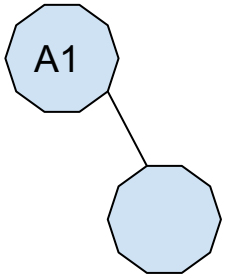
Exercício 3

Intercalação Polifásica usando Seleção por Substituição

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

Fita 2

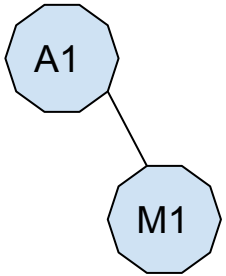
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

Fita 2

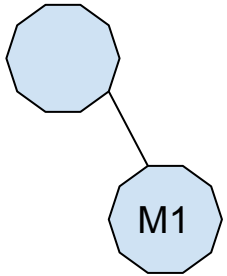
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A

Fita 2

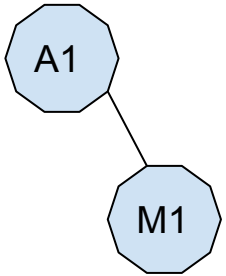
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A

Fita 2

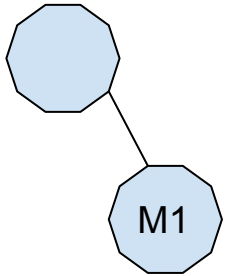
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A

Fita 2

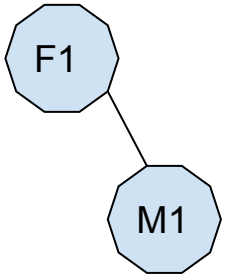
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A

Fita 2

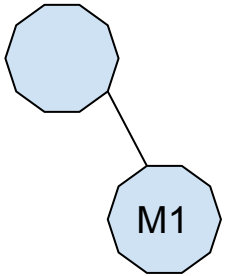
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F

Fita 2

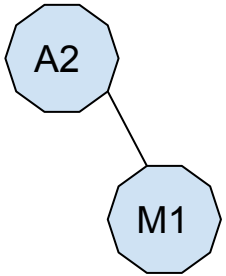
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F

Fita 2

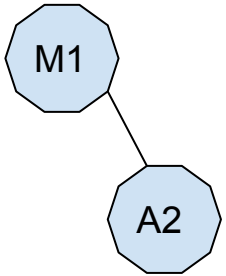
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F

Fita 2

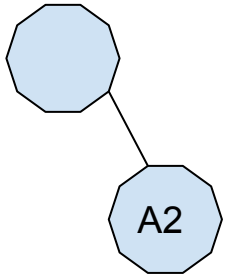
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

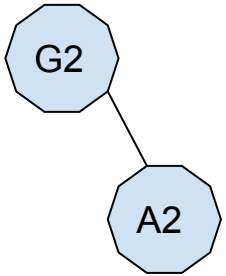
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

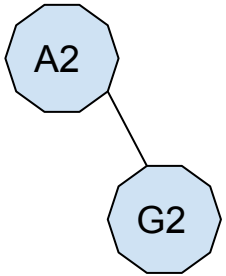
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

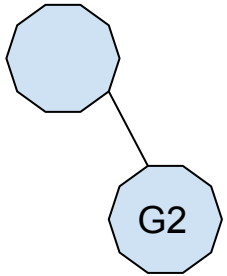
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

A

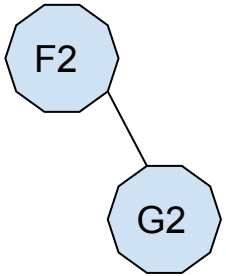
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

A

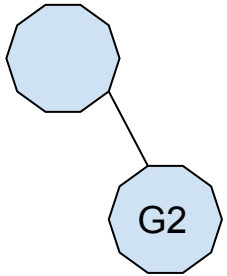
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

A F

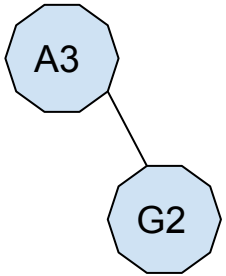
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

A F

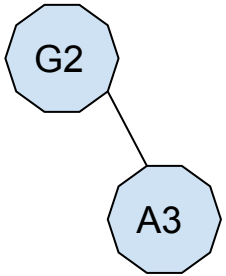
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M

Fita 2

A F

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Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

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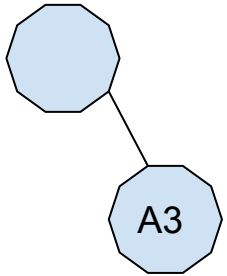

Entrada

Fita 1

A A F M

Fita 2

A F G

Fita 3

Fita 4

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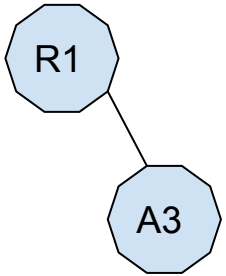

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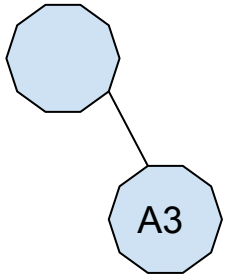

Entrada

Fita 1

A A F M R

Fita 2

A F G

Fita 3

Fita 4

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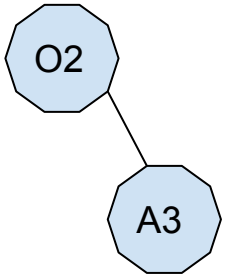

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Fita 1

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Fita 2

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Fita 3

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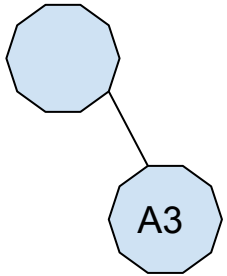

Entrada

Fita 1

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Fita 2

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Fita 3

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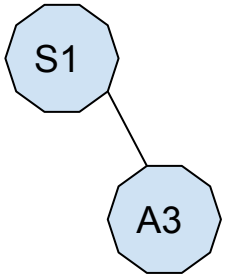

Entrada

Fita 1

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Fita 3

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Heap de 2 posições

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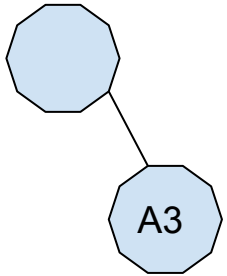

Entrada

Fita 1

A A F M R S

Fita 2

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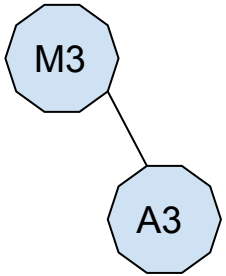
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

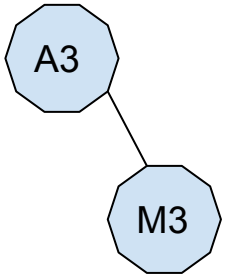
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

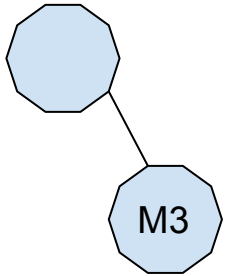
Fita 3

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

Fita 3

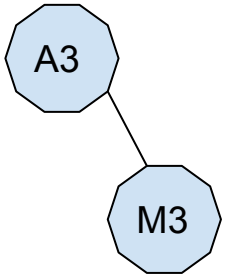
A

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

Fita 3

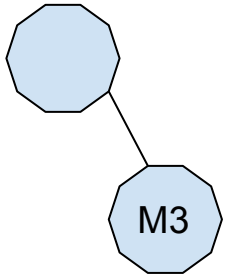
A

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

Fita 3

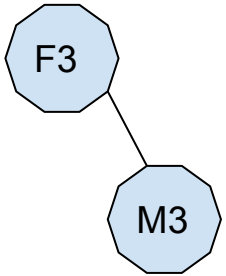
A A

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

Fita 3

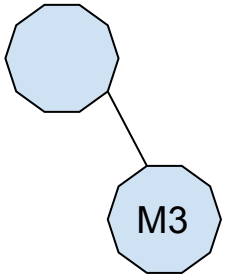
A A

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

Fita 2

A F G O

Fita 3

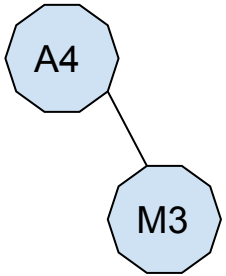
A A F

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

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A F G O

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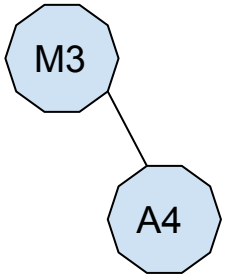
A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S

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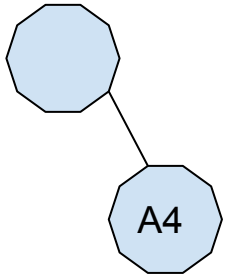

Entrada

Fita 1

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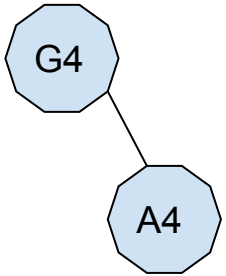

Entrada

Fita 1

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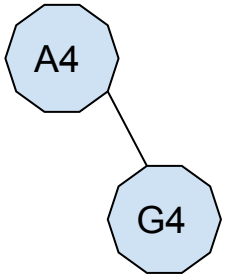


Entrada

Fita 1

A A F M R S

Fita 2

A F G O

Fita 3

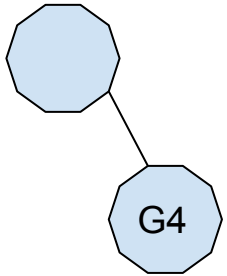
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A

Fita 2

A F G O

Fita 3

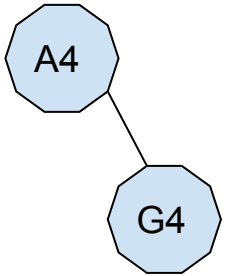
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A

Fita 2

A F G O

Fita 3

A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

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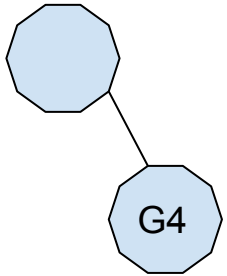


Entrada

Fita 1

A A F M R S | A A

Fita 2

A F G O

Fita 3

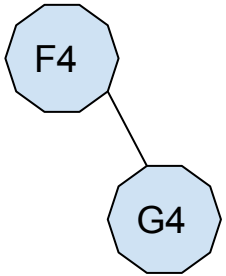
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A

Fita 2

A F G O

Fita 3

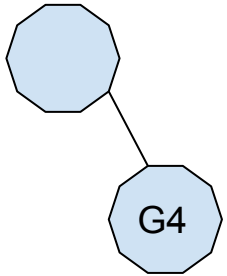
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F

Fita 2

A F G O

Fita 3

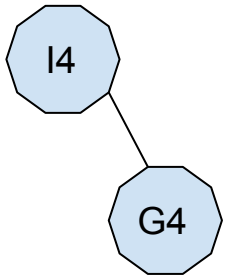
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F

Fita 2

A F G O

Fita 3

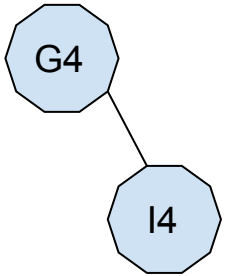
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F

Fita 2

A F G O

Fita 3

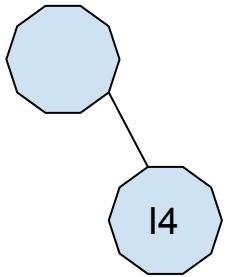
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G

Fita 2

A F G O

Fita 3

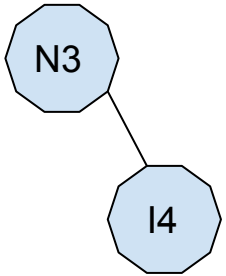
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G

Fita 2

A F G O

Fita 3

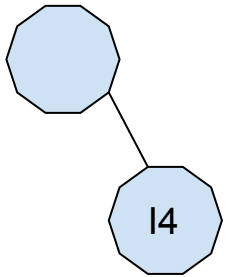
A A F M

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G

Fita 2

A F G O

Fita 3

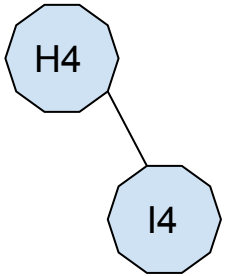
A A F M N

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G

Fita 2

A F G O

Fita 3

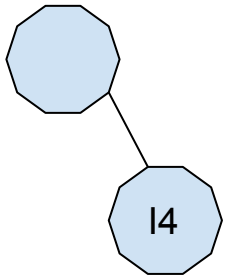
A A F M N

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G H

Fita 2

A F G O

Fita 3

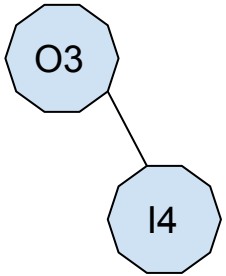
A A F M N

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G H

Fita 2

A F G O

Fita 3

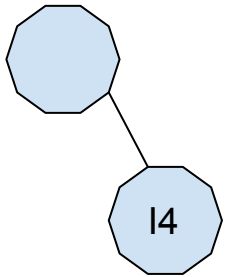
A A F M N

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G H

Fita 2

A F G O

Fita 3

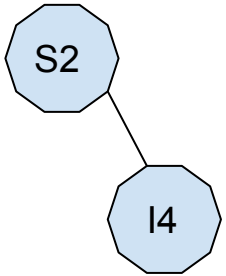
A A F M N O

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G H

Fita 2

A F G O

Fita 3

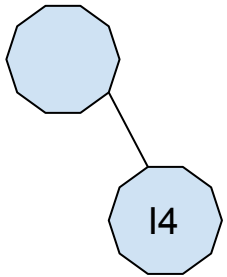
A A F M N O

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 2 posições

Heap Mínimo



Entrada

Fita 1

A A F M R S | A A F G H

Fita 2

A F G O S

Fita 3

A A F M N O

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap de 1 posição

Heap Mínimo

Entrada

Fita 1

A A F M R S | A A F G H

Fita 2

A F G O S

Fita 3

A A F M N O

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

Heap deletado

Heap Mínimo

Entrada

Fita 1

A A F M R S | A A F G H I

Fita 2

A F G O S

Fita 3

A A F M N O

Fita 4

A M A F A G A F A R O S M A F A G A F I N H O S

- **Intercalação balanceada de 3 caminhos**

Entrada

Fita 1

A A F M R S | A A F G H I

Fita 2

A F G O S

Fita 3

A A F M N O

Saída

Fita 4

A A A A A F F F G M M N O O R S S

A M A F A G A F A R O S M A F A G A F I N H O S

- **Intercalação balanceada de 3 caminhos**

Entrada

Fita 1

A A F G H I

Saída

Fita 2

A A A A A A A A F F F F G G H I M M N O O R S S

Fita 4

A A A A A F F F G M M N O O R S S

Fita 3

Desordenado

A M A F A G A F A R O S M A F A G A F I N H O S

Ordenado

Fita 2

A A A A A A A A F F F F G G H I M M N O O R S S