	0.00%					15	3	1.36	NCLSLT
NBB036_4-12	12	4	6	12376.6	12376.6	0.14%					15	3	2.18	NCLSLT
NBB046_4-12	12	4	6	14388.8	14388.8	0.17%					10	2	1.33	NCLSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB056_4-12	12	4	6	14168.8	14168.8	0.00%					20	4	2.95	NCLSLT
NBB066_4-12	12	4	6	12667.8	12667.8	0.00%					15	3	1.00	NCLSLT
NBB076_4-12	12	4	6	12482.3	12482.3	0.00%					15	3	1.25	NCLSLT
NBB086_4-12	12	4	6	14701.2	14701.2	0.02%					15	3	1.39	NCLSLT
NBB096_4-12	12	4	6	13306.2	13306.2	0.19%					10	2	2.02	NCLSLT
NBB0012_4-12	12	4	12	24833.9	24833.9	0.10%					75	13	21.21	NCLSLT
NBB0112_4-12	12	4	12	28626.1	28626.1	0.00%					63	11	39.70	NCLSLT
NBB0212_4-12	12	4	12	26534.4	26534.4	0.00%					63	11	15.17	NCLSLT
NBB0312_4-12	12	4	12	25484.4	25484.4	0.00%					46	8	8.27	NCLSLT
NBB0412_4-12	12	4	12	27361.6	27361.6	0.00%					40	7	7.52	NCLSLT
NBB0512_4-12	12	4	12	27954.2	27954.2	0.00%					46	8	10.88	NCLSLT
NBB0612_4-12	12	4	12	24649.4	24649.4	0.13%					29	5	3.02	NCLSLT
NBB0712_4-12	12	4	12	26360.5	26360.5	0.01%					40	7	8.88	NCLSLT
NBB0812_4-12	12	4	12	28127.9	28127.9	0.00%					34	6	6.89	NCLSLT
NBB0912_4-12	12	4	12	28655.4	28655.4	0.03%					46	8	31.75	NCLSLT
NBB0018_4-12	12	4	18	38493.6	38493.6	-0.02%					38	5	45.13	NCLSLT
NBB0118_4-12	12	4	18	42110.8	42110.8	0.04%					60	8	99.20	NCLSLT
NBB0218_4-12	12	4	18	39459.3	39459.3	0.00%					52	7	20.20	NCLSLT
NBB0318_4-12	12	4	18	39746.7	39746.7	0.00%					52	7	24.40	NCLSLT
NBB0418_4-12	12	4	18	40754.9	40754.9	0.00%					60	8	29.42	NCLSLT
NBB0518_4-12	12	4	18	41198.3	41198.3	0.03%					30	4	25.54	NCLSLT
NBB0618_4-12	12	4	18	37188.1	37188.1	0.00%					30	4	8.16	NCLSLT
NBB0718_4-12	12	4	18	41242.7	41242.7	0.00%					44	6	23.92	NCLSLT
NBB0818_4-12	12	4	18	42922.6	42922.6	0.06%					68	9	20.58	NCLSLT
NBB0918_4-12	12	4	18	41738.1	41738.1	-0.01%					52	7	76.94	NCLSLT
NBB006_4-25	25	4	6	25620.5	25620.5	0.07%					20	4	3.82	NCLSLT
NBB016_4-25	25	4	6	29513.0	29513.0	0.08%					15	3	2.69	NCLSLT
NBB026_4-25	25	4	6	27660.6	27660.6	0.03%					15	3	4.13	NCLSLT
NBB036_4-25	25	4	6	26071.8	26071.8	0.05%					20	4	5.29	NCLSLT
NBB046_4-25	25	4	6	26660.7	26660.7	0.01%					10	2	1.26	NCLSLT
NBB056_4-25	25	4	6	30184.7	30184.7	0.05%					20	4	3.80	NCLSLT
NBB066_4-25	25	4	6	25397.8	25397.8	0.05%					10	2	1.64	NCLSLT
NBB076_4-25	25	4	6	27108.5	27108.5	0.06%					15	3	5.02	NCLSLT
NBB086_4-25	25	4	6	26279.6	26279.6	0.05%					15	3	2.07	NCLSLT
NBB096_4-25	25	4	6	27956.4	27956.4	0.00%					10	2	4.39	NCLSLT
NBB0012_4-25	25	4	12	53749.4	53749.4	0.00%					69	12	44.83	NCLSLT
NBB0112_4-25	25	4	12	56359.1	56359.1	0.00%					28	5	11.86	NCLSLT
NBB0212_4-25	25	4	12	53361.2	53361.2	0.03%					45	8	53.54	NCLSLT
NBB0312_4-25	25	4	12	54139.1	54139.1	0.02%					40	7	31.05	NCLSLT
NBB0412_4-25	25	4	12	54985.2	54985.2	0.01%					52	9	14.35	NCLSLT
NBB0512_4-25	25	4	12	57156.5	57156.5	0.06%					51	9	15.94	NCLSLT
NBB0612_4-25	25	4	12	50718.6	50718.6	0.00%					29	5	6.49	NCLSLT
NBB0712_4-25	25	4	12	55619.5	55619.5	0.01%					63	11	92.99	NCLSLT
NBB0812_4-25	25	4	12	54126.4	54126.4	0.01%					29	5	12.53	NCLSLT
NBB0912_4-25	25	4	12	54986.0	54986.0	0.04%					40	7	47.32	NCLSLT
NBB0018_4-25	25	4	18	78137.3	78137.3	0.00%					38	5	51.17	NCLSLT
NBB0118_4-25	25	4	18	83941.4	83941.4	0.03%					74	10	35.94	NCLSLT
NBB0218_4-25	25	4	18	81001.2	81001.2	0.00%					30	4	61.24	NCLSLT
NBB0318_4-25	25	4	18	80534.6	80534.6	0.01%					60	8	49.86	NCLSLT
NBB0418_4-25	25	4	18	83347.1	83347.1	0.00%					30	4	8.54	NCLSLT
NBB0518_4-25	25	4	18	84476.2	84476.2	0.03%					38	5	53.07	NCLSLT
NBB0618_4-25	25	4	18	77417.4	77417.4	0.00%					52	7	15.10	NCLSLT
NBB0718_4-25	25	4	18	82782.0	82782.0	0.00%					44	6	107.36	NCLSLT
NBB0818_4-25	25	4	18	78524.1	78524.1	0.00%					52	7	24.09	NCLSLT
NBB0918_4-25	25	4	18	82454.2	82454.2	-0.01%					60	8	92.16	NCLSLT
NBB006_4-50	50	4	6	54642.1	54642.1	0.01%					10	2	3.59	NCLSLT
NBB016_4-50	50	4	6	55422.0	55422.0	0.01%					10	2	3.14	NCLSLT
NBB026_4-50	50	4	6	56064.7	56064.7	0.02%					15	3	4.72	NCLSLT
NBB036_4-50	50	4	6	55312.6	55312.6	0.08%					15	3	14.37	NCLSLT
NBB046_4-50	50	4	6	56935.8	56935.8	0.03%					15	3	10.06	NCLSLT
NBB056_4-50	50	4	6	57378.1	57378.1	0.01%					20	4	4.15	NCLSLT
NBB066_4-50	50	4	6	52877.4	52877.4	0.01%					15	3	3.90	NCLSLT
NBB076_4-50	50	4	6	51700.3	51700.3	0.05%					20	4	6.76	NCLSLT
NBB086_4-50	50	4	6	52926.5	52926.5	0.01%					10	2	3.88	NCLSLT
NBB096_4-50	50	4	6	60176.0	60176.0	0.02%					10	2	3.25	NCLSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0012_4-50	50	4	12	110453.6	110453.6	0.00%					34	6	45.96	NCLSLT
NBB0112_4-50	50	4	12	108483.7	108483.7	0.01%					45	8	18.39	NCLSLT
NBB0212_4-50	50	4	12	108020.3	108020.3	0.00%					28	5	20.35	NCLSLT
NBB0312_4-50	50	4	12	110209.3	110209.3	0.01%					57	10	39.71	NCLSLT
NBB0412_4-50	50	4	12	109732.4	109732.4	0.00%					57	10	110.27	NCLSLT
NBB0512_4-50	50	4	12	112014.1	112014.1	0.00%					17	3	7.39	NCLSLT
NBB0612_4-50	50	4	12	104018.2	104018.2	0.00%					17	3	6.50	NCLSLT
NBB0712_4-50	50	4	12	106646.5	106646.5	0.00%					51	9	96.73	NCLSLT
NBB0812_4-50	50	4	12	106520.5	106520.5	0.00%					23	4	7.82	NCLSLT
NBB0912_4-50	50	4	12	114387.6	114387.6	0.00%					51	9	35.66	NCLSLT
NBB0018_4-50	50	4	18	160098.6	160098.6	0.00%					44	6	48.68	NCLSLT
NBB0118_4-50	50	4	18	161829.7	161829.7	0.00%					52	7	37.29	NCLSLT
NBB0218_4-50	50	4	18	162914.4	162914.4	0.00%					30	4	32.02	NCLSLT
NBB0318_4-50	50	4	18	163399.6	163399.6	0.00%					46	6	131.85	NCLSLT
NBB0418_4-50	50	4	18	166614.8	166614.8	0.00%					68	9	178.03	NCLSLT
NBB0518_4-50	50	4	18	168099.5	168099.5	0.00%					38	5	27.21	NCLSLT
NBB0618_4-50	50	4	18	156361.5	156361.5	0.00%					52	7	27.97	NCLSLT
NBB0718_4-50	50	4	18	161798.8	161798.8	-0.01%					60	8	154.79	NCLSLT
NBB0818_4-50	50	4	18	157360.6	157360.6	0.00%					60	8	22.37	NCLSLT
NBB0918_4-50	50	4	18	168535.8	168535.8	0.00%					30	4	28.48	NCLSLT
NBB006_6-6	6	6	6	5717.1	5717.1	0.00%					15	3	1.16	NCLSLT
NBB016_6-6	6	6	6	7366.8	7366.8	0.10%					25	5	3.56	NCLSLT
NBB026_6-6	6	6	6	7014.1	7014.1	0.00%					20	4	1.36	NCLSLT
NBB036_6-6	6	6	6	7459.7	7459.7	0.00%					20	4	1.59	NCLSLT
NBB046_6-6	6	6	6	8168.9	8168.9	0.00%					15	3	2.28	NCLSLT
NBB056_6-6	6	6	6	8078.2	8078.2	0.13%					15	3	1.96	NCLSLT
NBB066_6-6	6	6	6	6775.2	6775.2	0.01%					20	4	1.50	NCLSLT
NBB076_6-6	6	6	6	7827.1	7827.1	0.00%					15	3	2.20	NCLSLT
NBB086_6-6	6	6	6	6762.7	6762.7	0.54%					15	3	2.55	NCLSLT
NBB096_6-6	6	6	6	7634.2	7634.2	0.43%					20	4	3.15	NCLSLT
NBB0012_6-6	6	6	12	12202.8	12202.8	0.00%					45	8	3.79	NCLSLT
NBB0112_6-6	6	6	12	14401.9	14401.9	0.00%					74	13	12.22	NCLSLT
NBB0212_6-6	6	6	12	14387.2	14387.2	0.15%					40	7	10.66	NCLSLT
NBB0312_6-6	6	6	12	14878.2	14878.2	0.00%					40	7	7.85	NCLSLT
NBB0412_6-6	6	6	12	15156.9	15156.9	0.13%					51	9	13.99	NCLSLT
NBB0512_6-6	6	6	12	14859.2	14859.2	0.15%					45	8	9.83	NCLSLT
NBB0612_6-6	6	6	12	12876.5	12876.5	0.00%					23	4	7.91	NCLSLT
NBB0712_6-6	6	6	12	15322.9	15322.9	0.00%					29	5	8.72	NCLSLT
NBB0812_6-6	6	6	12	12706.2	12706.2	0.06%					46	8	10.56	NCLSLT
NBB0912_6-6	6	6	12	14404.3	14404.3	0.04%					45	8	15.56	NCLSLT
NBB0018_6-6	6	6	18	18070.8	18070.8	0.00%					30	4	9.38	NCLSLT
NBB0218_6-6	6	6	18	20157.5	20157.5	0.01%					52	7	20.76	NCLSLT
NBB0318_6-6	6	6	18	20743.5	20743.5	0.00%					46	6	17.83	NCLSLT
NBB0418_6-6	6	6	18	22524.9	22524.9	0.00%					58	8	28.36	NCLSLT
NBB0518_6-6	6	6	18	22510.3	22510.3	0.00%					46	6	16.12	NCLSLT
NBB0618_6-6	6	6	18	20325.8	20325.8	0.09%					52	7	29.29	NCLSLT
NBB0718_6-6	6	6	18	22122.5	22122.5	0.00%					30	4	21.65	NCLSLT
NBB0818_6-6	6	6	18	20390.0	20390.0	0.28%					38	5	27.98	NCLSLT
NBB0918_6-6	6	6	18	21824.3	21824.3	0.02%					60	8	50.06	NCLSLT
NBB006_6-12	12	6	6	12846.9	12846.9	0.14%					15	3	2.99	NCLSLT
NBB016_6-12	12	6	6	13180.7	13180.7	0.13%					20	4	3.59	NCLSLT
NBB026_6-12	12	6	6	12155.3	12155.3	0.00%					20	4	2.55	NCLSLT
NBB036_6-12	12	6	6	13037.8	13037.8	0.15%					10	2	1.45	NCLSLT
NBB046_6-12	12	6	6	12812.2	12812.2	0.00%					15	3	1.96	NCLSLT
NBB056_6-12	12	6	6	12410.7	12410.7	0.00%					15	3	1.79	NCLSLT
NBB066_6-12	12	6	6	11748.5	11748.5	0.18%					10	2	2.15	NCLSLT
NBB076_6-12	12	6	6	13651.8	13651.8	0.05%					15	3	7.02	NCLSLT
NBB086_6-12	12	6	6	13543.9	13543.9	0.11%					20	4	4.39	NCLSLT
NBB096_6-12	12	6	6	14426.6	14426.6	0.00%					20	4	4.88	NCLSLT
NBB0012_6-12	12	6	12	24289.2	24289.2	0.00%					40	7	11.75	NCLSLT
NBB0112_6-12	12	6	12	25782.9	25782.9	0.00%					57	10	18.40	NCLSLT
NBB0212_6-12	12	6	12	24290.4	24290.4	0.01%					57	10	52.46	NCLSLT
NBB0312_6-12	12	6	12	26662.3	26662.3	0.00%					29	5	7.98	NCLSLT
NBB0412_6-12	12	6	12	25092.1	25092.1	0.00%					23	4	6.45	NCLSLT
NBB0512_6-12	12	6	12	26407.6	26407.6	0.00%					57	10	27.80	NCLSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0612_6-12	12	6	12	23726.3	23726.3	0.02%					52	9	19.33	NCLSLT
NBB0712_6-12	12	6	12	28198.8	28198.8	0.01%					46	8	54.77	NCLSLT
NBB0812_6-12	12	6	12	26081.3	26081.3	0.03%					46	8	38.91	NCLSLT
NBB0912_6-12	12	6	12	27503.9	27503.9	0.00%					68	12	38.14	NCLSLT
NBB0018_6-12	12	6	18	36608.8	36608.8	0.00%					60	8	34.46	NCLSLT
NBB0118_6-12	12	6	18	41384.9	41384.9	0.01%					38	5	36.08	NCLSLT
NBB0218_6-12	12	6	18	37074.7	37074.7	0.00%					82	11	83.59	NCLSLT
NBB0318_6-12	12	6	18	38612.3	38612.3	0.00%					54	7	27.53	NCLSLT
NBB0418_6-12	12	6	18	37150.4	37150.4	0.00%					52	7	19.88	NCLSLT
NBB0518_6-12	12	6	18	40708.1	40708.1	0.03%					66	9	35.08	NCLSLT
NBB0618_6-12	12	6	18	37562.0	37562.0	0.00%					60	8	116.50	NCLSLT
NBB0718_6-12	12	6	18	41753.1	41753.1	-0.04%					122	16	238.98	NCLSLT
NBB0818_6-12	12	6	18	39720.2	39720.2	0.06%					82	11	220.77	NCLSLT
NBB0918_6-12	12	6	18	41490.9	41490.9	0.00%					60	8	106.57	NCLSLT
NBB006_6-25	25	6	6	25735.7	25735.7	0.03%					15	3	21.94	NCLSLT
NBB016_6-25	25	6	6	25441.2	25441.2	0.01%					20	4	10.28	NCLSLT
NBB026_6-25	25	6	6	26826.7	26826.7	0.00%					15	3	6.49	NCLSLT
NBB036_6-25	25	6	6	26883.9	26883.9	0.06%					20	4	13.63	NCLSLT
NBB046_6-25	25	6	6	28629.7	28629.7	0.13%					20	4	37.00	NCLSLT
NBB056_6-25	25	6	6	26354.1	26354.1	0.03%					15	3	11.38	NCLSLT
NBB066_6-25	25	6	6	25363.9	25363.9	0.00%					15	3	6.14	NCLSLT
NBB076_6-25	25	6	6	28026.4	28026.4	0.00%					20	4	9.24	NCLSLT
NBB086_6-25	25	6	6	26727.2	26727.2	0.04%					20	4	19.97	NCLSLT
NBB096_6-25	25	6	6	26434.6	26434.6	0.07%					15	3	5.29	NCLSLT
NBB0012_6-25	25	6	12	52547.0	52547.0	0.00%					51	9	128.66	NCLSLT
NBB0112_6-25	25	6	12	52730.5	52730.5	0.01%					57	10	158.92	NCLSLT
NBB0212_6-25	25	6	12	54084.6	54084.6	0.01%					63	11	59.58	NCLSLT
NBB0312_6-25	25	6	12	52573.3	52573.3	0.03%					51	9	187.53	NCLSLT
NBB0412_6-25	25	6	12	56126.9	56126.9	0.01%					29	5	128.81	NCLSLT
NBB0512_6-25	25	6	12	51907.6	51907.6	0.01%					57	10	125.04	NCLSLT
NBB0612_6-25	25	6	12	51037.6	51037.6	0.00%					40	7	15.39	NCLSLT
NBB0712_6-25	25	6	12	52842.2	52842.2	0.01%					75	13	111.20	NCLSLT
NBB0812_6-25	25	6	12	51275.6	51275.6	0.00%					57	10	50.85	NCLSLT
NBB0912_6-25	25	6	12	53721.2	53721.2	0.01%					35	6	63.79	NCLSLT
NBB0018_6-25	25	6	18	76590.6	76590.6	-0.02%					90	12	426.01	NCLSLT
NBB0118_6-25	25	6	18	79518.8	79518.8	0.00%					52	7	158.28	NCLSLT
NBB0218_6-25	25	6	18	81783.5	81783.5	0.00%					44	6	85.32	NCLSLT
NBB0318_6-25	25	6	18	80022.3	80022.3	0.01%					68	9	537.41	NCLSLT
NBB0418_6-25	25	6	18	85065.5	85065.5	0.00%					38	5	240.21	NCLSLT
NBB0518_6-25	25	6	18	81134.1	81134.1	0.00%					38	5	136.74	NCLSLT
NBB0618_6-25	25	6	18	76384.6	76384.6	0.01%					52	7	37.61	NCLSLT
NBB0718_6-25	25	6	18	77902.8	77902.8	0.00%					76	10	282.96	NCLSLT
NBB0818_6-25	25	6	18	75247.2	75247.2	0.01%					60	8	178.69	NCLSLT
NBB0918_6-25	25	6	18	81476.8	81476.8	0.01%					60	8	124.78	NCLSLT
NBB006_6-50	50	6	6	50636.5	50636.5	0.00%					20	4	12.39	NCLSLT
NBB016_6-50	50	6	6	50711.5	50711.5	0.05%					10	2	14.32	NCLSLT
NBB026_6-50	50	6	6	52246.9	52246.9	0.02%					20	4	54.28	NCLSLT
NBB036_6-50	50	6	6	51745.7	51745.7	0.00%					15	3	10.73	NCLSLT
NBB046_6-50	50	6	6	54094.4	54094.4	0.03%					10	2	27.24	NCLSLT
NBB056_6-50	50	6	6	52838.4	52838.4	0.03%					15	3	24.20	NCLSLT
NBB066_6-50	50	6	6	52053.6	52053.6	0.01%					20	4	38.08	NCLSLT
NBB076_6-50	50	6	6	54031.6	54031.6	0.02%					10	2	5.56	NCLSLT
NBB086_6-50	50	6	6	50947.9	50947.9	0.00%					25	5	38.15	NCLSLT
NBB096_6-50	50	6	6	50718.5	50718.5	0.01%					15	3	13.32	NCLSLT
NBB0012_6-50	50	6	12	102544.9	102544.9	0.00%					40	7	67.09	NCLSLT
NBB0112_6-50	50	6	12	101600.2	101600.2	0.01%					34	6	68.46	NCLSLT
NBB0212_6-50	50	6	12	105225.7	105225.7	0.00%					40	7	200.41	NCLSLT
NBB0312_6-50	50	6	12	102661.2	102661.2	0.00%					51	9	104.52	NCLSLT
NBB0412_6-50	50	6	12	109858.7	109858.7	0.00%					46	8	180.27	NCLSLT
NBB0512_6-50	50	6	12	105508.9	105508.9	0.02%					57	10	151.41	NCLSLT
NBB0612_6-50	50	6	12	102197.4	102197.4	0.00%					52	9	212.56	NCLSLT
NBB0712_6-50	50	6	12	107655.1	107655.1	0.01%					40	7	103.32	NCLSLT
NBB0812_6-50	50	6	12	99997.7	99997.7	0.02%					80	14	121.98	NCLSLT
NBB0912_6-50	50	6	12	102424.2	102424.2	0.00%					46	8	109.03	NCLSLT
NBB0018_6-50	50	6	18	152967.2	152967.2	0.01%					38	5	171.70	NCLSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
NBB0118_6-50	50	6	18	151111.8	151111.8	0.00%					52	7	166.42	NCLSLT
NBB0218_6-50	50	6	18	154639.3	154639.3	-0.01%					98	13	505.49	NCLSLT
NBB0318_6-50	50	6	18	154349.1	154349.1	0.00%					38	5	105.82	NCLSLT
NBB0418_6-50	50	6	18	164992.5	164992.5	0.00%					74	10	375.87	NCLSLT
NBB0518_6-50	50	6	18	155549.1	155549.1	0.00%					60	8	279.15	NCLSLT
NBB0618_6-50	50	6	18	154455.0	154564.4	0.01%					85	12	635.48	NCLSLT
NBB0718_6-50	50	6	18	159214.2	159214.2	0.00%					60	8	264.94	NCLSLT
NBB0818_6-50	50	6	18	151165.3	151165.3	0.00%					90	12	215.93	NCLSLT
NBB0918_6-50	50	6	18	154285.2	154285.2	0.00%					38	5	120.07	NCLSLT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.74	TCHSHT
AAA006_2-6	6	2	6	14644.5	14644.5	3.47%					15	3	0.73	TCHSHT
AAA016_2-6	6	2	6	12283.2	12283.2	5.46%					10	2	0.80	TCHSHT
AAA026_2-6	6	2	6	15202.8	15202.8	1.62%					30	6	0.75	TCHSHT
AAA036_2-6	6	2	6	21940015117.5	21940015316.9	100.00%					10	2	0.43	TCHSHT
AAA046_2-6	6	2	6	17345.2	17345.2	0.00%					10	2	0.51	TCHSHT
AAA056_2-6	6	2	6	18337.5	18337.5	7.39%					10	2	0.51	TCHSHT
AAA066_2-6	6	2	6	16931.2	16931.2	0.83%					15	3	0.61	TCHSHT
AAA076_2-6	6	2	6	2400017492.4	2400017493.2	100.00%					10	2	0.44	TCHSHT
AAA086_2-6	6	2	6	13173.4	13173.4	0.60%					10	2	0.35	TCHSHT
AAA096_2-6	6	2	6	13475.9	13475.9	2.42%					20	4	0.59	TCHSHT
AAA0012_2-6	6	2	12	24646.1	24646.1	0.35%					80	14	3.81	TCHSHT
AAA0112_2-6	6	2	12	24252.3	24252.3	0.00%					52	9	5.36	TCHSHT
AAA0212_2-6	6	2	12	27472.1	27472.1	0.00%					29	5	2.20	TCHSHT
AAA0412_2-6	6	2	12	28964.1	28964.1	1.39%					69	12	7.50	TCHSHT
AAA0512_2-6	6	2	12	32629.4	32629.4	2.92%					46	8	5.07	TCHSHT
AAA0612_2-6	6	2	12	28845.3	28845.3	0.00%					29	5	2.17	TCHSHT
AAA0712_2-6	6	2	12	27771.2	27771.2	1.15%					75	13	5.31	TCHSHT
AAA0812_2-6	6	2	12	22547.3	22547.3	0.23%					35	6	1.88	TCHSHT
AAA0912_2-6	6	2	12	27831.3	27831.3	0.26%					63	11	5.14	TCHSHT
AAA0018_2-6	6	2	18	33961.9	33961.9	0.32%					74	10	12.01	TCHSHT
AAA0118_2-6	6	2	18	34195.8	34195.8	0.02%					52	7	9.30	TCHSHT
AAA0218_2-6	6	2	18	40189.8	40189.8	1.25%					52	7	5.83	TCHSHT
AAA0418_2-6	6	2	18	37979.5	37979.5	2.02%					54	7	14.36	TCHSHT
AAA0518_2-6	6	2	18	42968.4	42968.4	0.55%					106	14	12.31	TCHSHT
AAA0618_2-6	6	2	18	39895.0	39895.0	1.07%					68	9	6.17	TCHSHT
AAA0718_2-6	6	2	18	39999.7	39999.7	0.94%					52	7	9.07	TCHSHT
AAA0818_2-6	6	2	18	32261.8	32261.8	0.74%					60	8	4.73	TCHSHT
AAA0918_2-6	6	2	18	36528.2	36528.2	0.69%					90	12	12.37	TCHSHT
AAA006_2-12	12	2	6	22344.3	22344.3	0.21%					10	2	0.74	TCHSHT
AAA016_2-12	12	2	6	25835.3	25835.3	1.24%					15	3	1.20	TCHSHT
AAA026_2-12	12	2	6	27180.2	27180.2	0.94%					10	2	1.16	TCHSHT
AAA036_2-12	12	2	6	30163.0	30163.0	1.13%					15	3	1.52	TCHSHT
AAA046_2-12	12	2	6	26132.4	26132.4	0.80%					15	3	1.02	TCHSHT
AAA056_2-12	12	2	6	30284.3	30284.3	1.39%					10	2	1.31	TCHSHT
AAA066_2-12	12	2	6	26649.9	26649.9	1.76%					10	2	1.02	TCHSHT
AAA076_2-12	12	2	6	27066.4	27066.4	3.58%					10	2	0.65	TCHSHT
AAA086_2-12	12	2	6	24651.5	24651.5	0.28%					20	4	1.38	TCHSHT
AAA096_2-12	12	2	6	28361.3	28361.3	0.76%					25	5	1.59	TCHSHT
AAA0012_2-12	12	2	12	42234.3	42234.3	0.35%					39	7	9.59	TCHSHT
AAA0112_2-12	12	2	12	42476.2	42476.2	0.54%					40	7	7.51	TCHSHT
AAA0212_2-12	12	2	12	45267.9	45267.9	0.91%					40	7	7.66	TCHSHT
AAA0312_2-12	12	2	12	53913.6	53913.6	0.62%					81	14	17.63	TCHSHT
AAA0412_2-12	12	2	12	45666.4	45666.4	0.22%					58	10	4.92	TCHSHT
AAA0512_2-12	12	2	12	54068.7	54068.7	1.60%					40	7	12.08	TCHSHT
AAA0612_2-12	12	2	12	46722.5	46722.5	0.58%					51	9	9.45	TCHSHT
AAA0712_2-12	12	2	12	49621.1	49621.1	0.18%					69	12	9.11	TCHSHT
AAA0812_2-12	12	2	12	42561.0	42561.0	1.01%					46	8	6.66	TCHSHT
AAA0912_2-12	12	2	12	52254.9	52254.9	0.56%					64	11	13.25	TCHSHT
AAA0118_2-12	12	2	18	63269.6	63269.6	0.32%					38	5	17.21	TCHSHT
AAA0218_2-12	12	2	18	66855.0	66855.0	0.27%					68	9	31.24	TCHSHT
AAA0318_2-12	12	2	18	76645.5	76645.5	0.25%					60	8	27.30	TCHSHT
AAA0418_2-12	12	2	18	68457.0	68457.0	0.27%					84	11	29.34	TCHSHT
AAA0518_2-12	12	2	18	74998.1	74998.1	0.26%					54	7	28.03	TCHSHT
AAA0618_2-12	12	2	18	67822.0	67822.0	1.07%					106	14	34.35	TCHSHT
AAA0718_2-12	12	2	18	68309.4	68309.4	0.06%					74	10	10.69	TCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0818_2-12	12	2	18	66081.9	66081.9	0.62%					60	8	30.68	TCHSHT
AAA0918_2-12	12	2	18	74634.4	74634.4	0.45%					120	16	87.31	TCHSHT
AAA006_2-25	25	2	6	49702.0	49702.0	0.94%					10	2	2.53	TCHSHT
AAA016_2-25	25	2	6	50428.5	50428.5	0.95%					10	2	1.66	TCHSHT
AAA026_2-25	25	2	6	53905.9	53905.9	0.94%					15	3	3.56	TCHSHT
AAA036_2-25	25	2	6	55643.4	55643.4	1.40%					10	2	1.62	TCHSHT
AAA046_2-25	25	2	6	56247.0	56247.0	0.11%					10	2	1.50	TCHSHT
AAA056_2-25	25	2	6	59414.4	59414.4	1.04%					15	3	3.06	TCHSHT
AAA066_2-25	25	2	6	47786.3	47786.3	1.01%					10	2	1.31	TCHSHT
AAA076_2-25	25	2	6	53574.7	53574.7	0.50%					15	3	3.09	TCHSHT
AAA086_2-25	25	2	6	56941.6	56941.6	0.55%					15	3	2.69	TCHSHT
AAA096_2-25	25	2	6	63525.9	63525.9	1.42%					15	3	3.48	TCHSHT
AAA0012_2-25	25	2	12	90620.2	90620.2	0.22%					51	9	31.50	TCHSHT
AAA0112_2-25	25	2	12	95910.0	95910.0	0.10%					28	5	8.20	TCHSHT
AAA0212_2-25	25	2	12	93105.7	93105.7	0.05%					98	17	72.63	TCHSHT
AAA0312_2-25	25	2	12	97003.0	97003.0	0.29%					51	9	42.71	TCHSHT
AAA0412_2-25	25	2	12	96207.4	96207.4	0.33%					57	10	35.91	TCHSHT
AAA0512_2-25	25	2	12	109133.4	109133.4	0.30%					63	11	65.29	TCHSHT
AAA0612_2-25	25	2	12	92040.8	92040.8	0.02%					63	11	13.76	TCHSHT
AAA0712_2-25	25	2	12	97413.7	97413.7	0.36%					51	9	31.05	TCHSHT
AAA0812_2-25	25	2	12	101026.3	101026.3	0.14%					69	12	49.57	TCHSHT
AAA0912_2-25	25	2	12	106151.1	106151.1	0.09%					69	12	84.43	TCHSHT
AAA0018_2-25	25	2	18	130881.7	130881.7	0.22%					74	10	92.44	TCHSHT
AAA0118_2-25	25	2	18	134544.7	134544.7	0.08%					76	10	59.48	TCHSHT
AAA0218_2-25	25	2	18	132674.0	132674.0	-0.06%					60	8	95.66	TCHSHT
AAA0318_2-25	25	2	18	144913.2	144913.2	0.15%					82	11	59.58	TCHSHT
AAA0418_2-25	25	2	18	139451.9	139451.9	0.05%					54	7	74.54	TCHSHT
AAA0518_2-25	25	2	18	152430.7	152430.7	0.38%					68	9	139.42	TCHSHT
AAA0618_2-25	25	2	18	129555.9	129555.9	0.45%					46	6	54.02	TCHSHT
AAA0718_2-25	25	2	18	143769.6	143769.6	0.06%					62	8	99.08	TCHSHT
AAA0818_2-25	25	2	18	141787.4	141787.4	0.15%					68	9	117.71	TCHSHT
AAA0918_2-25	25	2	18	152820.7	152820.7	0.29%					106	14	191.98	TCHSHT
AAA006_2-50	50	2	6	97169.9	97169.9	0.10%					10	2	3.23	TCHSHT
AAA016_2-50	50	2	6	100598.0	100598.0	0.29%					10	2	2.70	TCHSHT
AAA026_2-50	50	2	6	98867.1	98867.1	0.28%					20	4	6.74	TCHSHT
AAA036_2-50	50	2	6	106336.6	106336.6	0.21%					15	3	7.42	TCHSHT
AAA046_2-50	50	2	6	112958.5	112958.5	0.25%					20	4	16.40	TCHSHT
AAA056_2-50	50	2	6	110274.0	110274.0	0.03%					10	2	7.62	TCHSHT
AAA066_2-50	50	2	6	99153.1	99153.1	0.16%					10	2	4.81	TCHSHT
AAA076_2-50	50	2	6	106548.1	106548.1	0.29%					10	2	7.16	TCHSHT
AAA086_2-50	50	2	6	102958.0	102958.0	0.07%					20	4	8.65	TCHSHT
AAA096_2-50	50	2	6	107963.7	107963.7	0.08%					15	3	3.65	TCHSHT
AAA0012_2-50	50	2	12	180005.3	180005.3	0.09%					40	7	40.37	TCHSHT
AAA0112_2-50	50	2	12	186776.5	186776.5	0.05%					51	9	46.10	TCHSHT
AAA0212_2-50	50	2	12	181184.7	181184.7	0.19%					57	10	71.81	TCHSHT
AAA0312_2-50	50	2	12	192713.6	192713.6	0.09%					46	8	44.49	TCHSHT
AAA0412_2-50	50	2	12	201226.4	201226.4	0.19%					40	7	116.73	TCHSHT
AAA0512_2-50	50	2	12	198025.8	198025.8	0.07%					69	12	83.49	TCHSHT
AAA0612_2-50	50	2	12	177392.1	177392.1	0.09%					52	9	44.21	TCHSHT
AAA0712_2-50	50	2	12	190603.6	190603.6	0.12%					75	13	180.15	TCHSHT
AAA0812_2-50	50	2	12	183302.8	183302.8	0.09%					34	6	61.86	TCHSHT
AAA0912_2-50	50	2	12	195315.8	195315.8	0.09%					86	15	202.22	TCHSHT
AAA0018_2-50	50	2	18	261981.8	261981.8	0.04%					30	4	36.09	TCHSHT
AAA0118_2-50	50	2	18	270368.6	270368.6	0.05%					30	4	73.88	TCHSHT
AAA0218_2-50	50	2	18	261222.5	261222.5	0.12%					76	10	204.26	TCHSHT
AAA0318_2-50	50	2	18	282381.9	282381.9	0.04%					68	9	93.30	TCHSHT
AAA0418_2-50	50	2	18	292907.2	292907.2	0.05%					114	15	440.94	TCHSHT
AAA0518_2-50	50	2	18	287808.3	287808.3	0.03%					68	9	129.94	TCHSHT
AAA0618_2-50	50	2	18	259622.1	259622.1	0.07%					60	8	78.35	TCHSHT
AAA0718_2-50	50	2	18	274261.6	274261.6	0.11%					52	7	197.92	TCHSHT
AAA0818_2-50	50	2	18	265782.3	265782.3	0.00%					60	8	94.84	TCHSHT
AAA0918_2-50	50	2	18	284068.5	284068.5	-0.01%					82	11	231.43	TCHSHT
AAA006_4-6	6	4	6	9638.8	9638.8	0.00%					15	3	0.82	TCHSHT
AAA016_4-6	6	4	6	12796.9	12796.9	4.19%					20	4	1.87	TCHSHT
AAA026_4-6	6	4	6	12068.0	12068.0	0.00%					20	4	1.20	TCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA036_4-6	6	4	6	12615.1	12615.1	0.00%					15	3	0.89	TCHSHT
AAA046_4-6	6	4	6	10966.8	10966.8	2.52%					15	3	2.24	TCHSHT
AAA056_4-6	6	4	6	16347.9	16347.9	5.88%					15	3	1.11	TCHSHT
AAA066_4-6	6	4	6	12432.1	12432.1	1.16%					20	4	1.18	TCHSHT
AAA076_4-6	6	4	6	14305.2	14305.2	3.77%					15	3	0.91	TCHSHT
AAA086_4-6	6	4	6	10059.2	10059.2	1.20%					20	4	0.79	TCHSHT
AAA096_4-6	6	4	6	15047.3	15047.3	1.84%					20	4	1.33	TCHSHT
AAA0012_4-6	6	4	12	17842.6	17842.6	0.10%					35	6	4.62	TCHSHT
AAA0112_4-6	6	4	12	25424.8	25424.8	0.93%					41	7	15.37	TCHSHT
AAA0212_4-6	6	4	12	23348.1	23348.1	1.27%					40	7	7.20	TCHSHT
AAA0312_4-6	6	4	12	25637.0	25637.0	0.32%					52	9	3.77	TCHSHT
AAA0412_4-6	6	4	12	23466.0	23466.0	0.00%					69	12	16.49	TCHSHT
AAA0512_4-6	6	4	12	30409.9	30409.9	0.51%					46	8	7.67	TCHSHT
AAA0612_4-6	6	4	12	21926.0	21926.0	1.65%					29	5	3.62	TCHSHT
AAA0712_4-6	6	4	12	24512.0	24512.0	0.24%					40	7	5.34	TCHSHT
AAA0812_4-6	6	4	12	21130.5	21130.5	0.00%					86	15	18.42	TCHSHT
AAA0912_4-6	6	4	12	26049.8	26049.8	0.21%					29	5	4.38	TCHSHT
AAA0018_4-6	6	4	18	27437.2	27437.2	0.23%					38	5	14.28	TCHSHT
AAA0118_4-6	6	4	18	33631.8	33631.8	0.93%					76	10	35.28	TCHSHT
AAA0218_4-6	6	4	18	33348.2	33348.2	0.52%					82	11	21.47	TCHSHT
AAA0318_4-6	6	4	18	38927.1	38927.1	0.00%					46	6	14.28	TCHSHT
AAA0418_4-6	6	4	18	35351.7	35351.7	1.28%					98	13	43.28	TCHSHT
AAA0518_4-6	6	4	18	43015.7	43015.7	0.51%					60	8	17.18	TCHSHT
AAA0618_4-6	6	4	18	33541.7	33541.7	0.62%					68	9	12.33	TCHSHT
AAA0718_4-6	6	4	18	37113.5	37113.5	0.51%					60	8	19.83	TCHSHT
AAA0818_4-6	6	4	18	28004.9	28004.9	0.25%					60	8	20.72	TCHSHT
AAA0918_4-6	6	4	18	38421.7	38421.7	0.45%					66	9	24.66	TCHSHT
AAA006_4-12	12	4	6	20488.7	20488.7	0.29%					20	4	2.68	TCHSHT
AAA016_4-12	12	4	6	23838.0	23838.0	0.33%					25	5	6.07	TCHSHT
AAA026_4-12	12	4	6	19040.6	19040.6	1.17%					20	4	1.86	TCHSHT
AAA036_4-12	12	4	6	21020.1	21020.1	1.42%					25	5	3.42	TCHSHT
AAA046_4-12	12	4	6	23054.3	23054.3	0.00%					20	4	3.06	TCHSHT
AAA056_4-12	12	4	6	24490.5	24490.5	1.31%					15	3	1.95	TCHSHT
AAA066_4-12	12	4	6	21551.8	21551.8	1.68%					20	4	3.10	TCHSHT
AAA076_4-12	12	4	6	22481.5	22481.5	4.60%					20	4	17.13	TCHSHT
AAA086_4-12	12	4	6	22840.2	22840.2	0.71%					15	3	1.89	TCHSHT
AAA096_4-12	12	4	6	22126.2	22126.2	0.00%					20	4	2.98	TCHSHT
AAA0012_4-12	12	4	12	36660.3	36660.3	0.22%					57	10	41.65	TCHSHT
AAA0112_4-12	12	4	12	42169.9	42169.9	1.08%					35	6	56.99	TCHSHT
AAA0212_4-12	12	4	12	37436.2	37436.2	0.14%					74	13	24.35	TCHSHT
AAA0312_4-12	12	4	12	41151.8	41151.8	0.66%					46	8	19.89	TCHSHT
AAA0412_4-12	12	4	12	42668.4	42668.4	0.37%					57	10	36.65	TCHSHT
AAA0512_4-12	12	4	12	46496.7	46496.7	0.90%					69	12	55.25	TCHSHT
AAA0612_4-12	12	4	12	40384.8	40384.8	0.91%					46	8	25.82	TCHSHT
AAA0712_4-12	12	4	12	43084.0	43084.0	0.46%					81	14	69.37	TCHSHT
AAA0812_4-12	12	4	12	41907.1	41907.1	0.20%					29	5	5.75	TCHSHT
AAA0912_4-12	12	4	12	45442.6	45442.6	0.99%					81	14	127.68	TCHSHT
AAA0018_4-12	12	4	18	54733.2	54733.2	0.31%					74	10	68.58	TCHSHT
AAA0118_4-12	12	4	18	61128.7	61128.7	0.13%					60	8	85.31	TCHSHT
AAA0218_4-12	12	4	18	53992.6	53992.6	0.35%					46	6	21.16	TCHSHT
AAA0318_4-12	12	4	18	62703.1	62703.1	0.27%					46	6	49.55	TCHSHT
AAA0418_4-12	12	4	18	63405.0	63405.0	0.17%					46	6	70.41	TCHSHT
AAA0518_4-12	12	4	18	66937.3	66937.3	-0.04%					68	9	68.97	TCHSHT
AAA0618_4-12	12	4	18	59535.7	59535.7	0.12%					60	8	27.75	TCHSHT
AAA0718_4-12	12	4	18	66251.0	66251.0	0.21%					106	14	192.59	TCHSHT
AAA0818_4-12	12	4	18	63662.8	63662.8	0.35%					82	11	57.81	TCHSHT
AAA0918_4-12	12	4	18	63832.6	63832.6	0.16%					54	7	46.73	TCHSHT
AAA006_4-25	25	4	6	37846.8	37846.8	0.34%					15	3	6.44	TCHSHT
AAA016_4-25	25	4	6	46446.7	46446.7	0.66%					20	4	10.20	TCHSHT
AAA026_4-25	25	4	6	43949.4	43949.4	1.03%					15	3	13.21	TCHSHT
AAA036_4-25	25	4	6	43623.8	43623.8	1.02%					15	3	9.87	TCHSHT
AAA046_4-25	25	4	6	44865.5	44865.5	1.46%					20	4	17.40	TCHSHT
AAA056_4-25	25	4	6	48279.7	48279.7	0.59%					35	7	27.36	TCHSHT
AAA066_4-25	25	4	6	38422.9	38422.9	0.27%					15	3	2.29	TCHSHT
AAA076_4-25	25	4	6	43882.2	43882.2	0.24%					15	3	14.10	TCHSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA086_4-25	25	4	6	41015.4	41015.4	1.41%					20	4	6.52	TCHSHT
AAA096_4-25	25	4	6	46686.0	46686.0	0.81%					20	4	20.91	TCHSHT
AAA0012_4-25	25	4	12	75542.6	75542.6	0.03%					58	10	63.15	TCHSHT
AAA0112_4-25	25	4	12	84322.7	84322.7	0.43%					86	15	227.41	TCHSHT
AAA0212_4-25	25	4	12	79911.1	79911.1	0.12%					63	11	205.66	TCHSHT
AAA0312_4-25	25	4	12	84003.2	84003.2	0.15%					80	14	149.96	TCHSHT
AAA0412_4-25	25	4	12	84415.9	84415.9	0.08%					75	13	117.85	TCHSHT
AAA0512_4-25	25	4	12	87683.7	87683.7	0.30%					63	11	104.74	TCHSHT
AAA0612_4-25	25	4	12	74411.4	74411.4	0.29%					63	11	44.40	TCHSHT
AAA0712_4-25	25	4	12	84335.8	84335.8	0.03%					58	10	80.70	TCHSHT
AAA0812_4-25	25	4	12	79064.0	79064.0	0.08%					75	13	134.84	TCHSHT
AAA0912_4-25	25	4	12	84979.3	84979.3	0.10%					74	13	49.95	TCHSHT
AAA0018_4-25	25	4	18	109802.0	109802.0	0.04%					82	11	170.40	TCHSHT
AAA0118_4-25	25	4	18	122456.7	122456.7	0.29%					68	9	260.37	TCHSHT
AAA0218_4-25	25	4	18	118692.8	118692.8	0.24%					82	11	259.79	TCHSHT
AAA0318_4-25	25	4	18	122699.9	122699.9	0.32%					54	7	104.83	TCHSHT
AAA0418_4-25	25	4	18	125191.2	125191.2	0.25%					38	5	80.43	TCHSHT
AAA0518_4-25	25	4	18	127065.5	127065.5	0.37%					38	5	86.73	TCHSHT
AAA0618_4-25	25	4	18	111101.5	111101.5	0.08%					68	9	78.26	TCHSHT
AAA0718_4-25	25	4	18	123356.4	123356.4	0.42%					76	10	183.65	TCHSHT
AAA0818_4-25	25	4	18	113205.5	113205.5	0.05%					52	7	123.13	TCHSHT
AAA0918_4-25	25	4	18	124954.4	124954.4	0.04%					74	10	93.62	TCHSHT
AAA006_4-50	50	4	6	81926.6	81926.6	0.29%					15	3	12.78	TCHSHT
AAA016_4-50	50	4	6	85024.5	85024.5	0.20%					20	4	16.44	TCHSHT
AAA026_4-50	50	4	6	87325.9	87325.9	0.20%					15	3	40.00	TCHSHT
AAA036_4-50	50	4	6	88273.2	88273.2	0.25%					15	3	7.30	TCHSHT
AAA046_4-50	50	4	6	94787.4	94787.4	0.33%					20	4	65.28	TCHSHT
AAA056_4-50	50	4	6	89787.2	89787.2	0.24%					15	3	23.34	TCHSHT
AAA066_4-50	50	4	6	80097.4	80097.4	0.26%					20	4	14.79	TCHSHT
AAA076_4-50	50	4	6	83905.6	83905.6	0.24%					20	4	19.65	TCHSHT
AAA086_4-50	50	4	6	84083.5	84083.5	0.26%					15	3	25.18	TCHSHT
AAA096_4-50	50	4	6	94895.2	94895.2	0.21%					15	3	23.98	TCHSHT
AAA0012_4-50	50	4	12	160246.4	160246.4	0.02%					63	11	170.31	TCHSHT
AAA0112_4-50	50	4	12	157675.7	157675.7	0.04%					80	14	114.32	TCHSHT
AAA0212_4-50	50	4	12	159449.2	159449.2	0.17%					40	7	113.57	TCHSHT
AAA0312_4-50	50	4	12	166905.3	166905.3	0.19%					52	9	102.87	TCHSHT
AAA0412_4-50	50	4	12	171475.9	171475.9	0.01%					41	7	105.23	TCHSHT
AAA0512_4-50	50	4	12	165694.5	165694.5	0.27%					63	11	181.30	TCHSHT
AAA0612_4-50	50	4	12	150581.1	150581.1	0.03%					75	13	102.92	TCHSHT
AAA0712_4-50	50	4	12	162670.6	162670.6	0.13%					52	9	146.53	TCHSHT
AAA0812_4-50	50	4	12	157574.0	157574.0	0.08%					69	12	132.23	TCHSHT
AAA0912_4-50	50	4	12	172828.1	172828.1	0.08%					46	8	62.27	TCHSHT
AAA0018_4-50	50	4	18	228814.1	228814.1	0.09%					122	16	304.11	TCHSHT
AAA0118_4-50	50	4	18	232949.5	232949.5	0.07%					104	14	278.92	TCHSHT
AAA0218_4-50	50	4	18	238906.7	238906.7	0.04%					76	10	292.86	TCHSHT
AAA0318_4-50	50	4	18	243651.8	243651.8	0.02%					74	10	167.51	TCHSHT
AAA0418_4-50	50	4	18	253826.0	253826.0	0.02%					112	15	348.24	TCHSHT
AAA0518_4-50	50	4	18	244852.2	244852.2	0.02%					68	9	155.38	TCHSHT
AAA0618_4-50	50	4	18	224268.1	224268.1	0.04%					74	10	96.57	TCHSHT
AAA0718_4-50	50	4	18	241791.1	241791.1	0.18%					52	7	234.49	TCHSHT
AAA0818_4-50	50	4	18	228312.9	228312.9	0.06%					76	10	164.29	TCHSHT
AAA0918_4-50	50	4	18	252085.6	252085.6	0.01%					112	15	243.09	TCHSHT
AAA006_6-6	6	6	6	9919.9	9919.9	3.20%					15	3	1.72	TCHSHT
AAA016_6-6	6	6	6	13297.8	13297.8	1.31%					35	7	7.18	TCHSHT
AAA026_6-6	6	6	6	12268.3	12268.3	0.45%					20	4	1.63	TCHSHT
AAA036_6-6	6	6	6	14313.8	14313.8	2.80%					20	4	3.10	TCHSHT
AAA046_6-6	6	6	6	14236.7	14236.7	1.28%					30	6	2.07	TCHSHT
AAA056_6-6	6	6	6	16729.9	16729.9	2.11%					20	4	2.22	TCHSHT
AAA066_6-6	6	6	6	11644.6	11644.6	0.55%					20	4	2.32	TCHSHT
AAA076_6-6	6	6	6	15368.9	15368.9	0.13%					25	5	2.75	TCHSHT
AAA086_6-6	6	6	6	14924.8	14924.8	2.27%					15	3	1.92	TCHSHT
AAA096_6-6	6	6	6	16021.7	16021.7	0.63%					30	6	4.99	TCHSHT
AAA0012_6-6	6	6	12	19936.0	19936.0	0.38%					68	12	14.13	TCHSHT
AAA0112_6-6	6	6	12	24287.2	24287.2	0.24%					64	11	12.36	TCHSHT
AAA0212_6-6	6	6	12	24115.7	24115.7	0.14%					46	8	9.62	TCHSHT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0312_6-6	6	6	12	27231.0	27231.0	0.00%					40	7	10.15	TCHSHT
AAA0412_6-6	6	6	12	26973.9	26973.9	0.35%					40	7	10.94	TCHSHT
AAA0512_6-6	6	6	12	28606.3	28606.3	0.12%					63	11	11.27	TCHSHT
AAA0612_6-6	6	6	12	22845.1	22845.1	0.00%					69	12	9.78	TCHSHT
AAA0712_6-6	6	6	12	28923.8	28923.8	0.73%					69	12	15.48	TCHSHT
AAA0812_6-6	6	6	12	26739.6	26739.6	0.57%					52	9	22.91	TCHSHT
AAA0912_6-6	6	6	12	30222.1	30222.1	0.59%					75	13	27.03	TCHSHT
AAA0018_6-6	6	6	18	29316.6	29316.6	0.37%					90	12	33.92	TCHSHT
AAA0218_6-6	6	6	18	32704.8	32704.8	0.15%					38	5	23.56	TCHSHT
AAA0318_6-6	6	6	18	38421.4	38421.4	0.20%					90	12	44.44	TCHSHT
AAA0418_6-6	6	6	18	39286.9	39286.9	0.42%					46	6	57.73	TCHSHT
AAA0518_6-6	6	6	18	44139.7	44139.7	0.16%					84	11	41.36	TCHSHT
AAA0618_6-6	6	6	18	33662.4	33662.4	0.19%					84	11	35.09	TCHSHT
AAA0718_6-6	6	6	18	42425.7	42425.7	0.66%					60	8	41.59	TCHSHT
AAA0818_6-6	6	6	18	42754.7	42754.7	0.21%					114	15	66.71	TCHSHT
AAA0918_6-6	6	6	18	46019.8	46019.8	0.00%					138	18	138.99	TCHSHT
AAA006_6-12	12	6	6	20746.2	20746.2	0.82%					15	3	4.47	TCHSHT
AAA016_6-12	12	6	6	21012.2	21012.2	0.78%					25	5	18.82	TCHSHT
AAA026_6-12	12	6	6	19961.4	19961.4	2.03%					20	4	19.13	TCHSHT
AAA036_6-12	12	6	6	20757.6	20757.6	1.05%					30	6	8.54	TCHSHT
AAA046_6-12	12	6	6	19289.8	19289.8	2.43%					20	4	7.38	TCHSHT
AAA056_6-12	12	6	6	20843.6	20843.6	3.03%					15	3	5.07	TCHSHT
AAA066_6-12	12	6	6	18359.8	18359.8	0.16%					20	4	2.71	TCHSHT
AAA076_6-12	12	6	6	24467.8	24467.8	2.03%					15	3	21.09	TCHSHT
AAA086_6-12	12	6	6	21423.6	21423.6	2.25%					20	4	13.26	TCHSHT
AAA096_6-12	12	6	6	24185.4	24185.4	0.85%					25	5	8.44	TCHSHT
AAA0012_6-12	12	6	12	38149.8	38149.8	0.32%					52	9	30.01	TCHSHT
AAA0112_6-12	12	6	12	40403.5	40403.5	0.76%					57	10	35.90	TCHSHT
AAA0212_6-12	12	6	12	38269.0	38269.0	0.39%					86	15	144.82	TCHSHT
AAA0312_6-12	12	6	12	40903.5	40903.5	0.83%					80	14	41.61	TCHSHT
AAA0412_6-12	12	6	12	36734.7	36734.7	0.83%					46	8	56.35	TCHSHT
AAA0512_6-12	12	6	12	42474.6	42474.6	0.73%					86	15	97.29	TCHSHT
AAA0612_6-12	12	6	12	34984.0	34984.0	0.51%					63	11	14.95	TCHSHT
AAA0712_6-12	12	6	12	48030.8	48030.8	0.95%					63	11	129.17	TCHSHT
AAA0812_6-12	12	6	12	39575.7	39575.7	0.39%					63	11	62.80	TCHSHT
AAA0912_6-12	12	6	12	44490.2	44490.2	0.75%					52	9	36.81	TCHSHT
AAA0018_6-12	12	6	18	57087.2	57087.2	-0.03%					74	10	75.81	TCHSHT
AAA0118_6-12	12	6	18	62222.9	62222.9	0.16%					82	11	72.13	TCHSHT
AAA0218_6-12	12	6	18	55957.7	55957.7	0.16%					68	9	64.21	TCHSHT
AAA0318_6-12	12	6	18	58229.6	58229.6	0.17%					82	11	103.92	TCHSHT
AAA0418_6-12	12	6	18	53030.5	53030.5	0.00%					68	9	53.98	TCHSHT
AAA0518_6-12	12	6	18	63168.8	63168.8	0.14%					68	9	62.70	TCHSHT
AAA0618_6-12	12	6	18	54928.0	54928.0	0.71%					74	10	53.99	TCHSHT
AAA0718_6-12	12	6	18	69221.9	69221.9	0.36%					126	17	240.34	TCHSHT
AAA0818_6-12	12	6	18	58816.4	58816.4	0.35%					84	11	160.78	TCHSHT
AAA0918_6-12	12	6	18	66113.8	66113.8	0.62%					66	9	72.67	TCHSHT
AAA006_6-25	25	6	6	39865.4	39865.4	0.26%					25	5	18.52	TCHSHT
AAA016_6-25	25	6	6	40197.4	40197.4	0.45%					20	4	28.85	TCHSHT
AAA026_6-25	25	6	6	42110.2	42110.2	0.63%					25	5	34.56	TCHSHT
AAA036_6-25	25	6	6	41391.4	41391.4	0.90%					30	6	30.96	TCHSHT
AAA046_6-25	25	6	6	43626.5	43626.5	0.40%					25	5	54.85	TCHSHT
AAA056_6-25	25	6	6	40827.6	40827.6	0.36%					20	4	43.16	TCHSHT
AAA066_6-25	25	6	6	39572.3	39572.3	0.61%					15	3	31.65	TCHSHT
AAA076_6-25	25	6	6	43334.7	43334.7	0.94%					25	5	20.50	TCHSHT
AAA086_6-25	25	6	6	41590.2	41590.2	1.15%					15	3	30.40	TCHSHT
AAA096_6-25	25	6	6	42873.8	42873.8	0.58%					20	4	18.58	TCHSHT
AAA0012_6-25	25	6	12	77895.2	77895.2	0.57%					46	8	110.65	TCHSHT
AAA0112_6-25	25	6	12	80101.6	80101.6	0.08%					69	12	153.41	TCHSHT
AAA0212_6-25	25	6	12	80785.9	80785.9	0.30%					64	11	143.59	TCHSHT
AAA0312_6-25	25	6	12	78506.1	78506.1	0.43%					52	9	128.45	TCHSHT
AAA0412_6-25	25	6	12	81588.0	81588.0	0.25%					58	10	139.27	TCHSHT
AAA0512_6-25	25	6	12	77340.5	77340.5	0.41%					46	8	94.28	TCHSHT
AAA0612_6-25	25	6	12	74899.4	74899.4	-0.02%					86	15	202.64	TCHSHT
AAA0712_6-25	25	6	12	78289.3	78289.3	0.08%					52	9	33.85	TCHSHT
AAA0812_6-25	25	6	12	76236.1	76236.1	0.60%					46	8	96.25	TCHSHT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAA0912_6-25	25	6	12	83280.5	83280.5	0.42%					57	10	120.39	TCHSHT
AAA0018_6-25	25	6	18	112313.9	112313.9	0.17%					76	10	205.98	TCHSHT
AAA0118_6-25	25	6	18	118365.3	118365.3	0.10%					70	9	193.79	TCHSHT
AAA0218_6-25	25	6	18	121009.5	121009.5	-0.06%					98	13	244.29	TCHSHT
AAA0318_6-25	25	6	18	118010.0	118010.0	0.39%					60	8	267.37	TCHSHT
AAA0418_6-25	25	6	18	121318.7	121318.7	-0.04%					90	12	262.23	TCHSHT
AAA0518_6-25	25	6	18	118494.2	118494.2	0.19%					60	8	143.62	TCHSHT
AAA0618_6-25	25	6	18	109743.7	109743.7	0.09%					54	7	130.41	TCHSHT
AAA0718_6-25	25	6	18	115659.4	115659.4	0.22%					82	11	110.92	TCHSHT
AAA0818_6-25	25	6	18	109807.9	109807.9	0.03%					76	10	191.84	TCHSHT
AAA0918_6-25	25	6	18	123511.2	123511.2	0.23%					68	9	209.21	TCHSHT
AAA006_6-50	50	6	6	75047.5	75047.5	0.25%					20	4	46.91	TCHSHT
AAA016_6-50	50	6	6	77526.5	77526.5	0.24%					15	3	42.82	TCHSHT
AAA026_6-50	50	6	6	80520.0	80520.0	0.31%					20	4	64.91	TCHSHT
AAA036_6-50	50	6	6	78631.0	78631.0	0.32%					15	3	27.09	TCHSHT
AAA046_6-50	50	6	6	80981.4	80981.4	-0.01%					20	4	62.54	TCHSHT
AAA056_6-50	50	6	6	81781.8	81781.8	0.21%					15	3	57.38	TCHSHT
AAA066_6-50	50	6	6	78360.5	78360.5	0.30%					15	3	41.18	TCHSHT
AAA076_6-50	50	6	6	81866.3	81866.3	0.13%					15	3	16.54	TCHSHT
AAA086_6-50	50	6	6	76860.5	76860.5	0.11%					25	5	22.67	TCHSHT
AAA096_6-50	50	6	6	78047.5	78047.5	0.20%					15	3	34.57	TCHSHT
AAA0012_6-50	50	6	12	145974.2	145974.2	0.19%					69	12	157.29	TCHSHT
AAA0112_6-50	50	6	12	148741.0	148741.0	-0.04%					58	10	142.20	TCHSHT
AAA0212_6-50	50	6	12	153428.9	153428.9	0.12%					63	11	208.33	TCHSHT
AAA0312_6-50	50	6	12	151975.9	151975.9	0.15%					51	9	137.08	TCHSHT
AAA0412_6-50	50	6	12	158722.8	158722.8	0.03%					57	10	177.87	TCHSHT
AAA0512_6-50	50	6	12	156476.8	156476.8	0.18%					80	14	254.53	TCHSHT
AAA0612_6-50	50	6	12	147619.9	147619.9	0.18%					86	15	388.69	TCHSHT
AAA0712_6-50	50	6	12	156739.1	156739.1	0.04%					46	8	130.58	TCHSHT
AAA0812_6-50	50	6	12	143523.1	143523.1	0.09%					69	12	161.86	TCHSHT
AAA0912_6-50	50	6	12	151073.0	151073.0	0.13%					92	16	220.76	TCHSHT
AAA0018_6-50	50	6	18	215970.5	215970.5	0.07%					76	10	241.67	TCHSHT
AAA0118_6-50	50	6	18	217879.3	217879.3	0.02%					106	14	251.50	TCHSHT
AAA0218_6-50	50	6	18	223794.2	223794.2	0.06%					68	9	298.96	TCHSHT
AAA0318_6-50	50	6	18	225595.0	225595.0	0.04%					104	14	349.90	TCHSHT
AAA0418_6-50	50	6	18	236153.1	236153.1	0.02%					74	10	313.23	TCHSHT
AAA0518_6-50	50	6	18	225527.3	225527.3	0.03%					60	8	230.71	TCHSHT
AAA0618_6-50	50	6	18	219137.1	219137.1	0.00%					82	11	527.44	TCHSHT
AAA0718_6-50	50	6	18	230200.3	230200.3	0.09%					76	10	247.43	TCHSHT
AAA0818_6-50	50	6	18	214666.7	214666.7	0.14%					52	7	137.86	TCHSHT
AAA0918_6-50	50	6	18	224132.5	224132.5	0.16%					90	12	275.48	TCHSHT
AAB006_2-6	6	2	6	14854.6	14854.6	1.85%					15	3	0.69	TCHSLT
AAB016_2-6	6	2	6	12161.7	12161.7	2.25%					15	3	0.83	TCHSLT
AAB026_2-6	6	2	6	16684.8	16684.8	7.25%					15	3	0.62	TCHSLT
AAB046_2-6	6	2	6	19155.2	19155.2	1.18%					15	3	0.82	TCHSLT
AAB056_2-6	6	2	6	17310.9	17310.9	0.00%					20	4	0.77	TCHSLT
AAB066_2-6	6	2	6	17565.7	17565.7	0.00%					15	3	0.60	TCHSLT
AAB076_2-6	6	2	6	18651.3	18651.3	3.59%					10	2	0.67	TCHSLT
AAB086_2-6	6	2	6	13673.4	13673.4	1.14%					10	2	0.47	TCHSLT
AAB096_2-6	6	2	6	14204.5	14204.5	0.09%					20	4	0.65	TCHSLT
AAB0012_2-6	6	2	12	25654.3	25654.3	0.29%					87	15	4.92	TCHSLT
AAB0112_2-6	6	2	12	25232.4	25232.4	1.41%					47	8	4.12	TCHSLT
AAB0212_2-6	6	2	12	28705.8	28705.8	1.61%					57	10	3.67	TCHSLT
AAB0412_2-6	6	2	12	32522.8	32522.8	0.00%					93	16	9.20	TCHSLT
AAB0512_2-6	6	2	12	34164.1	34164.1	2.79%					75	13	7.71	TCHSLT
AAB0612_2-6	6	2	12	30805.1	30805.1	0.75%					46	8	4.22	TCHSLT
AAB0712_2-6	6	2	12	28304.6	28304.6	1.22%					81	14	4.40	TCHSLT
AAB0812_2-6	6	2	12	22880.0	22880.0	0.20%					46	8	2.20	TCHSLT
AAB0912_2-6	6	2	12	29314.6	29314.6	1.01%					81	14	7.57	TCHSLT
AAB0018_2-6	6	2	18	34805.1	34805.1	0.41%					52	7	11.20	TCHSLT
AAB0118_2-6	6	2	18	35595.6	35595.6	0.30%					98	13	17.20	TCHSLT
AAB0218_2-6	6	2	18	40795.3	40795.3	0.14%					76	10	7.70	TCHSLT
AAB0418_2-6	6	2	18	39192.7	39192.7	0.23%					138	18	24.78	TCHSLT
AAB0518_2-6	6	2	18	44438.5	44438.5	1.11%					84	11	12.62	TCHSLT
AAB0618_2-6	6	2	18	41922.3	41922.3	1.72%					62	8	9.70	TCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0718_2-6	6	2	18	40740.1	40740.1	0.40%					92	12	13.52	TCHSLT
AAB0818_2-6	6	2	18	33156.3	33156.3	1.37%					82	11	8.63	TCHSLT
AAB0918_2-6	6	2	18	37376.7	37376.7	0.07%					76	10	10.59	TCHSLT
AAB006_2-12	12	2	6	23437.0	23437.0	1.47%					10	2	1.06	TCHSLT
AAB016_2-12	12	2	6	27010.1	27010.1	0.63%					15	3	1.25	TCHSLT
AAB026_2-12	12	2	6	28469.7	28469.7	1.14%					15	3	1.33	TCHSLT
AAB036_2-12	12	2	6	30704.9	30704.9	0.97%					15	3	1.05	TCHSLT
AAB046_2-12	12	2	6	27975.9	27975.9	4.88%					15	3	1.20	TCHSLT
AAB056_2-12	12	2	6	30755.7	30755.7	0.89%					15	3	1.10	TCHSLT
AAB066_2-12	12	2	6	27346.4	27346.4	0.01%					15	3	1.13	TCHSLT
AAB076_2-12	12	2	6	29074.3	29074.3	6.41%					15	3	1.26	TCHSLT
AAB086_2-12	12	2	6	26018.1	26018.1	1.25%					15	3	1.22	TCHSLT
AAB096_2-12	12	2	6	29223.1	29223.1	1.32%					25	5	1.83	TCHSLT
AAB0012_2-12	12	2	12	43625.8	43625.8	0.28%					63	11	15.01	TCHSLT
AAB0112_2-12	12	2	12	43156.5	43156.5	0.86%					51	9	8.87	TCHSLT
AAB0212_2-12	12	2	12	46400.7	46400.7	1.59%					75	13	19.07	TCHSLT
AAB0312_2-12	12	2	12	55107.5	55107.5	0.69%					69	12	19.37	TCHSLT
AAB0412_2-12	12	2	12	46144.7	46144.7	0.32%					35	6	4.63	TCHSLT
AAB0512_2-12	12	2	12	54848.8	54848.8	0.80%					63	11	22.87	TCHSLT
AAB0612_2-12	12	2	12	48362.8	48362.8	1.42%					34	6	5.85	TCHSLT
AAB0712_2-12	12	2	12	54134.5	54134.5	2.26%					109	19	45.03	TCHSLT
AAB0812_2-12	12	2	12	42939.3	42939.3	0.67%					69	12	14.42	TCHSLT
AAB0912_2-12	12	2	12	54018.3	54018.3	0.53%					52	9	15.14	TCHSLT
AAB0118_2-12	12	2	18	65123.5	65123.5	1.08%					60	8	33.45	TCHSLT
AAB0218_2-12	12	2	18	68117.3	68117.3	0.33%					62	8	51.92	TCHSLT
AAB0318_2-12	12	2	18	77897.2	77897.2	0.06%					76	10	44.62	TCHSLT
AAB0418_2-12	12	2	18	69012.0	69012.0	-0.27%					142	19	74.02	TCHSLT
AAB0518_2-12	12	2	18	76822.8	76822.8	0.56%					46	6	41.58	TCHSLT
AAB0618_2-12	12	2	18	68943.5	68943.5	0.26%					112	15	26.59	TCHSLT
AAB0718_2-12	12	2	18	69411.7	69411.7	0.00%					68	9	10.61	TCHSLT
AAB0818_2-12	12	2	18	67313.1	67313.1	0.35%					128	17	64.89	TCHSLT
AAB0918_2-12	12	2	18	76901.7	76901.7	1.21%					106	14	107.32	TCHSLT
AAB006_2-25	25	2	6	50829.5	50829.5	0.72%					15	3	2.85	TCHSLT
AAB016_2-25	25	2	6	50950.4	50950.4	0.27%					10	2	1.40	TCHSLT
AAB026_2-25	25	2	6	56288.6	56288.6	0.88%					15	3	2.97	TCHSLT
AAB036_2-25	25	2	6	56651.0	56651.0	1.07%					10	2	2.10	TCHSLT
AAB046_2-25	25	2	6	58505.0	58505.0	0.32%					10	2	1.99	TCHSLT
AAB056_2-25	25	2	6	60499.1	60499.1	0.52%					25	5	4.32	TCHSLT
AAB066_2-25	25	2	6	48465.9	48465.9	0.57%					20	4	3.11	TCHSLT
AAB076_2-25	25	2	6	54759.1	54759.1	0.46%					15	3	2.35	TCHSLT
AAB086_2-25	25	2	6	58942.0	58942.0	0.97%					20	4	5.30	TCHSLT
AAB096_2-25	25	2	6	65822.5	65822.5	1.61%					30	6	8.75	TCHSLT
AAB0012_2-25	25	2	12	93197.1	93197.1	1.16%					57	10	53.79	TCHSLT
AAB0112_2-25	25	2	12	97323.6	97323.6	0.23%					80	14	38.08	TCHSLT
AAB0212_2-25	25	2	12	95516.5	95516.5	0.43%					98	17	107.78	TCHSLT
AAB0312_2-25	25	2	12	100127.3	100127.3	1.52%					47	8	44.69	TCHSLT
AAB0412_2-25	25	2	12	98564.8	98564.8	0.15%					74	13	70.00	TCHSLT
AAB0512_2-25	25	2	12	111341.9	111341.9	0.37%					46	8	43.60	TCHSLT
AAB0612_2-25	25	2	12	94240.0	94240.0	0.61%					75	13	66.49	TCHSLT
AAB0712_2-25	25	2	12	98725.2	98725.2	0.65%					63	11	82.46	TCHSLT
AAB0812_2-25	25	2	12	102866.3	102866.3	0.13%					69	12	80.45	TCHSLT
AAB0912_2-25	25	2	12	108560.9	108560.9	0.19%					52	9	99.38	TCHSLT
AAB0018_2-25	25	2	18	132323.8	132323.8	0.01%					52	7	100.46	TCHSLT
AAB0118_2-25	25	2	18	135710.6	135710.6	0.01%					142	19	113.77	TCHSLT
AAB0218_2-25	25	2	18	134558.8	134558.8	0.16%					90	12	193.90	TCHSLT
AAB0318_2-25	25	2	18	147323.6	147323.6	0.11%					106	14	123.71	TCHSLT
AAB0418_2-25	25	2	18	141131.6	141131.6	0.01%					60	8	77.33	TCHSLT
AAB0518_2-25	25	2	18	154545.0	154545.0	0.09%					60	8	145.75	TCHSLT
AAB0618_2-25	25	2	18	130815.3	130815.3	0.12%					82	11	67.75	TCHSLT
AAB0718_2-25	25	2	18	145974.3	145974.3	0.06%					98	13	242.75	TCHSLT
AAB0818_2-25	25	2	18	143449.0	143449.0	0.22%					68	9	116.33	TCHSLT
AAB0918_2-25	25	2	18	155993.5	155993.5	0.16%					76	10	197.22	TCHSLT
AAB006_2-50	50	2	6	99451.1	99451.1	0.23%					25	5	8.79	TCHSLT
AAB016_2-50	50	2	6	102260.9	102260.9	0.20%					10	2	3.26	TCHSLT
AAB026_2-50	50	2	6	101616.8	101616.8	0.12%					15	3	4.37	TCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB036_2-50	50	2	6	109040.9	109040.9	0.36%					10	2	4.90	TCHSLT
AAB046_2-50	50	2	6	116352.0	116352.0	0.13%					10	2	9.90	TCHSLT
AAB056_2-50	50	2	6	114651.9	114651.9	0.55%					15	3	14.40	TCHSLT
AAB066_2-50	50	2	6	102289.0	102289.0	0.33%					20	4	7.12	TCHSLT
AAB076_2-50	50	2	6	110751.8	110751.8	0.56%					20	4	10.27	TCHSLT
AAB086_2-50	50	2	6	104843.5	104843.5	0.13%					15	3	4.44	TCHSLT
AAB096_2-50	50	2	6	111289.6	111289.6	0.20%					15	3	6.49	TCHSLT
AAB0012_2-50	50	2	12	183035.8	183035.8	0.21%					85	15	168.17	TCHSLT
AAB0112_2-50	50	2	12	188879.8	188879.8	0.09%					86	15	138.71	TCHSLT
AAB0212_2-50	50	2	12	185382.5	185382.5	0.23%					80	14	194.49	TCHSLT
AAB0312_2-50	50	2	12	195243.2	195243.2	0.24%					57	10	95.63	TCHSLT
AAB0412_2-50	50	2	12	206398.5	206398.5	0.11%					40	7	126.27	TCHSLT
AAB0512_2-50	50	2	12	202689.8	202689.8	0.29%					74	13	177.99	TCHSLT
AAB0612_2-50	50	2	12	179921.2	179921.2	0.16%					69	12	53.24	TCHSLT
AAB0712_2-50	50	2	12	196752.3	196752.3	0.10%					40	7	114.52	TCHSLT
AAB0812_2-50	50	2	12	186060.1	186060.1	0.14%					81	14	130.29	TCHSLT
AAB0912_2-50	50	2	12	199811.0	199811.0	0.12%					63	11	154.76	TCHSLT
AAB0018_2-50	50	2	18	264219.2	264219.2	0.04%					134	18	181.20	TCHSLT
AAB0118_2-50	50	2	18	272536.5	272536.5	0.02%					82	11	197.16	TCHSLT
AAB0218_2-50	50	2	18	264875.2	264875.2	0.03%					38	5	103.67	TCHSLT
AAB0318_2-50	50	2	18	285516.5	285516.5	0.08%					104	14	207.10	TCHSLT
AAB0418_2-50	50	2	18	301104.1	301104.1	0.27%					60	8	355.79	TCHSLT
AAB0518_2-50	50	2	18	292282.5	292282.5	0.09%					106	14	285.78	TCHSLT
AAB0618_2-50	50	2	18	262417.1	262417.1	0.08%					68	9	173.08	TCHSLT
AAB0718_2-50	50	2	18	279408.1	279408.1	-0.01%					92	12	356.82	TCHSLT
AAB0818_2-50	50	2	18	268113.1	268113.1	0.04%					90	12	184.60	TCHSLT
AAB0918_2-50	50	2	18	290315.4	290315.4	0.11%					128	17	536.54	TCHSLT
AAB006_4-6	6	4	6	10054.8	10054.8	1.14%					20	4	0.86	TCHSLT
AAB016_4-6	6	4	6	14117.1	14117.1	3.45%					45	9	5.04	TCHSLT
AAB026_4-6	6	4	6	12910.9	12910.9	0.08%					20	4	1.48	TCHSLT
AAB036_4-6	6	4	6	14192.1	14192.1	2.41%					25	5	1.64	TCHSLT
AAB046_4-6	6	4	6	11685.6	11685.6	1.85%					15	3	2.99	TCHSLT
AAB056_4-6	6	4	6	16374.3	16374.3	0.00%					20	4	1.44	TCHSLT
AAB066_4-6	6	4	6	13232.9	13232.9	3.29%					15	3	1.25	TCHSLT
AAB076_4-6	6	4	6	14628.8	14628.8	0.00%					25	5	1.34	TCHSLT
AAB086_4-6	6	4	6	11424.1	11424.1	7.39%					15	3	0.87	TCHSLT
AAB096_4-6	6	4	6	15320.5	15320.5	1.09%					20	4	1.03	TCHSLT
AAB0012_4-6	6	4	12	18525.0	18525.0	0.48%					46	8	6.88	TCHSLT
AAB0112_4-6	6	4	12	26904.2	26904.2	0.33%					58	10	16.23	TCHSLT
AAB0212_4-6	6	4	12	24766.6	24766.6	0.30%					75	13	17.03	TCHSLT
AAB0312_4-6	6	4	12	27590.9	27590.9	0.70%					63	11	6.68	TCHSLT
AAB0412_4-6	6	4	12	26094.6	26094.6	0.93%					81	14	32.19	TCHSLT
AAB0512_4-6	6	4	12	31794.6	31794.6	0.00%					35	6	5.92	TCHSLT
AAB0612_4-6	6	4	12	23052.0	23052.0	1.35%					46	8	4.92	TCHSLT
AAB0712_4-6	6	4	12	25966.7	25966.7	1.69%					35	6	5.38	TCHSLT
AAB0812_4-6	6	4	12	23472.5	23472.5	1.19%					63	11	8.47	TCHSLT
AAB0912_4-6	6	4	12	27497.3	27497.3	0.53%					80	14	7.11	TCHSLT
AAB0018_4-6	6	4	18	28384.8	28384.8	0.02%					98	13	21.41	TCHSLT
AAB0118_4-6	6	4	18	35957.8	35957.8	0.14%					68	9	43.46	TCHSLT
AAB0218_4-6	6	4	18	35757.4	35757.4	0.58%					98	13	45.73	TCHSLT
AAB0318_4-6	6	4	18	41532.3	41532.3	0.36%					76	10	36.83	TCHSLT
AAB0418_4-6	6	4	18	37291.9	37291.9	0.15%					104	14	70.49	TCHSLT
AAB0518_4-6	6	4	18	44932.6	44932.6	0.08%					46	6	19.80	TCHSLT
AAB0618_4-6	6	4	18	36396.6	36396.6	0.51%					52	7	24.17	TCHSLT
AAB0718_4-6	6	4	18	38903.6	38903.6	0.18%					82	11	25.51	TCHSLT
AAB0818_4-6	6	4	18	29481.6	29481.6	1.18%					60	8	25.59	TCHSLT
AAB0918_4-6	6	4	18	39413.1	39413.1	0.00%					74	10	23.35	TCHSLT
AAB006_4-12	12	4	6	21186.6	21186.6	0.33%					20	4	2.59	TCHSLT
AAB016_4-12	12	4	6	25675.6	25675.6	2.95%					15	3	7.36	TCHSLT
AAB026_4-12	12	4	6	19327.8	19327.8	0.12%					15	3	1.69	TCHSLT
AAB036_4-12	12	4	6	22614.6	22614.6	3.92%					25	5	9.29	TCHSLT
AAB046_4-12	12	4	6	24323.1	24323.1	1.40%					20	4	4.34	TCHSLT
AAB056_4-12	12	4	6	25752.1	25752.1	1.29%					20	4	2.82	TCHSLT
AAB066_4-12	12	4	6	22809.4	22809.4	3.05%					25	5	3.49	TCHSLT
AAB076_4-12	12	4	6	23886.4	23886.4	5.19%					20	4	21.68	TCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB086_4-12	12	4	6	23513.0	23513.0	0.70%					20	4	3.29	TCHSLT
AAB096_4-12	12	4	6	23843.4	23843.4	1.46%					40	8	23.24	TCHSLT
AAB0012_4-12	12	4	12	37430.8	37430.8	0.00%					69	12	36.80	TCHSLT
AAB0112_4-12	12	4	12	44151.9	44151.9	0.35%					69	12	132.79	TCHSLT
AAB0212_4-12	12	4	12	38132.0	38132.0	0.17%					45	8	19.39	TCHSLT
AAB0312_4-12	12	4	12	42529.0	42529.0	-0.01%					69	12	29.30	TCHSLT
AAB0412_4-12	12	4	12	43925.1	43925.1	0.33%					52	9	27.80	TCHSLT
AAB0512_4-12	12	4	12	48393.8	48393.8	0.94%					52	9	41.91	TCHSLT
AAB0612_4-12	12	4	12	41652.7	41652.7	0.82%					70	12	35.24	TCHSLT
AAB0712_4-12	12	4	12	45904.7	45904.7	-0.12%					87	15	104.70	TCHSLT
AAB0812_4-12	12	4	12	42804.0	42804.0	0.05%					46	8	14.03	TCHSLT
AAB0912_4-12	12	4	12	46933.8	46933.8	0.48%					46	8	59.85	TCHSLT
AAB0018_4-12	12	4	18	55855.1	55855.1	0.07%					68	9	73.11	TCHSLT
AAB0118_4-12	12	4	18	63095.9	63095.9	0.09%					84	11	152.43	TCHSLT
AAB0218_4-12	12	4	18	54781.2	54781.2	0.14%					52	7	29.87	TCHSLT
AAB0318_4-12	12	4	18	65163.1	65163.1	0.38%					76	10	140.56	TCHSLT
AAB0418_4-12	12	4	18	65698.1	65698.1	0.46%					60	8	115.90	TCHSLT
AAB0518_4-12	12	4	18	69511.4	69511.4	0.48%					68	9	90.77	TCHSLT
AAB0618_4-12	12	4	18	61487.0	61487.0	0.23%					38	5	43.70	TCHSLT
AAB0718_4-12	12	4	18	71347.8	71347.8	2.23%					68	9	190.33	TCHSLT
AAB0818_4-12	12	4	18	64747.9	64747.9	0.16%					68	9	61.90	TCHSLT
AAB0918_4-12	12	4	18	66243.2	66243.2	0.94%					54	7	97.12	TCHSLT
AAB006_4-25	25	4	6	39052.7	39052.7	0.27%					25	5	23.74	TCHSLT
AAB016_4-25	25	4	6	48059.4	48059.4	0.77%					20	4	22.69	TCHSLT
AAB026_4-25	25	4	6	45842.1	45842.1	0.73%					20	4	25.69	TCHSLT
AAB036_4-25	25	4	6	45695.4	45695.4	1.18%					20	4	14.84	TCHSLT
AAB046_4-25	25	4	6	46147.6	46147.6	0.69%					15	3	19.03	TCHSLT
AAB056_4-25	25	4	6	50169.2	50169.2	0.48%					20	4	27.09	TCHSLT
AAB066_4-25	25	4	6	39565.7	39565.7	0.55%					15	3	8.02	TCHSLT
AAB076_4-25	25	4	6	45670.8	45670.8	0.49%					25	5	22.54	TCHSLT
AAB086_4-25	25	4	6	41841.1	41841.1	0.32%					30	6	20.27	TCHSLT
AAB096_4-25	25	4	6	47515.8	47515.8	0.33%					15	3	5.13	TCHSLT
AAB0012_4-25	25	4	12	77160.7	77160.7	0.05%					75	13	149.78	TCHSLT
AAB0112_4-25	25	4	12	86733.7	86733.7	0.57%					52	9	191.13	TCHSLT
AAB0212_4-25	25	4	12	82757.7	82757.7	0.19%					52	9	178.32	TCHSLT
AAB0312_4-25	25	4	12	85900.6	85900.6	0.87%					63	11	169.03	TCHSLT
AAB0412_4-25	25	4	12	86778.5	86778.5	0.43%					98	17	239.15	TCHSLT
AAB0512_4-25	25	4	12	90354.2	90354.2	0.46%					57	10	126.91	TCHSLT
AAB0612_4-25	25	4	12	75921.9	75921.9	0.20%					46	8	67.61	TCHSLT
AAB0712_4-25	25	4	12	86137.1	86137.1	0.36%					52	9	111.92	TCHSLT
AAB0812_4-25	25	4	12	80863.8	80863.8	0.11%					80	14	161.17	TCHSLT
AAB0912_4-25	25	4	12	86462.8	86462.8	0.42%					68	12	124.73	TCHSLT
AAB0018_4-25	25	4	18	111322.6	111322.6	-0.03%					98	13	253.00	TCHSLT
AAB0118_4-25	25	4	18	125199.1	125199.1	0.13%					38	5	153.66	TCHSLT
AAB0218_4-25	25	4	18	121136.3	121136.3	-0.07%					119	16	624.55	TCHSLT
AAB0318_4-25	25	4	18	125045.1	125045.1	0.29%					98	13	314.86	TCHSLT
AAB0418_4-25	25	4	18	127365.3	127365.3	0.32%					46	6	150.88	TCHSLT
AAB0518_4-25	25	4	18	129725.3	129725.3	0.32%					84	11	246.80	TCHSLT
AAB0618_4-25	25	4	18	112324.4	112324.4	0.04%					38	5	79.18	TCHSLT
AAB0718_4-25	25	4	18	125204.1	125204.1	0.22%					60	8	217.07	TCHSLT
AAB0818_4-25	25	4	18	114934.5	114934.5	0.06%					74	10	234.87	TCHSLT
AAB0918_4-25	25	4	18	126860.3	126860.3	0.03%					90	12	163.83	TCHSLT
AAB006_4-50	50	4	6	84099.1	84099.1	0.50%					20	4	27.01	TCHSLT
AAB016_4-50	50	4	6	87421.0	87421.0	-0.02%					20	4	34.00	TCHSLT
AAB026_4-50	50	4	6	89310.1	89310.1	0.07%					15	3	24.05	TCHSLT
AAB036_4-50	50	4	6	90467.5	90467.5	0.49%					20	4	27.17	TCHSLT
AAB046_4-50	50	4	6	98196.2	98196.2	0.48%					15	3	32.40	TCHSLT
AAB056_4-50	50	4	6	92676.1	92676.1	0.45%					15	3	20.26	TCHSLT
AAB066_4-50	50	4	6	81576.3	81576.3	0.26%					25	5	20.21	TCHSLT
AAB076_4-50	50	4	6	85946.0	85946.0	0.19%					25	5	36.72	TCHSLT
AAB086_4-50	50	4	6	86204.9	86204.9	0.31%					15	3	27.96	TCHSLT
AAB096_4-50	50	4	6	96769.3	96769.3	0.34%					15	3	38.33	TCHSLT
AAB0012_4-50	50	4	12	163269.4	163269.4	0.17%					80	14	311.20	TCHSLT
AAB0112_4-50	50	4	12	159761.5	159761.5	0.03%					64	11	190.35	TCHSLT
AAB0212_4-50	50	4	12	161792.6	161792.6	0.08%					63	11	246.52	TCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0312_4-50	50	4	12	169569.9	169569.9	0.19%					75	13	302.91	TCHSLT
AAB0412_4-50	50	4	12	175873.7	175873.7	0.30%					69	12	313.29	TCHSLT
AAB0512_4-50	50	4	12	168993.3	168993.3	0.18%					81	14	304.39	TCHSLT
AAB0612_4-50	50	4	12	152142.0	152142.0	0.09%					63	11	118.05	TCHSLT
AAB0712_4-50	50	4	12	165739.3	165739.3	0.05%					92	16	339.95	TCHSLT
AAB0812_4-50	50	4	12	160904.2	160904.2	0.48%					46	8	184.43	TCHSLT
AAB0912_4-50	50	4	12	174461.5	174461.5	0.02%					51	9	117.27	TCHSLT
AAB0018_4-50	50	4	18	231963.6	231963.6	0.12%					62	8	268.13	TCHSLT
AAB0118_4-50	50	4	18	235176.2	235176.2	-0.01%					54	7	254.31	TCHSLT
AAB0218_4-50	50	4	18	242950.3	242950.3	0.01%					82	11	494.61	TCHSLT
AAB0318_4-50	50	4	18	246920.8	246920.8	0.00%					90	12	393.78	TCHSLT
AAB0418_4-50	50	4	18	257942.4	257942.4	0.17%					68	9	355.30	TCHSLT
AAB0518_4-50	50	4	18	248238.8	248238.8	-0.10%					46	6	202.86	TCHSLT
AAB0618_4-50	50	4	18	225865.8	225865.8	0.01%					114	15	249.26	TCHSLT
AAB0718_4-50	50	4	18	245762.6	245762.6	-0.04%					82	11	429.60	TCHSLT
AAB0818_4-50	50	4	18	231075.0	231126.2	0.20%					162	22	630.76	TCHSLT
AAB0918_4-50	50	4	18	254328.3	254328.3	0.08%					74	10	257.03	TCHSLT
AAB006_6-6	6	6	6	10456.7	10456.7	1.59%					20	4	2.63	TCHSLT
AAB026_6-6	6	6	6	13723.5	13723.5	2.24%					25	5	2.58	TCHSLT
AAB036_6-6	6	6	6	15103.7	15103.7	1.54%					30	6	3.13	TCHSLT
AAB046_6-6	6	6	6	15161.3	15161.3	2.65%					25	5	2.44	TCHSLT
AAB056_6-6	6	6	6	18511.4	18511.4	2.32%					20	4	2.62	TCHSLT
AAB066_6-6	6	6	6	12642.8	12642.8	2.11%					25	5	4.19	TCHSLT
AAB076_6-6	6	6	6	16788.3	16788.3	0.99%					30	6	2.87	TCHSLT
AAB086_6-6	6	6	6	16616.2	16616.2	1.79%					20	4	3.07	TCHSLT
AAB096_6-6	6	6	6	18170.3	18170.3	1.27%					35	7	8.56	TCHSLT
AAB0012_6-6	6	6	12	21403.7	21403.7	0.84%					68	12	16.85	TCHSLT
AAB0212_6-6	6	6	12	26103.3	26103.3	0.00%					46	8	12.82	TCHSLT
AAB0312_6-6	6	6	12	29253.2	29253.2	0.81%					46	8	13.89	TCHSLT
AAB0412_6-6	6	6	12	29321.3	29321.3	0.45%					46	8	13.42	TCHSLT
AAB0512_6-6	6	6	12	31906.3	31906.3	1.01%					63	11	23.15	TCHSLT
AAB0612_6-6	6	6	12	25722.0	25722.0	0.55%					59	10	24.23	TCHSLT
AAB0712_6-6	6	6	12	30797.0	30797.0	0.52%					47	8	20.09	TCHSLT
AAB0812_6-6	6	6	12	30311.4	30311.4	1.14%					58	10	26.27	TCHSLT
AAB0912_6-6	6	6	12	34454.5	34454.5	1.50%					87	15	33.07	TCHSLT
AAB0018_6-6	6	6	18	31292.7	31292.7	0.29%					84	11	59.02	TCHSLT
AAB0218_6-6	6	6	18	35129.2	35129.2	0.00%					76	10	42.85	TCHSLT
AAB0318_6-6	6	6	18	41115.6	41115.6	0.13%					106	14	46.25	TCHSLT
AAB0418_6-6	6	6	18	43087.9	43087.9	0.31%					76	10	100.33	TCHSLT
AAB0518_6-6	6	6	18	48307.9	48307.9	0.00%					76	10	63.80	TCHSLT
AAB0618_6-6	6	6	18	36287.2	36287.2	0.83%					122	16	48.55	TCHSLT
AAB0718_6-6	6	6	18	45413.0	45413.0	0.21%					76	10	41.65	TCHSLT
AAB0818_6-6	6	6	18	47475.0	47475.0	0.26%					94	12	97.18	TCHSLT
AAB0918_6-6	6	6	18	51377.9	51377.9	0.36%					114	15	109.61	TCHSLT
AAB006_6-12	12	6	6	21619.8	21619.8	1.80%					25	5	9.05	TCHSLT
AAB016_6-12	12	6	6	22360.7	22360.7	1.21%					25	5	12.40	TCHSLT
AAB026_6-12	12	6	6	21132.2	21132.2	0.34%					25	5	15.44	TCHSLT
AAB036_6-12	12	6	6	21961.5	21961.5	1.46%					20	4	5.09	TCHSLT
AAB046_6-12	12	6	6	20172.4	20172.4	2.45%					20	4	14.62	TCHSLT
AAB056_6-12	12	6	6	21916.6	21916.6	2.68%					10	2	4.10	TCHSLT
AAB066_6-12	12	6	6	19216.1	19216.1	1.85%					15	3	3.05	TCHSLT
AAB076_6-12	12	6	6	25945.2	25945.2	2.62%					15	3	7.90	TCHSLT
AAB086_6-12	12	6	6	22616.8	22616.8	2.40%					25	5	17.35	TCHSLT
AAB096_6-12	12	6	6	25436.0	25436.0	0.48%					25	5	12.57	TCHSLT
AAB0012_6-12	12	6	12	39579.7	39579.7	0.84%					75	13	55.83	TCHSLT
AAB0112_6-12	12	6	12	42000.6	42000.6	0.68%					58	10	47.07	TCHSLT
AAB0212_6-12	12	6	12	40680.6	40680.6	0.62%					75	13	95.91	TCHSLT
AAB0312_6-12	12	6	12	43267.9	43267.9	0.42%					63	11	60.74	TCHSLT
AAB0412_6-12	12	6	12	38059.5	38059.5	0.02%					69	12	81.44	TCHSLT
AAB0512_6-12	12	6	12	44209.6	44209.6	0.30%					74	13	50.23	TCHSLT
AAB0612_6-12	12	6	12	36449.8	36449.8	1.13%					63	11	34.38	TCHSLT
AAB0712_6-12	12	6	12	51130.8	51130.8	0.23%					103	18	177.73	TCHSLT
AAB0812_6-12	12	6	12	42701.5	42701.5	0.90%					64	11	91.91	TCHSLT
AAB0912_6-12	12	6	12	46232.6	46232.6	0.81%					86	15	120.15	TCHSLT
AAB0018_6-12	12	6	18	59295.9	59295.9	0.14%					76	10	132.09	TCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0118_6-12	12	6	18	64515.5	64515.5	0.44%					98	13	212.86	TCHSLT
AAB0218_6-12	12	6	18	59166.6	59166.6	0.01%					62	8	139.32	TCHSLT
AAB0318_6-12	12	6	18	60805.5	60805.5	0.17%					84	11	169.44	TCHSLT
AAB0418_6-12	12	6	18	54802.6	54802.6	0.42%					112	15	169.88	TCHSLT
AAB0518_6-12	12	6	18	66851.9	66851.9	0.59%					82	11	132.91	TCHSLT
AAB0618_6-12	12	6	18	56901.0	56901.0	0.53%					60	8	53.91	TCHSLT
AAB0718_6-12	12	6	18	73493.5	73493.5	0.25%					62	8	193.51	TCHSLT
AAB0818_6-12	12	6	18	62113.1	62113.1	0.32%					90	12	187.20	TCHSLT
AAB0918_6-12	12	6	18	68123.4	68123.4	0.50%					52	7	77.60	TCHSLT
AAB006_6-25	25	6	6	42329.1	42329.1	1.07%					15	3	37.11	TCHSLT
AAB016_6-25	25	6	6	41623.1	41623.1	0.61%					15	3	27.93	TCHSLT
AAB026_6-25	25	6	6	44012.5	44012.5	1.12%					35	7	82.56	TCHSLT
AAB036_6-25	25	6	6	43196.7	43196.7	1.60%					25	5	35.88	TCHSLT
AAB046_6-25	25	6	6	45806.3	45806.3	0.96%					30	6	80.50	TCHSLT
AAB056_6-25	25	6	6	42512.1	42512.1	1.34%					20	4	44.09	TCHSLT
AAB066_6-25	25	6	6	41214.8	41214.8	0.96%					20	4	49.81	TCHSLT
AAB076_6-25	25	6	6	44818.6	44818.6	1.37%					30	6	44.39	TCHSLT
AAB086_6-25	25	6	6	44107.6	44107.6	1.77%					20	4	47.57	TCHSLT
AAB096_6-25	25	6	6	44666.1	44666.1	1.55%					15	3	37.26	TCHSLT
AAB0012_6-25	25	6	12	79870.4	79870.4	0.55%					81	14	195.10	TCHSLT
AAB0112_6-25	25	6	12	82970.5	82970.5	0.50%					52	9	209.32	TCHSLT
AAB0212_6-25	25	6	12	82956.9	82956.9	0.33%					70	12	204.13	TCHSLT
AAB0312_6-25	25	6	12	80542.3	80542.3	-0.27%					81	14	250.33	TCHSLT
AAB0412_6-25	25	6	12	84560.0	84560.0	0.15%					81	14	385.70	TCHSLT
AAB0512_6-25	25	6	12	79388.8	79388.8	0.34%					87	15	214.84	TCHSLT
AAB0612_6-25	25	6	12	76897.9	76897.9	0.08%					80	14	195.52	TCHSLT
AAB0712_6-25	25	6	12	79671.6	79671.6	0.15%					57	10	108.46	TCHSLT
AAB0812_6-25	25	6	12	79332.2	79332.2	0.48%					41	7	99.08	TCHSLT
AAB0912_6-25	25	6	12	85703.8	85703.8	0.50%					126	22	357.01	TCHSLT
AAB0018_6-25	25	6	18	115930.2	115930.2	0.35%					68	9	342.73	TCHSLT
AAB0118_6-25	25	6	18	121241.4	121241.4	0.60%					106	14	457.20	TCHSLT
AAB0218_6-25	25	6	18	124457.8	124457.8	0.33%					76	10	361.30	TCHSLT
AAB0318_6-25	25	6	18	120516.1	120516.1	-0.07%					84	11	520.96	TCHSLT
AAB0418_6-25	25	6	18	125099.6	125099.6	-0.83%					84	11	467.06	TCHSLT
AAB0518_6-25	25	6	18	121022.6	121022.6	0.34%					176	23	539.11	TCHSLT
AAB0618_6-25	25	6	18	112791.4	112791.4	0.26%					128	17	481.05	TCHSLT
AAB0718_6-25	25	6	18	117884.7	117884.7	0.05%					54	7	164.02	TCHSLT
AAB0818_6-25	25	6	18	113596.9	113596.9	0.16%					60	8	243.96	TCHSLT
AAB0918_6-25	25	6	18	126304.1	126304.1	0.00%					114	15	403.62	TCHSLT
AAB006_6-50	50	6	6	77143.7	77143.7	0.58%					20	4	66.33	TCHSLT
AAB016_6-50	50	6	6	80747.7	80747.7	0.70%					20	4	88.49	TCHSLT
AAB026_6-50	50	6	6	83334.4	83334.4	0.24%					15	3	70.80	TCHSLT
AAB036_6-50	50	6	6	81012.5	81012.5	0.61%					20	4	62.87	TCHSLT
AAB046_6-50	50	6	6	84088.3	84088.3	0.14%					25	5	88.87	TCHSLT
AAB056_6-50	50	6	6	84940.1	84940.1	0.54%					20	4	87.38	TCHSLT
AAB066_6-50	50	6	6	81128.4	81128.4	0.21%					25	5	101.80	TCHSLT
AAB076_6-50	50	6	6	83504.4	83504.4	0.28%					25	5	50.71	TCHSLT
AAB086_6-50	50	6	6	79906.4	79906.4	0.40%					15	3	52.47	TCHSLT
AAB096_6-50	50	6	6	80650.7	80650.7	0.14%					30	6	82.76	TCHSLT
AAB0012_6-50	50	6	12	149116.5	149116.5	0.29%					63	11	259.01	TCHSLT
AAB0112_6-50	50	6	12	151554.9	151554.9	0.24%					86	15	247.19	TCHSLT
AAB0212_6-50	50	6	12	157019.3	157019.3	0.14%					74	13	427.28	TCHSLT
AAB0312_6-50	50	6	12	154880.7	154880.7	0.10%					57	10	257.64	TCHSLT
AAB0412_6-50	50	6	12	163041.0	163041.0	0.40%					110	19	526.42	TCHSLT
AAB0512_6-50	50	6	12	161034.9	161034.9	0.12%					110	19	486.51	TCHSLT
AAB0612_6-50	50	6	12	151612.8	151612.8	-0.14%					99	17	540.23	TCHSLT
AAB0712_6-50	50	6	12	158655.8	158655.8	0.08%					63	11	240.31	TCHSLT
AAB0812_6-50	50	6	12	146300.7	146300.7	0.13%					81	14	300.36	TCHSLT
AAB0912_6-50	50	6	12	154531.9	154531.9	0.19%					75	13	312.61	TCHSLT
AAB0018_6-50	50	6	18	218857.7	218857.7	-0.09%					98	13	511.71	TCHSLT
AAB0118_6-50	50	6	18	222286.8	222286.8	0.05%					60	8	358.81	TCHSLT
AAB0218_6-50	50	6	18	227071.7	228004.7	-0.20%					109	15	650.60	TCHSLT
AAB0318_6-50	50	6	18	228751.4	228989.3	-0.23%					95	13	657.54	TCHSLT
AAB0418_6-50	50	6	18	241376.7	241376.7	0.02%					68	9	649.64	TCHSLT
AAB0518_6-50	50	6	18	229480.5	230279.8	-0.07%					103	14	661.46	TCHSLT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
AAB0618_6-50	50	6	18	224128.2	224636.7	-0.05%					68	9	669.02	TCHSLT
AAB0718_6-50	50	6	18	232326.4	232326.4	-0.06%					60	8	388.36	TCHSLT
AAB0818_6-50	50	6	18	218687.4	218687.4	0.08%					82	11	515.52	TCHSLT
AAB0918_6-50	50	6	18	227587.6	227587.6	0.03%					60	8	494.08	TCHSLT
ABA006_2-6	6	2	6	8175.8	8175.8	0.02%					25	5	1.08	TCLSHT
ABA016_2-6	6	2	6	5995.8	5995.8	0.35%					10	2	0.44	TCLSHT
ABA026_2-6	6	2	6	7073.9	7073.9	0.00%					15	3	0.59	TCLSHT
ABA036_2-6	6	2	6	7799.3	7799.3	0.00%					25	5	0.64	TCLSHT
ABA046_2-6	6	2	6	7965.2	7965.2	0.60%					10	2	0.56	TCLSHT
ABA056_2-6	6	2	6	9377.3	9377.3	0.00%					15	3	0.35	TCLSHT
ABA066_2-6	6	2	6	8097.5	8097.5	0.54%					10	2	0.42	TCLSHT
ABA076_2-6	6	2	6	9148.9	9148.9	0.21%					15	3	0.63	TCLSHT
ABA086_2-6	6	2	6	8192.9	8192.9	0.00%					10	2	0.42	TCLSHT
ABA096_2-6	6	2	6	7104.4	7104.4	0.00%					15	3	0.33	TCLSHT
ABA0012_2-6	6	2	12	15598.3	15598.3	0.00%					40	7	3.74	TCLSHT
ABA0112_2-6	6	2	12	13427.4	13427.4	0.06%					23	4	1.70	TCLSHT
ABA0212_2-6	6	2	12	14728.6	14728.6	0.03%					35	6	2.83	TCLSHT
ABA0412_2-6	6	2	12	13873.9	13873.9	0.30%					51	9	8.58	TCLSHT
ABA0512_2-6	6	2	12	17403.2	17403.2	0.02%					23	4	1.34	TCLSHT
ABA0612_2-6	6	2	12	14950.6	14950.6	0.04%					17	3	1.17	TCLSHT
ABA0712_2-6	6	2	12	16617.9	16617.9	0.00%					29	5	2.22	TCLSHT
ABA0812_2-6	6	2	12	14158.1	14158.1	0.00%					34	6	2.07	TCLSHT
ABA0912_2-6	6	2	12	16127.2	16127.2	0.02%					23	4	1.20	TCLSHT
ABA0018_2-6	6	2	18	21820.1	21820.1	0.04%					52	7	14.35	TCLSHT
ABA0118_2-6	6	2	18	20129.5	20129.5	0.00%					44	6	3.31	TCLSHT
ABA0218_2-6	6	2	18	22471.9	22471.9	0.01%					38	5	6.16	TCLSHT
ABA0418_2-6	6	2	18	20175.0	20175.0	0.00%					44	6	9.35	TCLSHT
ABA0518_2-6	6	2	18	25054.5	25054.5	0.00%					52	7	4.14	TCLSHT
ABA0618_2-6	6	2	18	22805.2	22805.2	0.00%					44	6	4.64	TCLSHT
ABA0718_2-6	6	2	18	24393.0	24393.0	0.08%					38	5	8.54	TCLSHT
ABA0818_2-6	6	2	18	20874.4	20874.4	0.00%					60	8	6.21	TCLSHT
ABA0918_2-6	6	2	18	22474.4	22474.4	0.00%					38	5	3.66	TCLSHT
ABA006_2-12	12	2	6	12675.3	12675.3	0.00%					15	3	0.61	TCLSHT
ABA016_2-12	12	2	6	14162.4	14162.4	0.00%					15	3	0.85	TCLSHT
ABA026_2-12	12	2	6	14163.9	14163.9	0.00%					10	2	0.68	TCLSHT
ABA036_2-12	12	2	6	16340.9	16340.9	0.00%					20	4	0.85	TCLSHT
ABA046_2-12	12	2	6	14200.4	14200.4	0.00%					10	2	0.63	TCLSHT
ABA056_2-12	12	2	6	16585.2	16585.2	0.27%					10	2	0.72	TCLSHT
ABA066_2-12	12	2	6	13792.6	13792.6	0.00%					15	3	0.62	TCLSHT
ABA076_2-12	12	2	6	15411.5	15411.5	0.05%					10	2	0.48	TCLSHT
ABA086_2-12	12	2	6	12861.9	12861.9	0.03%					10	2	0.70	TCLSHT
ABA096_2-12	12	2	6	15984.6	15984.6	0.33%					10	2	0.95	TCLSHT
ABA0012_2-12	12	2	12	26199.7	26199.7	0.00%					23	4	1.65	TCLSHT
ABA0112_2-12	12	2	12	27441.3	27441.3	0.00%					23	4	2.06	TCLSHT
ABA0212_2-12	12	2	12	27201.2	27201.2	0.04%					34	6	5.91	TCLSHT
ABA0312_2-12	12	2	12	31742.0	31742.0	0.02%					35	6	3.32	TCLSHT
ABA0412_2-12	12	2	12	28313.2	28313.2	0.01%					40	7	4.64	TCLSHT
ABA0512_2-12	12	2	12	32081.3	32081.3	0.00%					28	5	2.61	TCLSHT
ABA0612_2-12	12	2	12	27240.2	27240.2	0.01%					34	6	2.60	TCLSHT
ABA0712_2-12	12	2	12	30388.6	30388.6	0.01%					34	6	3.49	TCLSHT
ABA0812_2-12	12	2	12	26674.7	26674.7	0.00%					57	10	5.08	TCLSHT
ABA0912_2-12	12	2	12	31084.9	31084.9	0.03%					34	6	7.98	TCLSHT
ABA0118_2-12	12	2	18	40447.4	40447.4	0.00%					60	8	10.58	TCLSHT
ABA0218_2-12	12	2	18	41715.6	41715.6	0.00%					60	8	15.96	TCLSHT
ABA0318_2-12	12	2	18	46256.9	46256.9	0.00%					60	8	12.84	TCLSHT
ABA0418_2-12	12	2	18	44169.3	44169.3	0.00%					44	6	6.43	TCLSHT
ABA0518_2-12	12	2	18	47321.1	47321.1	0.00%					44	6	7.35	TCLSHT
ABA0618_2-12	12	2	18	40625.0	40625.0	0.00%					74	10	8.74	TCLSHT
ABA0718_2-12	12	2	18	45446.7	45446.7	0.00%					30	4	4.54	TCLSHT
ABA0818_2-12	12	2	18	41316.5	41316.5	0.00%					52	7	9.60	TCLSHT
ABA0918_2-12	12	2	18	47373.9	47373.9	0.01%					52	7	53.28	TCLSHT
ABA006_2-25	25	2	6	29198.3	29198.3	0.02%					15	3	1.00	TCLSHT
ABA016_2-25	25	2	6	29917.1	29917.1	0.09%					15	3	1.55	TCLSHT
ABA026_2-25	25	2	6	28576.6	28576.6	0.00%					20	4	2.10	TCLSHT
ABA036_2-25	25	2	6	30172.5	30172.5	0.00%					15	3	1.24	TCLSHT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA046_2-25	25	2	6	31433.8	31433.8	0.07%					10	2	1.51	TCLSHT
ABA056_2-25	25	2	6	31510.0	31510.0	0.00%					10	2	1.53	TCLSHT
ABA066_2-25	25	2	6	27884.3	27884.3	0.00%					10	2	0.66	TCLSHT
ABA076_2-25	25	2	6	31327.3	31327.3	0.03%					10	2	1.20	TCLSHT
ABA086_2-25	25	2	6	32150.3	32150.3	0.00%					30	6	4.08	TCLSHT
ABA096_2-25	25	2	6	33238.6	33238.6	0.06%					15	3	1.60	TCLSHT
ABA0012_2-25	25	2	12	58210.7	58210.7	0.00%					17	3	3.10	TCLSHT
ABA0112_2-25	25	2	12	60926.9	60926.9	0.00%					40	7	7.56	TCLSHT
ABA0212_2-25	25	2	12	56231.8	56231.8	0.00%					51	9	8.73	TCLSHT
ABA0312_2-25	25	2	12	59204.3	59204.3	0.03%					46	8	13.23	TCLSHT
ABA0412_2-25	25	2	12	59680.1	59680.1	0.01%					40	7	7.87	TCLSHT
ABA0512_2-25	25	2	12	65035.6	65035.6	0.02%					46	8	24.74	TCLSHT
ABA0612_2-25	25	2	12	57223.0	57223.0	0.00%					17	3	1.69	TCLSHT
ABA0712_2-25	25	2	12	62792.3	62792.3	0.04%					40	7	10.69	TCLSHT
ABA0812_2-25	25	2	12	62877.9	62877.9	0.02%					57	10	35.16	TCLSHT
ABA0912_2-25	25	2	12	63990.7	63990.7	0.02%					45	8	18.12	TCLSHT
ABA0018_2-25	25	2	18	87020.2	87020.2	0.00%					22	3	3.95	TCLSHT
ABA0118_2-25	25	2	18	88585.5	88585.5	0.00%					44	6	12.96	TCLSHT
ABA0218_2-25	25	2	18	83260.9	83260.9	0.00%					84	11	28.78	TCLSHT
ABA0318_2-25	25	2	18	91360.6	91360.6	0.00%					38	5	19.12	TCLSHT
ABA0418_2-25	25	2	18	90592.4	90592.4	0.00%					52	7	15.68	TCLSHT
ABA0518_2-25	25	2	18	95130.3	95130.3	0.01%					30	4	49.58	TCLSHT
ABA0618_2-25	25	2	18	83556.7	83556.7	0.02%					44	6	5.58	TCLSHT
ABA0718_2-25	25	2	18	92162.0	92162.0	0.00%					46	6	20.80	TCLSHT
ABA0818_2-25	25	2	18	91526.2	91526.2	0.00%					44	6	64.02	TCLSHT
ABA0918_2-25	25	2	18	93150.3	93150.3	0.01%					54	7	17.58	TCLSHT
ABA006_2-50	50	2	6	58807.8	58807.8	0.03%					10	2	1.66	TCLSHT
ABA016_2-50	50	2	6	60308.0	60308.0	0.01%					10	2	1.66	TCLSHT
ABA026_2-50	50	2	6	56150.4	56150.4	0.02%					15	3	3.45	TCLSHT
ABA036_2-50	50	2	6	59294.9	59294.9	0.00%					10	2	1.83	TCLSHT
ABA046_2-50	50	2	6	60900.4	60900.4	0.03%					15	3	3.59	TCLSHT
ABA056_2-50	50	2	6	59362.1	59362.1	0.03%					15	3	2.63	TCLSHT
ABA066_2-50	50	2	6	56004.4	56004.4	0.00%					10	2	2.13	TCLSHT
ABA076_2-50	50	2	6	58961.9	58961.9	0.01%					10	2	2.49	TCLSHT
ABA086_2-50	50	2	6	60048.9	60048.9	0.01%					10	2	2.26	TCLSHT
ABA096_2-50	50	2	6	60666.9	60666.9	0.00%					15	3	2.28	TCLSHT
ABA0012_2-50	50	2	12	117326.1	117326.1	0.01%					29	5	7.82	TCLSHT
ABA0112_2-50	50	2	12	119907.3	119907.3	0.02%					40	7	10.23	TCLSHT
ABA0212_2-50	50	2	12	114060.9	114060.9	0.00%					29	5	15.61	TCLSHT
ABA0312_2-50	50	2	12	119932.7	119932.7	0.00%					40	7	13.87	TCLSHT
ABA0412_2-50	50	2	12	122233.7	122233.7	0.00%					40	7	36.02	TCLSHT
ABA0512_2-50	50	2	12	119365.2	119365.2	0.00%					23	4	5.17	TCLSHT
ABA0612_2-50	50	2	12	113641.0	113641.0	0.00%					45	8	7.01	TCLSHT
ABA0712_2-50	50	2	12	114723.4	114723.4	0.01%					51	9	40.33	TCLSHT
ABA0812_2-50	50	2	12	115416.9	115416.9	0.00%					51	9	28.43	TCLSHT
ABA0912_2-50	50	2	12	122425.8	122425.8	0.00%					51	9	12.89	TCLSHT
ABA0018_2-50	50	2	18	175783.6	175783.6	0.00%					22	3	7.56	TCLSHT
ABA0118_2-50	50	2	18	178762.6	178762.6	0.00%					36	5	9.74	TCLSHT
ABA0218_2-50	50	2	18	169735.9	169735.9	0.00%					44	6	23.57	TCLSHT
ABA0318_2-50	50	2	18	181048.0	181048.0	0.00%					30	4	11.73	TCLSHT
ABA0418_2-50	50	2	18	182040.2	182040.2	0.02%					46	6	155.97	TCLSHT
ABA0518_2-50	50	2	18	181078.3	181078.3	0.00%					36	5	25.55	TCLSHT
ABA0618_2-50	50	2	18	171765.8	171765.8	0.00%					44	6	13.42	TCLSHT
ABA0718_2-50	50	2	18	172463.7	172463.7	0.00%					30	4	14.42	TCLSHT
ABA0818_2-50	50	2	18	173606.9	173606.9	0.00%					76	10	36.14	TCLSHT
ABA0918_2-50	50	2	18	182988.0	182988.0	0.00%					50	7	39.61	TCLSHT
ABA006_4-6	6	4	6	6353.8	6353.8	0.00%					15	3	0.86	TCLSHT
ABA016_4-6	6	4	6	7264.3	7264.3	0.00%					30	6	2.49	TCLSHT
ABA026_4-6	6	4	6	7336.3	7336.3	0.03%					15	3	0.79	TCLSHT
ABA036_4-6	6	4	6	6706.7	6706.7	0.10%					15	3	1.04	TCLSHT
ABA046_4-6	6	4	6	5553.5	5553.5	0.00%					15	3	0.80	TCLSHT
ABA056_4-6	6	4	6	7907.9	7907.9	0.00%					15	3	2.06	TCLSHT
ABA066_4-6	6	4	6	6384.9	6384.9	0.28%					15	3	0.98	TCLSHT
ABA076_4-6	6	4	6	7671.5	7671.5	0.00%					10	2	0.57	TCLSHT
ABA086_4-6	6	4	6	5863.1	5863.1	0.07%					20	4	1.02	TCLSHT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA096_4-6	6	4	6	8598.5	8598.5	0.54%					15	3	0.96	TCLSHT
ABA0012_4-6	6	4	12	11705.7	11705.7	0.00%					23	4	2.08	TCLSHT
ABA0112_4-6	6	4	12	15268.3	15268.3	0.00%					46	8	8.51	TCLSHT
ABA0212_4-6	6	4	12	14582.8	14582.8	0.00%					40	7	4.62	TCLSHT
ABA0312_4-6	6	4	12	14422.5	14422.5	0.00%					23	4	3.66	TCLSHT
ABA0412_4-6	6	4	12	12864.5	12864.5	0.00%					41	7	8.69	TCLSHT
ABA0512_4-6	6	4	12	15837.1	15837.1	0.13%					40	7	13.20	TCLSHT
ABA0612_4-6	6	4	12	12744.8	12744.8	0.00%					34	6	3.88	TCLSHT
ABA0712_4-6	6	4	12	14690.0	14690.0	0.03%					29	5	3.55	TCLSHT
ABA0812_4-6	6	4	12	12383.2	12383.2	0.18%					40	7	5.82	TCLSHT
ABA0912_4-6	6	4	12	14845.8	14845.8	0.00%					23	4	3.77	TCLSHT
ABA0018_4-6	6	4	18	18616.5	18616.5	0.00%					38	5	11.51	TCLSHT
ABA0118_4-6	6	4	18	21741.5	21741.5	0.04%					38	5	25.71	TCLSHT
ABA0218_4-6	6	4	18	21432.5	21432.5	0.00%					60	8	12.26	TCLSHT
ABA0318_4-6	6	4	18	22047.9	22047.9	0.00%					38	5	10.64	TCLSHT
ABA0418_4-6	6	4	18	19933.7	19933.7	0.00%					60	8	13.15	TCLSHT
ABA0518_4-6	6	4	18	23482.3	23482.3	0.00%					46	6	25.16	TCLSHT
ABA0618_4-6	6	4	18	19784.2	19784.2	0.09%					38	5	14.98	TCLSHT
ABA0718_4-6	6	4	18	22367.2	22367.2	0.00%					38	5	8.45	TCLSHT
ABA0818_4-6	6	4	18	18176.4	18176.4	0.00%					30	4	7.73	TCLSHT
ABA0918_4-6	6	4	18	22157.9	22157.9	0.00%					30	4	8.65	TCLSHT
ABA006_4-12	12	4	6	13271.6	13271.6	0.00%					15	3	1.72	TCLSHT
ABA016_4-12	12	4	6	15439.5	15439.5	0.00%					15	3	3.70	TCLSHT
ABA026_4-12	12	4	6	13157.6	13157.6	0.00%					15	3	1.39	TCLSHT
ABA036_4-12	12	4	6	12340.3	12340.3	0.00%					15	3	1.76	TCLSHT
ABA046_4-12	12	4	6	14390.6	14390.6	0.10%					10	2	1.36	TCLSHT
ABA056_4-12	12	4	6	14184.0	14184.0	0.01%					15	3	2.29	TCLSHT
ABA066_4-12	12	4	6	12667.1	12667.1	0.00%					10	2	1.08	TCLSHT
ABA076_4-12	12	4	6	12500.9	12500.9	0.16%					10	2	1.45	TCLSHT
ABA086_4-12	12	4	6	14701.0	14701.0	0.01%					20	4	1.62	TCLSHT
ABA096_4-12	12	4	6	13295.2	13295.2	0.19%					20	4	3.69	TCLSHT
ABA0012_4-12	12	4	12	24755.4	24755.4	0.00%					75	13	19.63	TCLSHT
ABA0112_4-12	12	4	12	28652.0	28652.0	0.01%					69	12	40.27	TCLSHT
ABA0212_4-12	12	4	12	26526.1	26526.1	0.00%					63	11	12.30	TCLSHT
ABA0312_4-12	12	4	12	25463.3	25463.3	0.00%					57	10	9.74	TCLSHT
ABA0412_4-12	12	4	12	27370.8	27370.8	0.01%					40	7	8.91	TCLSHT
ABA0512_4-12	12	4	12	27924.4	27924.4	0.00%					57	10	15.77	TCLSHT
ABA0612_4-12	12	4	12	24615.2	24615.2	0.00%					34	6	3.38	TCLSHT
ABA0712_4-12	12	4	12	26355.3	26355.3	0.00%					34	6	12.61	TCLSHT
ABA0812_4-12	12	4	12	28141.0	28141.0	0.00%					34	6	7.31	TCLSHT
ABA0912_4-12	12	4	12	28635.0	28635.0	0.00%					46	8	30.69	TCLSHT
ABA0018_4-12	12	4	18	38443.7	38443.7	-0.01%					52	7	58.52	TCLSHT
ABA0118_4-12	12	4	18	42108.9	42108.9	0.02%					60	8	118.96	TCLSHT
ABA0218_4-12	12	4	18	39454.4	39454.4	0.00%					38	5	15.85	TCLSHT
ABA0318_4-12	12	4	18	39731.8	39731.8	0.00%					38	5	23.78	TCLSHT
ABA0418_4-12	12	4	18	40766.3	40766.3	0.00%					82	11	45.66	TCLSHT
ABA0518_4-12	12	4	18	41146.6	41146.6	0.05%					38	5	24.21	TCLSHT
ABA0618_4-12	12	4	18	37160.0	37160.0	0.00%					38	5	9.14	TCLSHT
ABA0718_4-12	12	4	18	41285.0	41285.0	0.03%					52	7	45.23	TCLSHT
ABA0818_4-12	12	4	18	42912.9	42912.9	0.01%					38	5	17.70	TCLSHT
ABA0918_4-12	12	4	18	41703.7	41703.7	-0.06%					38	5	62.77	TCLSHT
ABA006_4-25	25	4	6	25601.1	25601.1	0.01%					15	3	2.59	TCLSHT
ABA016_4-25	25	4	6	29516.4	29516.4	0.06%					15	3	2.65	TCLSHT
ABA026_4-25	25	4	6	27657.7	27657.7	0.00%					15	3	5.97	TCLSHT
ABA036_4-25	25	4	6	26044.5	26044.5	0.04%					20	4	5.24	TCLSHT
ABA046_4-25	25	4	6	26664.6	26664.6	0.01%					10	2	1.33	TCLSHT
ABA056_4-25	25	4	6	30212.6	30212.6	0.15%					10	2	3.71	TCLSHT
ABA066_4-25	25	4	6	25386.9	25386.9	0.04%					15	3	1.71	TCLSHT
ABA076_4-25	25	4	6	27076.7	27076.7	0.03%					15	3	4.98	TCLSHT
ABA086_4-25	25	4	6	26279.4	26279.4	0.06%					15	3	2.03	TCLSHT
ABA096_4-25	25	4	6	27977.3	27977.3	0.07%					15	3	4.80	TCLSHT
ABA0012_4-25	25	4	12	53759.3	53759.3	0.01%					35	6	26.43	TCLSHT
ABA0112_4-25	25	4	12	56367.7	56367.7	0.00%					51	9	14.96	TCLSHT
ABA0212_4-25	25	4	12	53350.1	53350.1	0.03%					57	10	62.72	TCLSHT
ABA0312_4-25	25	4	12	54124.4	54124.4	0.02%					34	6	34.71	TCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0412_4-25	25	4	12	54964.8	54964.8	0.00%					34	6	7.28	TCLSHT
ABA0512_4-25	25	4	12	57158.7	57158.7	0.05%					40	7	20.92	TCLSHT
ABA0612_4-25	25	4	12	50717.9	50717.9	0.01%					28	5	5.79	TCLSHT
ABA0712_4-25	25	4	12	55583.4	55583.4	0.00%					57	10	73.70	TCLSHT
ABA0812_4-25	25	4	12	54121.8	54121.8	0.01%					57	10	32.35	TCLSHT
ABA0912_4-25	25	4	12	54965.3	54965.3	0.00%					29	5	44.37	TCLSHT
ABA0018_4-25	25	4	18	78120.9	78120.9	0.01%					38	5	53.13	TCLSHT
ABA0118_4-25	25	4	18	83943.3	83943.3	0.02%					52	7	24.96	TCLSHT
ABA0218_4-25	25	4	18	80993.1	80993.1	0.02%					60	8	102.45	TCLSHT
ABA0318_4-25	25	4	18	80508.1	80508.1	0.01%					44	6	30.64	TCLSHT
ABA0418_4-25	25	4	18	83338.3	83338.3	0.00%					36	5	8.05	TCLSHT
ABA0518_4-25	25	4	18	84453.4	84453.4	0.02%					38	5	33.00	TCLSHT
ABA0618_4-25	25	4	18	77407.2	77407.2	0.00%					36	5	12.45	TCLSHT
ABA0718_4-25	25	4	18	82773.0	82773.0	0.06%					52	7	128.86	TCLSHT
ABA0818_4-25	25	4	18	78520.8	78520.8	0.00%					38	5	19.95	TCLSHT
ABA0918_4-25	25	4	18	82442.2	82442.2	0.00%					46	6	61.72	TCLSHT
ABA006_4-50	50	4	6	54643.6	54643.6	0.00%					15	3	3.73	TCLSHT
ABA016_4-50	50	4	6	55415.2	55415.2	0.02%					15	3	3.65	TCLSHT
ABA026_4-50	50	4	6	56062.2	56062.2	0.01%					10	2	3.29	TCLSHT
ABA036_4-50	50	4	6	55279.3	55279.3	0.03%					15	3	7.59	TCLSHT
ABA046_4-50	50	4	6	56931.4	56931.4	0.03%					15	3	12.24	TCLSHT
ABA056_4-50	50	4	6	57378.7	57378.7	0.00%					20	4	5.10	TCLSHT
ABA066_4-50	50	4	6	52880.3	52880.3	0.02%					15	3	3.96	TCLSHT
ABA076_4-50	50	4	6	51697.5	51697.5	0.03%					10	2	5.26	TCLSHT
ABA086_4-50	50	4	6	52932.3	52932.3	0.02%					10	2	5.67	TCLSHT
ABA096_4-50	50	4	6	60180.8	60180.8	0.03%					10	2	3.85	TCLSHT
ABA0012_4-50	50	4	12	110467.0	110467.0	0.00%					46	8	84.70	TCLSHT
ABA0112_4-50	50	4	12	108467.8	108467.8	0.01%					34	6	12.34	TCLSHT
ABA0212_4-50	50	4	12	108025.1	108025.1	0.01%					51	9	24.43	TCLSHT
ABA0312_4-50	50	4	12	110197.3	110197.3	0.00%					34	6	28.87	TCLSHT
ABA0412_4-50	50	4	12	109698.8	109698.8	0.00%					34	6	64.98	TCLSHT
ABA0512_4-50	50	4	12	112015.9	112015.9	0.00%					34	6	10.95	TCLSHT
ABA0612_4-50	50	4	12	104015.9	104015.9	0.00%					23	4	6.32	TCLSHT
ABA0712_4-50	50	4	12	106632.7	106632.7	0.00%					68	12	120.39	TCLSHT
ABA0812_4-50	50	4	12	106511.9	106511.9	0.00%					34	6	9.01	TCLSHT
ABA0912_4-50	50	4	12	114383.6	114383.6	0.00%					51	9	32.34	TCLSHT
ABA0018_4-50	50	4	18	160088.9	160088.9	0.00%					44	6	51.35	TCLSHT
ABA0118_4-50	50	4	18	161812.6	161812.6	0.00%					44	6	31.56	TCLSHT
ABA0218_4-50	50	4	18	162909.0	162909.0	0.00%					44	6	44.99	TCLSHT
ABA0318_4-50	50	4	18	163386.7	163386.7	0.02%					58	8	112.89	TCLSHT
ABA0418_4-50	50	4	18	166569.9	166569.9	-0.01%					46	6	124.12	TCLSHT
ABA0518_4-50	50	4	18	168096.7	168096.7	0.00%					38	5	21.16	TCLSHT
ABA0618_4-50	50	4	18	156358.1	156358.1	0.00%					60	8	42.98	TCLSHT
ABA0718_4-50	50	4	18	161775.8	161775.8	0.00%					66	9	166.35	TCLSHT
ABA0818_4-50	50	4	18	157361.2	157361.2	0.00%					30	4	14.38	TCLSHT
ABA0918_4-50	50	4	18	168535.2	168535.2	0.01%					30	4	33.62	TCLSHT
ABA006_6-6	6	6	6	5671.8	5671.8	0.03%					15	3	1.20	TCLSHT
ABA016_6-6	6	6	6	7319.1	7319.1	0.28%					20	4	4.76	TCLSHT
ABA026_6-6	6	6	6	6982.3	6982.3	0.00%					15	3	1.06	TCLSHT
ABA036_6-6	6	6	6	7413.1	7413.1	0.00%					20	4	1.15	TCLSHT
ABA046_6-6	6	6	6	8171.4	8171.4	0.21%					15	3	2.43	TCLSHT
ABA056_6-6	6	6	6	8037.9	8037.9	0.00%					15	3	1.97	TCLSHT
ABA066_6-6	6	6	6	6733.8	6733.8	0.00%					15	3	1.21	TCLSHT
ABA076_6-6	6	6	6	7779.2	7779.2	0.06%					15	3	2.07	TCLSHT
ABA086_6-6	6	6	6	6744.1	6744.1	0.43%					15	3	2.32	TCLSHT
ABA096_6-6	6	6	6	7580.5	7580.5	0.38%					15	3	2.82	TCLSHT
ABA0012_6-6	6	6	12	12136.4	12136.4	0.00%					23	4	2.34	TCLSHT
ABA0112_6-6	6	6	12	14293.3	14293.3	0.00%					52	9	9.27	TCLSHT
ABA0212_6-6	6	6	12	14355.6	14355.6	0.18%					34	6	10.25	TCLSHT
ABA0312_6-6	6	6	12	14837.7	14837.7	0.00%					46	8	8.18	TCLSHT
ABA0412_6-6	6	6	12	15048.0	15048.0	0.01%					57	10	12.82	TCLSHT
ABA0512_6-6	6	6	12	14768.7	14768.7	0.21%					40	7	8.36	TCLSHT
ABA0612_6-6	6	6	12	12767.0	12767.0	0.00%					34	6	8.04	TCLSHT
ABA0712_6-6	6	6	12	15302.5	15302.5	0.07%					34	6	12.23	TCLSHT
ABA0812_6-6	6	6	12	12617.6	12617.6	0.00%					40	7	19.68	TCLSHT

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Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0912_6-6	6	6	12	14338.0	14338.0	0.00%					57	10	17.13	TCLSHT
ABA0018_6-6	6	6	18	17950.1	17950.1	0.00%					30	4	7.05	TCLSHT
ABA0218_6-6	6	6	18	20073.2	20073.2	0.00%					90	12	23.14	TCLSHT
ABA0318_6-6	6	6	18	20707.4	20707.4	0.19%					52	7	19.33	TCLSHT
ABA0418_6-6	6	6	18	22441.3	22441.3	0.02%					38	5	23.07	TCLSHT
ABA0518_6-6	6	6	18	22447.8	22447.8	0.00%					46	6	16.87	TCLSHT
ABA0618_6-6	6	6	18	20119.8	20119.8	0.00%					52	7	19.56	TCLSHT
ABA0718_6-6	6	6	18	22021.8	22021.8	0.05%					60	8	21.66	TCLSHT
ABA0818_6-6	6	6	18	20320.3	20320.3	0.30%					38	5	25.25	TCLSHT
ABA0918_6-6	6	6	18	21702.2	21702.2	0.00%					52	7	33.55	TCLSHT
ABA006_6-12	12	6	6	12825.4	12825.4	0.10%					20	4	2.44	TCLSHT
ABA016_6-12	12	6	6	13123.5	13123.5	0.08%					10	2	1.95	TCLSHT
ABA026_6-12	12	6	6	12086.0	12086.0	0.00%					20	4	1.95	TCLSHT
ABA036_6-12	12	6	6	12971.2	12971.2	0.00%					10	2	1.27	TCLSHT
ABA046_6-12	12	6	6	12798.9	12798.9	0.00%					15	3	1.76	TCLSHT
ABA056_6-12	12	6	6	12392.2	12392.2	0.00%					20	4	1.63	TCLSHT
ABA066_6-12	12	6	6	11702.1	11702.1	0.00%					15	3	2.21	TCLSHT
ABA076_6-12	12	6	6	13572.5	13572.5	0.00%					25	5	5.69	TCLSHT
ABA086_6-12	12	6	6	13523.8	13523.8	0.40%					15	3	4.13	TCLSHT
ABA096_6-12	12	6	6	14406.8	14406.8	0.02%					15	3	4.73	TCLSHT
ABA0012_6-12	12	6	12	24229.0	24229.0	0.00%					63	11	12.10	TCLSHT
ABA0112_6-12	12	6	12	25698.4	25698.4	0.00%					46	8	13.11	TCLSHT
ABA0212_6-12	12	6	12	24225.2	24225.2	0.03%					46	8	43.20	TCLSHT
ABA0312_6-12	12	6	12	26589.5	26589.5	0.00%					23	4	5.98	TCLSHT
ABA0412_6-12	12	6	12	25073.5	25073.5	0.00%					34	6	6.26	TCLSHT
ABA0512_6-12	12	6	12	26322.3	26322.3	0.00%					40	7	17.30	TCLSHT
ABA0612_6-12	12	6	12	23650.2	23650.2	0.05%					52	9	15.32	TCLSHT
ABA0712_6-12	12	6	12	28116.6	28116.6	0.02%					58	10	89.07	TCLSHT
ABA0812_6-12	12	6	12	25965.6	25965.6	0.00%					46	8	37.49	TCLSHT
ABA0912_6-12	12	6	12	27423.9	27423.9	0.00%					52	9	25.23	TCLSHT
ABA0018_6-12	12	6	18	36553.7	36553.7	0.00%					38	5	23.37	TCLSHT
ABA0118_6-12	12	6	18	41270.3	41270.3	0.04%					38	5	30.89	TCLSHT
ABA0218_6-12	12	6	18	36881.3	36881.3	0.00%					44	6	32.52	TCLSHT
ABA0318_6-12	12	6	18	38518.2	38518.2	0.01%					30	4	17.32	TCLSHT
ABA0418_6-12	12	6	18	37126.2	37126.2	0.00%					38	5	14.28	TCLSHT
ABA0518_6-12	12	6	18	40636.6	40636.6	0.03%					44	6	39.15	TCLSHT
ABA0618_6-12	12	6	18	37432.6	37432.6	0.00%					74	10	54.10	TCLSHT
ABA0718_6-12	12	6	18	41589.7	41589.7	0.02%					60	8	106.15	TCLSHT
ABA0818_6-12	12	6	18	39536.4	39536.4	0.10%					38	5	94.36	TCLSHT
ABA0918_6-12	12	6	18	41320.6	41320.6	0.01%					52	7	52.02	TCLSHT
ABA006_6-25	25	6	6	25678.5	25678.5	0.07%					15	3	17.72	TCLSHT
ABA016_6-25	25	6	6	25434.6	25434.6	0.12%					15	3	12.81	TCLSHT
ABA026_6-25	25	6	6	26791.9	26791.9	0.00%					15	3	4.84	TCLSHT
ABA036_6-25	25	6	6	26823.6	26823.6	0.03%					20	4	21.02	TCLSHT
ABA046_6-25	25	6	6	28537.3	28537.3	0.07%					20	4	21.92	TCLSHT
ABA056_6-25	25	6	6	26307.5	26307.5	0.08%					20	4	13.47	TCLSHT
ABA066_6-25	25	6	6	25331.9	25331.9	0.00%					10	2	2.13	TCLSHT
ABA076_6-25	25	6	6	27981.4	27981.4	0.03%					20	4	8.47	TCLSHT
ABA086_6-25	25	6	6	26673.0	26673.0	0.02%					15	3	8.92	TCLSHT
ABA096_6-25	25	6	6	26356.7	26356.7	0.05%					20	4	5.66	TCLSHT
ABA0012_6-25	25	6	12	52458.3	52458.3	0.02%					46	8	91.88	TCLSHT
ABA0112_6-25	25	6	12	52631.5	52631.5	0.01%					34	6	79.78	TCLSHT
ABA0212_6-25	25	6	12	53996.3	53996.3	0.00%					45	8	24.13	TCLSHT
ABA0312_6-25	25	6	12	52442.2	52442.2	0.01%					57	10	125.26	TCLSHT
ABA0412_6-25	25	6	12	56012.9	56012.9	0.02%					52	9	140.17	TCLSHT
ABA0512_6-25	25	6	12	51790.4	51790.4	0.00%					46	8	67.63	TCLSHT
ABA0612_6-25	25	6	12	50992.6	50992.6	0.02%					34	6	10.95	TCLSHT
ABA0712_6-25	25	6	12	52727.8	52727.8	0.01%					29	5	36.32	TCLSHT
ABA0812_6-25	25	6	12	51185.7	51185.7	0.00%					52	9	25.41	TCLSHT
ABA0912_6-25	25	6	12	53578.4	53578.4	0.00%					46	8	29.60	TCLSHT
ABA0018_6-25	25	6	18	76421.3	76421.3	0.01%					38	5	164.11	TCLSHT
ABA0118_6-25	25	6	18	79413.7	79413.7	0.01%					52	7	112.48	TCLSHT
ABA0218_6-25	25	6	18	81688.0	81688.0	0.00%					52	7	84.65	TCLSHT
ABA0318_6-25	25	6	18	79829.5	79829.5	0.00%					76	10	462.04	TCLSHT
ABA0418_6-25	25	6	18	84929.9	84929.9	0.00%					60	8	241.50	TCLSHT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABA0518_6-25	25	6	18	80989.9	80989.9	0.00%					52	7	125.65	TCLSHT
ABA0618_6-25	25	6	18	76313.5	76313.5	0.00%					30	4	21.69	TCLSHT
ABA0718_6-25	25	6	18	77695.9	77695.9	0.01%					38	5	64.54	TCLSHT
ABA0818_6-25	25	6	18	75120.5	75120.5	0.00%					60	8	75.50	TCLSHT
ABA0918_6-25	25	6	18	81306.8	81306.8	0.00%					44	6	39.32	TCLSHT
ABA006_6-50	50	6	6	50606.5	50606.5	0.00%					15	3	9.30	TCLSHT
ABA016_6-50	50	6	6	50641.4	50641.4	0.00%					15	3	12.67	TCLSHT
ABA026_6-50	50	6	6	52197.8	52197.8	0.04%					15	3	27.78	TCLSHT
ABA036_6-50	50	6	6	51690.8	51690.8	0.01%					15	3	7.28	TCLSHT
ABA046_6-50	50	6	6	54018.6	54018.6	0.03%					20	4	28.01	TCLSHT
ABA056_6-50	50	6	6	52791.3	52791.3	0.07%					20	4	23.74	TCLSHT
ABA066_6-50	50	6	6	51970.2	51970.2	0.03%					15	3	34.42	TCLSHT
ABA076_6-50	50	6	6	54019.2	54019.2	0.03%					10	2	5.64	TCLSHT
ABA086_6-50	50	6	6	50871.1	50871.1	0.01%					20	4	30.05	TCLSHT
ABA096_6-50	50	6	6	50684.2	50684.2	0.02%					10	2	6.42	TCLSHT
ABA0012_6-50	50	6	12	102500.4	102500.4	0.01%					40	7	67.25	TCLSHT
ABA0112_6-50	50	6	12	101529.1	101529.1	0.00%					63	11	74.94	TCLSHT
ABA0212_6-50	50	6	12	105096.3	105096.3	0.00%					52	9	155.76	TCLSHT
ABA0312_6-50	50	6	12	102566.3	102566.3	0.00%					68	12	60.17	TCLSHT
ABA0412_6-50	50	6	12	109753.8	109753.8	0.00%					46	8	124.48	TCLSHT
ABA0512_6-50	50	6	12	105391.7	105391.7	0.03%					57	10	127.67	TCLSHT
ABA0612_6-50	50	6	12	102028.9	102028.9	0.01%					40	7	116.54	TCLSHT
ABA0712_6-50	50	6	12	107562.8	107562.8	0.00%					58	10	70.24	TCLSHT
ABA0812_6-50	50	6	12	99895.9	99895.9	0.00%					51	9	65.17	TCLSHT
ABA0912_6-50	50	6	12	102317.4	102317.4	0.00%					40	7	57.70	TCLSHT
ABA0018_6-50	50	6	18	152830.2	152830.2	0.00%					44	6	160.81	TCLSHT
ABA0118_6-50	50	6	18	150963.8	150963.8	0.00%					52	7	114.33	TCLSHT
ABA0218_6-50	50	6	18	154488.1	154488.1	0.01%					30	4	134.30	TCLSHT
ABA0318_6-50	50	6	18	154200.6	154200.6	0.00%					82	11	81.83	TCLSHT
ABA0418_6-50	50	6	18	164862.2	164862.2	0.00%					74	10	281.51	TCLSHT
ABA0518_6-50	50	6	18	155394.9	155394.9	-0.01%					60	8	219.30	TCLSHT
ABA0618_6-50	50	6	18	154273.9	154273.9	0.00%					46	6	224.53	TCLSHT
ABA0718_6-50	50	6	18	159118.6	159118.6	0.00%					38	5	102.20	TCLSHT
ABA0818_6-50	50	6	18	151032.7	151032.7	0.00%					60	8	97.50	TCLSHT
ABA0918_6-50	50	6	18	154199.2	154199.2	0.00%					30	4	87.60	TCLSHT
ABB006_2-6	6	2	6	8242.7	8242.7	0.20%					15	3	0.89	TCLSLT
ABB006_2-6	6	2	6	8242.7	8242.7	0.20%					15	3	0.88	TCLSLT
ABB016_2-6	6	2	6	6010.0	6010.0	0.21%					15	3	0.47	TCLSLT
ABB026_2-6	6	2	6	7157.4	7157.4	0.00%					10	2	0.62	TCLSLT
ABB046_2-6	6	2	6	8031.6	8031.6	0.00%					20	4	0.98	TCLSLT
ABB056_2-6	6	2	6	9398.0	9398.0	0.00%					10	2	0.34	TCLSLT
ABB066_2-6	6	2	6	8112.2	8112.2	0.00%					15	3	0.63	TCLSLT
ABB076_2-6	6	2	6	9232.4	9232.4	0.58%					10	2	0.46	TCLSLT
ABB086_2-6	6	2	6	8202.5	8202.5	0.00%					10	2	0.37	TCLSLT
ABB096_2-6	6	2	6	7159.4	7159.4	0.10%					15	3	0.32	TCLSLT
ABB0012_2-6	6	2	12	15719.6	15719.6	0.03%					40	7	5.03	TCLSLT
ABB0112_2-6	6	2	12	13461.1	13461.1	0.02%					23	4	1.76	TCLSLT
ABB0212_2-6	6	2	12	15041.1	15041.1	0.60%					46	8	5.22	TCLSLT
ABB0412_2-6	6	2	12	14146.8	14146.8	0.05%					70	12	5.42	TCLSLT
ABB0512_2-6	6	2	12	17484.8	17484.8	0.05%					23	4	1.28	TCLSLT
ABB0612_2-6	6	2	12	15123.3	15123.3	0.26%					34	6	2.31	TCLSLT
ABB0712_2-6	6	2	12	16712.4	16712.4	0.00%					46	8	3.74	TCLSLT
ABB0812_2-6	6	2	12	14186.3	14186.3	0.00%					29	5	1.88	TCLSLT
ABB0912_2-6	6	2	12	16158.4	16158.4	0.00%					46	8	2.47	TCLSLT
ABB0018_2-6	6	2	18	22013.4	22013.4	0.08%					74	10	20.56	TCLSLT
ABB0118_2-6	6	2	18	20184.6	20184.6	0.00%					30	4	3.58	TCLSLT
ABB0218_2-6	6	2	18	22591.8	22591.8	0.00%					60	8	6.85	TCLSLT
ABB0418_2-6	6	2	18	20388.2	20388.2	0.00%					68	9	13.43	TCLSLT
ABB0518_2-6	6	2	18	25221.1	25221.1	0.09%					38	5	4.88	TCLSLT
ABB0618_2-6	6	2	18	22943.8	22943.8	0.00%					22	3	4.44	TCLSLT
ABB0718_2-6	6	2	18	24512.4	24512.4	0.00%					52	7	9.89	TCLSLT
ABB0818_2-6	6	2	18	20972.8	20972.8	0.01%					52	7	5.88	TCLSLT
ABB0918_2-6	6	2	18	22508.0	22508.0	0.00%					30	4	3.24	TCLSLT
ABB006_2-12	12	2	6	12756.1	12756.1	0.03%					15	3	0.74	TCLSLT
ABB016_2-12	12	2	6	14316.4	14316.4	0.00%					25	5	1.03	TCLSLT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB026_2-12	12	2	6	14417.9	14417.9	0.24%					20	4	1.43	TCLSLT
ABB036_2-12	12	2	6	16417.8	16417.8	0.14%					15	3	0.85	TCLSLT
ABB046_2-12	12	2	6	14280.5	14280.5	0.00%					10	2	0.76	TCLSLT
ABB056_2-12	12	2	6	16631.4	16631.4	0.04%					20	4	1.22	TCLSLT
ABB066_2-12	12	2	6	13875.5	13875.5	0.21%					15	3	0.86	TCLSLT
ABB076_2-12	12	2	6	15465.1	15465.1	0.00%					15	3	0.71	TCLSLT
ABB086_2-12	12	2	6	12982.3	12982.3	0.00%					10	2	0.89	TCLSLT
ABB096_2-12	12	2	6	16050.9	16050.9	0.12%					15	3	1.22	TCLSLT
ABB0012_2-12	12	2	12	26301.0	26301.0	0.07%					33	6	2.60	TCLSLT
ABB0112_2-12	12	2	12	27509.7	27509.7	0.00%					40	7	3.83	TCLSLT
ABB0212_2-12	12	2	12	27436.7	27436.7	0.05%					51	9	12.14	TCLSLT
ABB0312_2-12	12	2	12	31850.2	31850.2	0.00%					52	9	5.82	TCLSLT
ABB0412_2-12	12	2	12	28364.6	28364.6	0.02%					29	5	3.63	TCLSLT
ABB0512_2-12	12	2	12	32200.7	32200.7	0.00%					34	6	4.70	TCLSLT
ABB0612_2-12	12	2	12	27347.7	27347.7	0.00%					29	5	3.04	TCLSLT
ABB0712_2-12	12	2	12	30564.3	30564.3	0.00%					34	6	3.42	TCLSLT
ABB0812_2-12	12	2	12	26745.4	26745.4	0.00%					46	8	4.88	TCLSLT
ABB0912_2-12	12	2	12	31317.8	31317.8	0.00%					57	10	17.42	TCLSLT
ABB0118_2-12	12	2	18	40639.2	40639.2	0.00%					74	10	14.91	TCLSLT
ABB0218_2-12	12	2	18	42006.5	42006.5	0.00%					66	9	28.45	TCLSLT
ABB0318_2-12	12	2	18	46479.3	46479.3	0.01%					90	12	22.74	TCLSLT
ABB0418_2-12	12	2	18	44280.3	44280.3	0.00%					60	8	11.33	TCLSLT
ABB0518_2-12	12	2	18	47455.0	47455.0	0.07%					38	5	10.98	TCLSLT
ABB0618_2-12	12	2	18	40758.7	40758.7	0.00%					44	6	7.71	TCLSLT
ABB0718_2-12	12	2	18	45510.8	45510.8	0.00%					30	4	4.63	TCLSLT
ABB0818_2-12	12	2	18	41451.7	41451.7	0.00%					30	4	9.02	TCLSLT
ABB0918_2-12	12	2	18	47573.6	47573.6	0.02%					82	11	73.12	TCLSLT
ABB006_2-25	25	2	6	29259.2	29259.2	0.14%					10	2	0.96	TCLSLT
ABB016_2-25	25	2	6	30026.3	30026.3	0.24%					15	3	1.70	TCLSLT
ABB026_2-25	25	2	6	28805.8	28805.8	0.11%					25	5	2.60	TCLSLT
ABB036_2-25	25	2	6	30295.8	30295.8	0.07%					15	3	1.92	TCLSLT
ABB046_2-25	25	2	6	31560.1	31560.1	0.06%					15	3	1.73	TCLSLT
ABB056_2-25	25	2	6	31759.1	31759.1	0.04%					15	3	2.52	TCLSLT
ABB066_2-25	25	2	6	27896.2	27896.2	0.00%					10	2	0.76	TCLSLT
ABB076_2-25	25	2	6	31473.4	31473.4	0.11%					35	7	4.08	TCLSLT
ABB086_2-25	25	2	6	32358.5	32358.5	0.02%					15	3	1.79	TCLSLT
ABB096_2-25	25	2	6	33494.3	33494.3	0.08%					15	3	2.35	TCLSLT
ABB0012_2-25	25	2	12	58331.0	58331.0	0.01%					34	6	7.55	TCLSLT
ABB0112_2-25	25	2	12	61087.0	61087.0	0.00%					51	9	16.99	TCLSLT
ABB0212_2-25	25	2	12	56456.6	56456.6	0.02%					46	8	11.90	TCLSLT
ABB0312_2-25	25	2	12	59380.7	59380.7	0.05%					29	5	18.43	TCLSLT
ABB0412_2-25	25	2	12	59859.1	59859.1	0.00%					58	10	8.45	TCLSLT
ABB0512_2-25	25	2	12	65386.6	65386.6	0.03%					40	7	27.46	TCLSLT
ABB0612_2-25	25	2	12	57277.3	57277.3	0.00%					28	5	2.45	TCLSLT
ABB0712_2-25	25	2	12	62945.3	62945.3	0.02%					63	11	23.15	TCLSLT
ABB0812_2-25	25	2	12	63121.6	63121.6	0.00%					52	9	29.70	TCLSLT
ABB0912_2-25	25	2	12	64148.1	64148.1	0.00%					40	7	16.72	TCLSLT
ABB0018_2-25	25	2	18	87109.7	87109.7	0.01%					38	5	20.75	TCLSLT
ABB0118_2-25	25	2	18	88772.6	88772.6	0.02%					38	5	25.52	TCLSLT
ABB0218_2-25	25	2	18	83520.4	83520.4	0.00%					84	11	29.04	TCLSLT
ABB0318_2-25	25	2	18	91583.8	91583.8	0.00%					38	5	55.14	TCLSLT
ABB0418_2-25	25	2	18	90841.8	90841.8	0.00%					60	8	23.41	TCLSLT
ABB0518_2-25	25	2	18	95613.6	95613.6	0.01%					90	12	243.95	TCLSLT
ABB0618_2-25	25	2	18	83618.8	83618.8	0.00%					36	5	6.41	TCLSLT
ABB0718_2-25	25	2	18	92457.4	92457.4	0.01%					60	8	83.44	TCLSLT
ABB0818_2-25	25	2	18	91834.7	91834.7	0.01%					38	5	58.59	TCLSLT
ABB0918_2-25	25	2	18	93427.6	93427.6	0.01%					38	5	34.66	TCLSLT
ABB006_2-50	50	2	6	58845.1	58845.1	0.00%					10	2	1.76	TCLSLT
ABB016_2-50	50	2	6	60378.9	60378.9	0.01%					10	2	2.06	TCLSLT
ABB026_2-50	50	2	6	56441.4	56441.4	0.02%					10	2	3.50	TCLSLT
ABB036_2-50	50	2	6	59469.3	59469.3	0.01%					10	2	2.08	TCLSLT
ABB046_2-50	50	2	6	61238.1	61238.1	0.04%					15	3	5.11	TCLSLT
ABB056_2-50	50	2	6	59593.3	59593.3	0.07%					10	2	2.42	TCLSLT
ABB066_2-50	50	2	6	56177.9	56177.9	0.01%					20	4	2.84	TCLSLT
ABB076_2-50	50	2	6	59134.5	59134.5	0.02%					10	2	2.65	TCLSLT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB086_2-50	50	2	6	60205.4	60205.4	0.03%					15	3	3.43	TCLSLT
ABB096_2-50	50	2	6	60810.4	60810.4	0.01%					15	3	2.48	TCLSLT
ABB0012_2-50	50	2	12	117391.8	117391.8	0.00%					17	3	6.20	TCLSLT
ABB0112_2-50	50	2	12	119972.8	119972.8	0.00%					28	5	6.57	TCLSLT
ABB0212_2-50	50	2	12	114329.9	114329.9	0.00%					40	7	32.47	TCLSLT
ABB0312_2-50	50	2	12	120107.7	120107.7	0.00%					40	7	11.58	TCLSLT
ABB0412_2-50	50	2	12	122589.1	122589.1	0.01%					51	9	28.58	TCLSLT
ABB0512_2-50	50	2	12	119633.2	119633.2	0.01%					46	8	29.06	TCLSLT
ABB0612_2-50	50	2	12	113743.2	113743.2	0.01%					34	6	8.31	TCLSLT
ABB0712_2-50	50	2	12	115022.5	115022.5	0.01%					34	6	29.34	TCLSLT
ABB0812_2-50	50	2	12	115706.4	115706.4	0.01%					63	11	49.86	TCLSLT
ABB0912_2-50	50	2	12	122636.8	122636.8	0.01%					57	10	17.37	TCLSLT
ABB0018_2-50	50	2	18	175822.3	175822.3	0.00%					22	3	8.05	TCLSLT
ABB0118_2-50	50	2	18	178899.1	178899.1	0.00%					22	3	15.21	TCLSLT
ABB0218_2-50	50	2	18	170072.5	170072.5	0.00%					60	8	78.39	TCLSLT
ABB0318_2-50	50	2	18	181255.1	181255.1	0.01%					38	5	59.14	TCLSLT
ABB0418_2-50	50	2	18	182950.4	182950.4	0.00%					58	8	219.38	TCLSLT
ABB0518_2-50	50	2	18	181347.2	181347.2	0.00%					36	5	46.59	TCLSLT
ABB0618_2-50	50	2	18	171902.0	171902.0	0.00%					58	8	21.22	TCLSLT
ABB0718_2-50	50	2	18	172677.2	172677.2	0.00%					44	6	52.61	TCLSLT
ABB0818_2-50	50	2	18	173944.6	173944.6	0.00%					38	5	41.72	TCLSLT
ABB0918_2-50	50	2	18	183303.7	183303.7	0.00%					46	6	80.07	TCLSLT
ABB006_4-6	6	4	6	6464.9	6464.9	0.11%					15	3	1.06	TCLSLT
ABB016_4-6	6	4	6	7416.4	7416.4	0.00%					20	4	1.85	TCLSLT
ABB026_4-6	6	4	6	7463.2	7463.2	0.00%					15	3	1.06	TCLSLT
ABB036_4-6	6	4	6	6864.4	6864.4	0.65%					15	3	1.23	TCLSLT
ABB046_4-6	6	4	6	5696.2	5696.2	0.25%					15	3	1.17	TCLSLT
ABB056_4-6	6	4	6	8082.9	8082.9	0.79%					20	4	2.80	TCLSLT
ABB066_4-6	6	4	6	6518.7	6518.7	0.22%					10	2	0.90	TCLSLT
ABB076_4-6	6	4	6	7826.7	7826.7	0.03%					15	3	0.93	TCLSLT
ABB086_4-6	6	4	6	5927.7	5927.7	0.18%					15	3	0.93	TCLSLT
ABB096_4-6	6	4	6	8629.8	8629.8	0.22%					15	3	1.23	TCLSLT
ABB0012_4-6	6	4	12	11951.3	11951.3	0.00%					23	4	3.08	TCLSLT
ABB0112_4-6	6	4	12	15530.8	15530.8	0.00%					46	8	10.35	TCLSLT
ABB0212_4-6	6	4	12	14793.4	14793.4	0.00%					51	9	6.81	TCLSLT
ABB0312_4-6	6	4	12	14731.8	14731.8	0.09%					29	5	4.05	TCLSLT
ABB0412_4-6	6	4	12	13197.0	13197.0	0.00%					41	7	10.02	TCLSLT
ABB0512_4-6	6	4	12	16265.5	16265.5	0.05%					51	9	17.02	TCLSLT
ABB0612_4-6	6	4	12	12954.4	12954.4	0.00%					51	9	5.83	TCLSLT
ABB0712_4-6	6	4	12	14884.5	14884.5	0.00%					29	5	4.23	TCLSLT
ABB0812_4-6	6	4	12	12604.2	12604.2	0.05%					34	6	4.20	TCLSLT
ABB0912_4-6	6	4	12	15131.0	15131.0	0.09%					34	6	5.83	TCLSLT
ABB0018_4-6	6	4	18	18918.2	18918.2	0.00%					30	4	12.87	TCLSLT
ABB0118_4-6	6	4	18	22174.7	22174.7	0.07%					60	8	25.07	TCLSLT
ABB0218_4-6	6	4	18	21734.9	21734.9	0.00%					52	7	17.34	TCLSLT
ABB0318_4-6	6	4	18	22551.6	22551.6	0.04%					54	7	14.09	TCLSLT
ABB0418_4-6	6	4	18	20284.2	20284.2	0.00%					74	10	18.73	TCLSLT
ABB0518_4-6	6	4	18	24115.8	24115.8	0.11%					62	8	52.10	TCLSLT
ABB0618_4-6	6	4	18	20158.6	20158.6	0.01%					30	4	17.48	TCLSLT
ABB0718_4-6	6	4	18	22690.3	22690.3	0.00%					52	7	10.78	TCLSLT
ABB0818_4-6	6	4	18	18406.8	18406.8	0.00%					38	5	9.93	TCLSLT
ABB0918_4-6	6	4	18	22391.8	22391.8	0.00%					46	6	10.65	TCLSLT
ABB006_4-12	12	4	6	13448.6	13448.6	0.02%					10	2	1.74	TCLSLT
ABB016_4-12	12	4	6	15682.2	15682.2	0.20%					15	3	4.04	TCLSLT
ABB026_4-12	12	4	6	13247.3	13247.3	0.09%					15	3	2.08	TCLSLT
ABB036_4-12	12	4	6	12518.8	12518.8	0.41%					15	3	3.08	TCLSLT
ABB046_4-12	12	4	6	14484.3	14484.3	0.00%					15	3	2.25	TCLSLT
ABB056_4-12	12	4	6	14352.4	14352.4	0.08%					15	3	3.05	TCLSLT
ABB066_4-12	12	4	6	12697.2	12697.2	0.00%					20	4	1.18	TCLSLT
ABB076_4-12	12	4	6	12606.8	12606.8	0.01%					15	3	2.01	TCLSLT
ABB086_4-12	12	4	6	14773.6	14773.6	0.02%					20	4	2.07	TCLSLT
ABB096_4-12	12	4	6	13433.2	13433.2	0.37%					25	5	3.51	TCLSLT
ABB0012_4-12	12	4	12	25174.1	25174.1	0.00%					40	7	37.14	TCLSLT
ABB0112_4-12	12	4	12	29037.6	29037.6	-0.02%					52	9	74.79	TCLSLT
ABB0212_4-12	12	4	12	26753.4	26753.4	0.01%					63	11	28.07	TCLSLT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0312_4-12	12	4	12	25865.1	25865.1	0.03%					74	13	36.27	TCLSLT
ABB0412_4-12	12	4	12	27599.0	27599.0	0.00%					57	10	18.67	TCLSLT
ABB0512_4-12	12	4	12	28241.2	28241.2	-0.01%					57	10	63.65	TCLSLT
ABB0612_4-12	12	4	12	24754.1	24754.1	0.00%					46	8	5.19	TCLSLT
ABB0712_4-12	12	4	12	26646.6	26646.6	0.00%					57	10	20.89	TCLSLT
ABB0812_4-12	12	4	12	28377.3	28377.3	0.02%					40	7	12.27	TCLSLT
ABB0912_4-12	12	4	12	29008.1	29008.1	-0.02%					63	11	113.19	TCLSLT
ABB0018_4-12	12	4	18	38905.1	38905.1	-0.01%					60	8	101.93	TCLSLT
ABB0118_4-12	12	4	18	42628.3	42628.3	-0.07%					76	10	136.88	TCLSLT
ABB0218_4-12	12	4	18	39696.5	39696.5	0.00%					52	7	40.05	TCLSLT
ABB0318_4-12	12	4	18	40308.1	40308.1	-0.03%					38	5	106.21	TCLSLT
ABB0418_4-12	12	4	18	41080.0	41080.0	0.01%					68	9	44.58	TCLSLT
ABB0518_4-12	12	4	18	41421.6	41421.6	0.02%					30	4	41.60	TCLSLT
ABB0618_4-12	12	4	18	37393.7	37393.7	0.00%					38	5	11.91	TCLSLT
ABB0718_4-12	12	4	18	41704.4	41704.4	0.03%					60	8	74.28	TCLSLT
ABB0818_4-12	12	4	18	43223.1	43223.1	0.07%					60	8	44.29	TCLSLT
ABB0918_4-12	12	4	18	42110.9	42110.9	0.02%					66	9	161.95	TCLSLT
ABB006_4-25	25	4	6	25711.8	25711.8	0.02%					20	4	3.44	TCLSLT
ABB016_4-25	25	4	6	29649.4	29649.4	0.08%					15	3	2.95	TCLSLT
ABB026_4-25	25	4	6	27869.3	27869.3	0.06%					15	3	19.17	TCLSLT
ABB036_4-25	25	4	6	26302.8	26302.8	0.04%					15	3	9.33	TCLSLT
ABB046_4-25	25	4	6	26760.7	26760.7	0.01%					15	3	2.05	TCLSLT
ABB056_4-25	25	4	6	30269.3	30269.3	0.00%					25	5	4.41	TCLSLT
ABB066_4-25	25	4	6	25487.5	25487.5	0.06%					20	4	2.47	TCLSLT
ABB076_4-25	25	4	6	27323.4	27323.4	0.01%					15	3	11.91	TCLSLT
ABB086_4-25	25	4	6	26363.1	26363.1	0.05%					10	2	2.41	TCLSLT
ABB096_4-25	25	4	6	28096.7	28096.7	0.07%					20	4	5.47	TCLSLT
ABB0012_4-25	25	4	12	54090.1	54090.1	-0.02%					35	6	93.47	TCLSLT
ABB0112_4-25	25	4	12	56537.5	56537.5	0.00%					40	7	25.82	TCLSLT
ABB0212_4-25	25	4	12	53605.3	53605.3	0.00%					74	13	168.18	TCLSLT
ABB0312_4-25	25	4	12	54460.3	54460.3	0.01%					41	7	73.91	TCLSLT
ABB0412_4-25	25	4	12	55098.5	55098.5	0.00%					28	5	10.72	TCLSLT
ABB0512_4-25	25	4	12	57291.5	57291.5	0.00%					29	5	47.84	TCLSLT
ABB0612_4-25	25	4	12	50859.0	50859.0	0.00%					46	8	13.23	TCLSLT
ABB0712_4-25	25	4	12	55957.5	55957.5	0.02%					74	13	193.63	TCLSLT
ABB0812_4-25	25	4	12	54344.9	54344.9	0.02%					52	9	70.59	TCLSLT
ABB0912_4-25	25	4	12	55256.5	55256.5	0.00%					40	7	88.22	TCLSLT
ABB0018_4-25	25	4	18	78505.1	78505.1	0.00%					68	9	194.79	TCLSLT
ABB0118_4-25	25	4	18	84166.3	84166.3	0.00%					60	8	85.91	TCLSLT
ABB0218_4-25	25	4	18	81396.6	81396.6	0.02%					54	7	263.33	TCLSLT
ABB0318_4-25	25	4	18	80980.2	80980.2	0.00%					68	9	205.68	TCLSLT
ABB0418_4-25	25	4	18	83484.4	83484.4	0.01%					30	4	17.21	TCLSLT
ABB0518_4-25	25	4	18	84734.3	84734.3	0.08%					90	12	190.14	TCLSLT
ABB0618_4-25	25	4	18	77583.7	77583.7	0.01%					38	5	17.75	TCLSLT
ABB0718_4-25	25	4	18	83244.7	83244.7	0.00%					90	12	415.43	TCLSLT
ABB0818_4-25	25	4	18	78741.5	78741.5	0.00%					74	10	81.11	TCLSLT
ABB0918_4-25	25	4	18	82822.8	82822.8	0.03%					74	10	264.88	TCLSLT
ABB006_4-50	50	4	6	54785.4	54785.4	0.01%					10	2	7.10	TCLSLT
ABB016_4-50	50	4	6	55555.5	55555.5	0.02%					10	2	5.76	TCLSLT
ABB026_4-50	50	4	6	56248.9	56248.9	0.03%					15	3	10.81	TCLSLT
ABB036_4-50	50	4	6	55563.6	55563.6	0.05%					15	3	19.04	TCLSLT
ABB046_4-50	50	4	6	57291.6	57291.6	0.04%					20	4	53.29	TCLSLT
ABB056_4-50	50	4	6	57508.3	57508.3	0.00%					15	3	6.90	TCLSLT
ABB066_4-50	50	4	6	52982.6	52982.6	0.00%					10	2	3.74	TCLSLT
ABB076_4-50	50	4	6	51877.7	51877.7	0.04%					20	4	8.35	TCLSLT
ABB086_4-50	50	4	6	53093.9	53093.9	0.00%					15	3	6.90	TCLSLT
ABB096_4-50	50	4	6	60295.3	60295.3	0.04%					20	4	6.95	TCLSLT
ABB0012_4-50	50	4	12	110823.4	110823.4	0.00%					46	8	117.76	TCLSLT
ABB0112_4-50	50	4	12	108635.6	108635.6	0.01%					51	9	64.10	TCLSLT
ABB0212_4-50	50	4	12	108286.6	108286.6	0.00%					58	10	100.55	TCLSLT
ABB0312_4-50	50	4	12	110660.0	110660.0	0.04%					46	8	155.14	TCLSLT
ABB0412_4-50	50	4	12	110161.5	110161.5	0.01%					51	9	147.18	TCLSLT
ABB0512_4-50	50	4	12	112145.0	112145.0	0.01%					40	7	38.53	TCLSLT
ABB0612_4-50	50	4	12	104150.2	104150.2	0.00%					34	6	17.09	TCLSLT
ABB0712_4-50	50	4	12	107044.7	107044.7	0.00%					45	8	141.28	TCLSLT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0812_4-50	50	4	12	106680.7	106680.7	0.00%					40	7	31.14	TCLSLT
ABB0912_4-50	50	4	12	114586.7	114586.7	-0.02%					45	8	87.53	TCLSLT
ABB0018_4-50	50	4	18	160422.5	160422.5	0.00%					44	6	133.39	TCLSLT
ABB0118_4-50	50	4	18	162040.4	162040.4	0.00%					38	5	48.18	TCLSLT
ABB0218_4-50	50	4	18	163370.1	163370.1	0.00%					52	7	141.97	TCLSLT
ABB0318_4-50	50	4	18	163922.0	163922.0	-0.01%					76	10	421.92	TCLSLT
ABB0418_4-50	50	4	18	167277.8	167277.8	-0.01%					60	8	328.33	TCLSLT
ABB0518_4-50	50	4	18	168377.2	168377.2	0.00%					60	8	116.48	TCLSLT
ABB0618_4-50	50	4	18	156607.2	156607.2	0.01%					52	7	90.73	TCLSLT
ABB0718_4-50	50	4	18	162365.4	162365.4	0.02%					82	11	410.70	TCLSLT
ABB0818_4-50	50	4	18	157550.2	157550.2	0.00%					60	8	78.22	TCLSLT
ABB0918_4-50	50	4	18	168763.8	168763.8	0.01%					38	5	115.75	TCLSLT
ABB006_6-6	6	6	6	5808.9	5808.9	0.00%					15	3	1.46	TCLSLT
ABB026_6-6	6	6	6	7116.9	7116.9	0.21%					15	3	2.06	TCLSLT
ABB036_6-6	6	6	6	7657.3	7657.3	0.24%					20	4	1.83	TCLSLT
ABB046_6-6	6	6	6	8285.5	8285.5	0.26%					15	3	2.60	TCLSLT
ABB056_6-6	6	6	6	8227.2	8227.2	0.29%					20	4	2.22	TCLSLT
ABB066_6-6	6	6	6	6868.9	6868.9	0.01%					15	3	1.66	TCLSLT
ABB076_6-6	6	6	6	7964.3	7964.3	0.27%					15	3	2.13	TCLSLT
ABB086_6-6	6	6	6	6994.4	6994.4	0.87%					25	5	3.41	TCLSLT
ABB096_6-6	6	6	6	7804.5	7804.5	0.22%					15	3	2.71	TCLSLT
ABB0012_6-6	6	6	12	12392.7	12392.7	0.00%					40	7	5.07	TCLSLT
ABB0212_6-6	6	6	12	14582.1	14582.1	0.00%					40	7	10.26	TCLSLT
ABB0312_6-6	6	6	12	15080.7	15080.7	0.01%					29	5	6.62	TCLSLT
ABB0412_6-6	6	6	12	15450.2	15450.2	0.00%					40	7	12.82	TCLSLT
ABB0512_6-6	6	6	12	15020.3	15020.3	0.01%					34	6	6.91	TCLSLT
ABB0612_6-6	6	6	12	13133.9	13133.9	0.00%					29	5	12.43	TCLSLT
ABB0712_6-6	6	6	12	15510.8	15510.8	0.00%					52	9	10.18	TCLSLT
ABB0812_6-6	6	6	12	13031.7	13031.7	0.12%					57	10	14.12	TCLSLT
ABB0912_6-6	6	6	12	14772.9	14772.9	0.00%					70	12	19.98	TCLSLT
ABB0018_6-6	6	6	18	18385.4	18385.4	0.00%					38	5	15.39	TCLSLT
ABB0218_6-6	6	6	18	20319.5	20319.5	0.01%					46	6	20.16	TCLSLT
ABB0318_6-6	6	6	18	21090.0	21090.0	0.00%					38	5	27.74	TCLSLT
ABB0418_6-6	6	6	18	23158.2	23158.2	0.00%					52	7	40.44	TCLSLT
ABB0518_6-6	6	6	18	22886.3	22886.3	0.03%					38	5	32.33	TCLSLT
ABB0618_6-6	6	6	18	20655.6	20655.6	0.00%					66	9	42.98	TCLSLT
ABB0718_6-6	6	6	18	22430.9	22430.9	0.05%					38	5	22.14	TCLSLT
ABB0818_6-6	6	6	18	20810.8	20810.8	0.11%					60	8	35.52	TCLSLT
ABB0918_6-6	6	6	18	22350.8	22350.8	0.02%					46	6	63.45	TCLSLT
ABB006_6-12	12	6	6	12935.4	12935.4	0.07%					20	4	3.92	TCLSLT
ABB016_6-12	12	6	6	13333.1	13333.1	0.03%					25	5	6.10	TCLSLT
ABB026_6-12	12	6	6	12268.6	12268.6	0.24%					20	4	3.52	TCLSLT
ABB036_6-12	12	6	6	13147.8	13147.8	0.00%					30	6	3.34	TCLSLT
ABB046_6-12	12	6	6	12872.3	12872.3	0.07%					15	3	2.61	TCLSLT
ABB056_6-12	12	6	6	12514.8	12514.8	0.44%					15	3	2.26	TCLSLT
ABB066_6-12	12	6	6	11861.4	11861.4	0.13%					20	4	3.73	TCLSLT
ABB076_6-12	12	6	6	13880.3	13880.3	0.16%					20	4	9.48	TCLSLT
ABB086_6-12	12	6	6	13708.0	13708.0	0.00%					20	4	5.68	TCLSLT
ABB096_6-12	12	6	6	14613.5	14613.5	0.04%					20	4	17.34	TCLSLT
ABB0012_6-12	12	6	12	24484.2	24484.2	0.00%					46	8	19.28	TCLSLT
ABB0112_6-12	12	6	12	26026.6	26026.6	0.05%					29	5	28.40	TCLSLT
ABB0212_6-12	12	6	12	24528.5	24528.5	0.00%					40	7	46.65	TCLSLT
ABB0312_6-12	12	6	12	26936.6	26936.6	0.06%					40	7	22.10	TCLSLT
ABB0412_6-12	12	6	12	25240.2	25240.2	0.00%					40	7	12.84	TCLSLT
ABB0512_6-12	12	6	12	26646.9	26646.9	0.00%					46	8	24.29	TCLSLT
ABB0612_6-12	12	6	12	23906.1	23906.1	0.02%					41	7	16.97	TCLSLT
ABB0712_6-12	12	6	12	28616.9	28616.9	0.06%					57	10	149.53	TCLSLT
ABB0812_6-12	12	6	12	26493.4	26493.4	0.04%					69	12	97.82	TCLSLT
ABB0912_6-12	12	6	12	27767.8	27767.8	0.03%					40	7	36.45	TCLSLT
ABB0018_6-12	12	6	18	36869.7	36869.7	0.00%					38	5	30.53	TCLSLT
ABB0118_6-12	12	6	18	41708.6	41708.6	0.00%					68	9	86.89	TCLSLT
ABB0218_6-12	12	6	18	37578.9	37578.9	0.03%					38	5	142.92	TCLSLT
ABB0318_6-12	12	6	18	38927.9	38927.9	0.01%					60	8	44.98	TCLSLT
ABB0418_6-12	12	6	18	37300.9	37300.9	0.00%					30	4	20.73	TCLSLT
ABB0518_6-12	12	6	18	41016.8	41016.8	0.00%					52	7	74.91	TCLSLT

Continua na Próxima Página

Tabela X - Continuação da tabela

Instância	N	R	M	LI	LS	gap	HCG _{time}	TH _{time}	Heur. Const.	FO _{tempo}	FO _{iter}	FO _{rounds}	Tempo Total	Classe
ABB0618_6-12	12	6	18	37887.5	37887.5	0.03%					52	7	113.15	TCLSLT
ABB0718_6-12	12	6	18	42279.3	42279.3	-0.03%					60	8	192.82	TCLSLT
ABB0818_6-12	12	6	18	40322.7	40322.7	0.01%					30	4	203.43	TCLSLT
ABB0918_6-12	12	6	18	41859.6	41859.6	-0.04%					74	10	230.43	TCLSLT
ABB006_6-25	25	6	6	25939.1	25939.1	0.11%					20	4	38.00	TCLSLT
ABB016_6-25	25	6	6	25654.1	25654.1	0.04%					20	4	30.88	TCLSLT
ABB026_6-25	25	6	6	26944.3	26944.3	0.00%					20	4	12.34	TCLSLT
ABB036_6-25	25	6	6	27219.0	27219.0	0.08%					25	5	56.91	TCLSLT
ABB046_6-25	25	6	6	28821.0	28821.0	0.02%					25	5	57.03	TCLSLT
ABB056_6-25	25	6	6	26517.4	26517.4	0.03%					15	3	16.44	TCLSLT
ABB066_6-25	25	6	6	25489.3	25489.3	0.04%					15	3	3.92	TCLSLT
ABB076_6-25	25	6	6	28154.3	28154.3	0.07%					15	3	8.81	TCLSLT
ABB086_6-25	25	6	6	26877.3	26877.3	0.02%					20	4	40.13	TCLSLT
ABB096_6-25	25	6	6	26598.0	26598.0	0.10%					15	3	15.61	TCLSLT
ABB0012_6-25	25	6	12	52861.4	52861.4	0.00%					40	7	145.71	TCLSLT
ABB0112_6-25	25	6	12	53128.1	53128.1	0.05%					40	7	218.03	TCLSLT
ABB0212_6-25	25	6	12	54294.1	54294.1	0.00%					52	9	118.58	TCLSLT
ABB0312_6-25	25	6	12	53179.0	53179.0	0.06%					41	7	290.00	TCLSLT
ABB0412_6-25	25	6	12	56441.2	56441.2	-0.02%					57	10	347.98	TCLSLT
ABB0512_6-25	25	6	12	52139.8	52139.8	0.01%					63	11	173.72	TCLSLT
ABB0612_6-25	25	6	12	51221.9	51221.9	0.00%					29	5	25.54	TCLSLT
ABB0712_6-25	25	6	12	53109.0	53109.0	0.00%					57	10	176.80	TCLSLT
ABB0812_6-25	25	6	12	51562.6	51562.6	0.01%					46	8	97.45	TCLSLT
ABB0912_6-25	25	6	12	54000.6	54000.6	0.00%					29	5	78.00	TCLSLT
ABB0018_6-25	25	6	18	77145.1	77145.1	-0.01%					68	9	500.86	TCLSLT
ABB0118_6-25	25	6	18	79992.3	79992.3	-0.03%					76	10	598.36	TCLSLT
ABB0218_6-25	25	6	18	82246.1	82246.1	0.02%					38	5	305.14	TCLSLT
ABB0318_6-25	25	6	18	80841.0	80865.3	-0.02%					60	8	635.57	TCLSLT
ABB0418_6-25	25	6	18	85495.2	85534.9	0.00%					67	9	625.65	TCLSLT
ABB0518_6-25	25	6	18	81518.8	81518.8	-0.04%					60	8	423.54	TCLSLT
ABB0618_6-25	25	6	18	76562.2	76562.2	0.00%					74	10	114.66	TCLSLT
ABB0718_6-25	25	6	18	78318.3	78318.3	0.01%					54	7	384.40	TCLSLT
ABB0818_6-25	25	6	18	75624.5	75624.5	0.01%					68	9	291.41	TCLSLT
ABB0918_6-25	25	6	18	81840.7	81840.7	0.02%					46	6	261.07	TCLSLT
ABB006_6-50	50	6	6	50834.7	50834.7	0.02%					15	3	32.87	TCLSLT
ABB016_6-50	50	6	6	50941.2	50941.2	0.02%					25	5	61.43	TCLSLT
ABB026_6-50	50	6	6	52524.0	52524.0	0.00%					15	3	49.17	TCLSLT
ABB036_6-50	50	6	6	51937.3	51937.3	0.08%					20	4	33.99	TCLSLT
ABB046_6-50	50	6	6	54390.5	54390.5	0.02%					25	5	111.60	TCLSLT
ABB056_6-50	50	6	6	53099.3	53099.3	0.04%					15	3	38.01	TCLSLT
ABB066_6-50	50	6	6	52430.9	52430.9	-0.01%					20	4	56.64	TCLSLT
ABB076_6-50	50	6	6	54128.8	54128.8	0.00%					15	3	8.46	TCLSLT
ABB086_6-50	50	6	6	51234.6	51234.6	0.04%					20	4	47.71	TCLSLT
ABB096_6-50	50	6	6	50903.8	50903.8	0.04%					20	4	43.70	TCLSLT
ABB0012_6-50	50	6	12	102827.5	102827.5	0.02%					98	17	431.26	TCLSLT
ABB0112_6-50	50	6	12	101933.0	101933.0	0.00%					52	9	219.07	TCLSLT
ABB0212_6-50	50	6	12	105733.4	105733.4	-0.02%					76	13	540.88	TCLSLT
ABB0312_6-50	50	6	12	103000.3	103000.3	0.01%					80	14	329.94	TCLSLT
ABB0412_6-50	50	6	12	110344.4	110344.4	0.01%					41	7	283.40	TCLSLT
ABB0512_6-50	50	6	12	105923.3	105923.3	0.00%					58	10	162.12	TCLSLT
ABB0612_6-50	50	6	12	102818.7	102919.0	-0.03%					83	15	621.27	TCLSLT
ABB0712_6-50	50	6	12	107885.0	107885.0	0.01%					40	7	219.60	TCLSLT
ABB0812_6-50	50	6	12	100282.4	100282.4	0.01%					74	13	265.13	TCLSLT
ABB0912_6-50	50	6	12	102778.0	102778.0	0.02%					46	8	144.28	TCLSLT
ABB0018_6-50	50	6	18	153478.6	153478.6	0.00%					76	10	632.63	TCLSLT
ABB0118_6-50	50	6	18	151571.1	151571.1	-0.01%					76	10	510.34	TCLSLT
ABB0218_6-50	50	6	18	155229.1	155229.1	0.00%					70	9	600.93	TCLSLT
ABB0318_6-50	50	6	18	154826.9	154826.9	0.00%					54	7	424.30	TCLSLT
ABB0418_6-50	50	6	18	165713.9	165810.9	-0.02%					60	8	647.57	TCLSLT
ABB0518_6-50	50	6	18	156103.2	156119.9	-0.02%					72	10	640.92	TCLSLT
ABB0618_6-50	50	6	18	155414.5	155444.6	-0.02%					63	8	656.83	TCLSLT
ABB0718_6-50	50	6	18	159477.0	159477.0	0.01%					46	6	258.05	TCLSLT
ABB0818_6-50	50	6	18	151705.0	151705.0	0.00%					66	9	542.37	TCLSLT
ABB0918_6-50	50	6	18	154648.3	154648.3	0.00%					62	8	467.89	TCLSLT

