

Ronaldo de Souza Galdino Algoritmo manual REO 2

Método inserção: 6, 16, 23, 25, 35, 47.

Inserção 6

Pilha

Nó

Tamanho: 0

Aberto

O. Criar pilha.

Topo

Próximo

1. Empilhar elementos 5, 10, 2.

Pilha	Nó
Tamanho: 0	aberto: 5
Topo	Próximo

Pilha	Nó
Tamanho: 1	aberto: 5
Topo	Próximo

Pilha	Nó
Tamanho: 1	aberto: 5
Topo	Próximo

Pilha	Nó
Tamanho: 1	aberto: 10
Topo	Próximo

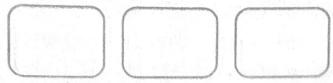
Pilha	Nó
Tamanho: 1	aberto: 10
Topo	Próximo

Pilha	Nó
Tamanho: 2	aberto: 10
Topo	Próximo

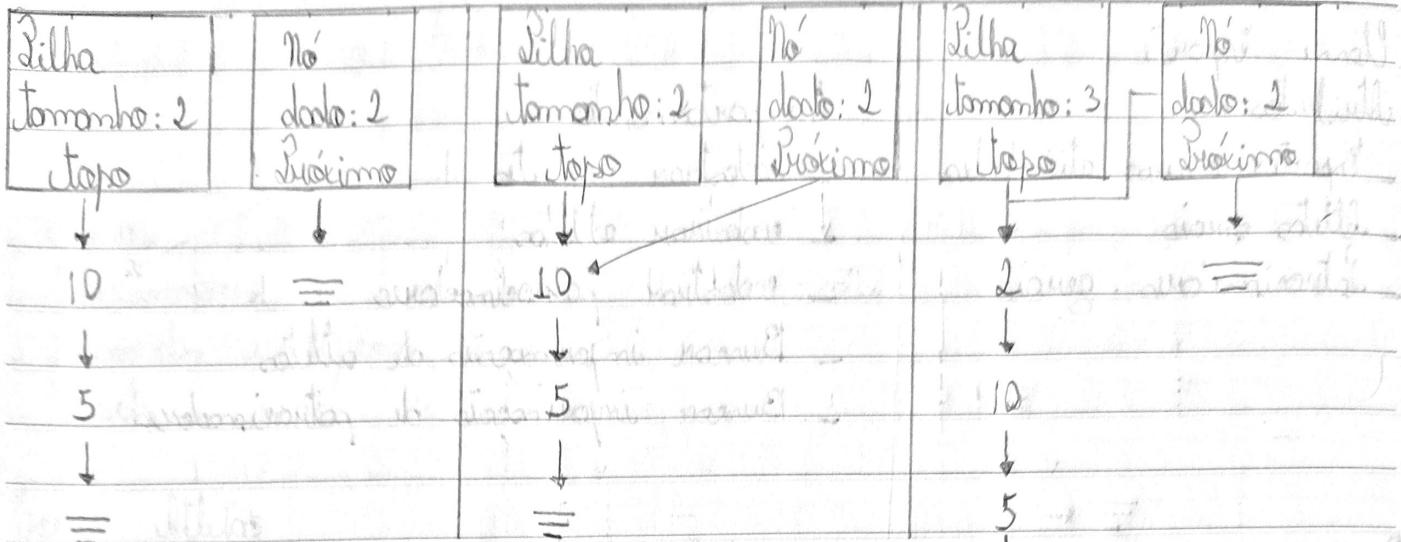


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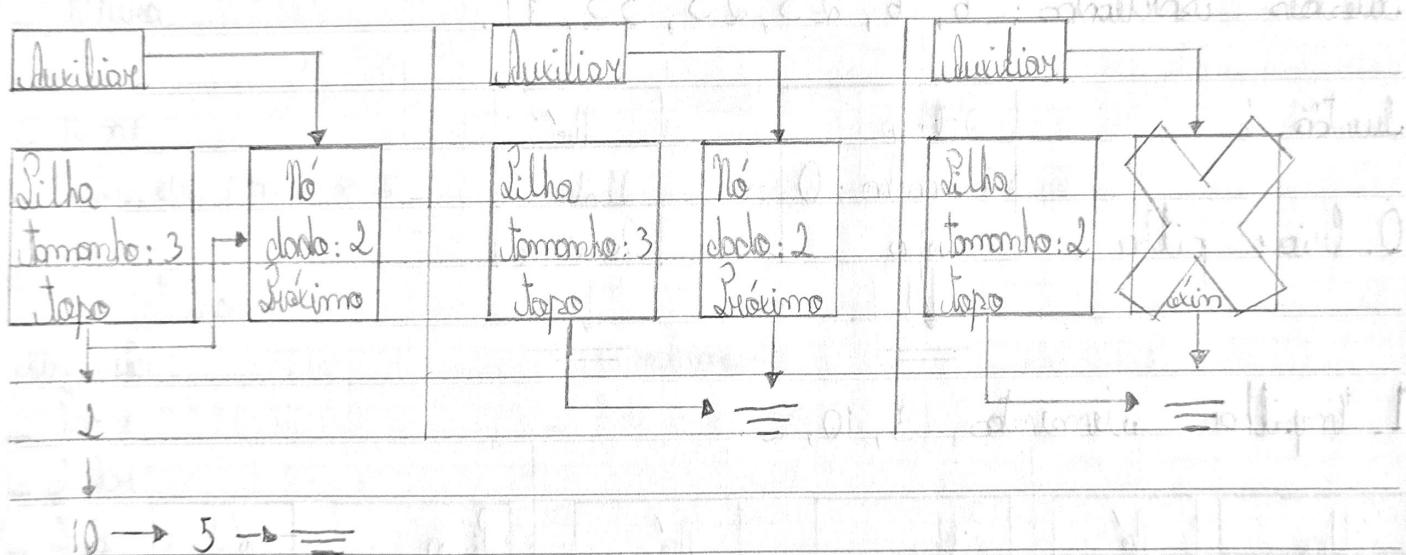
5 → =



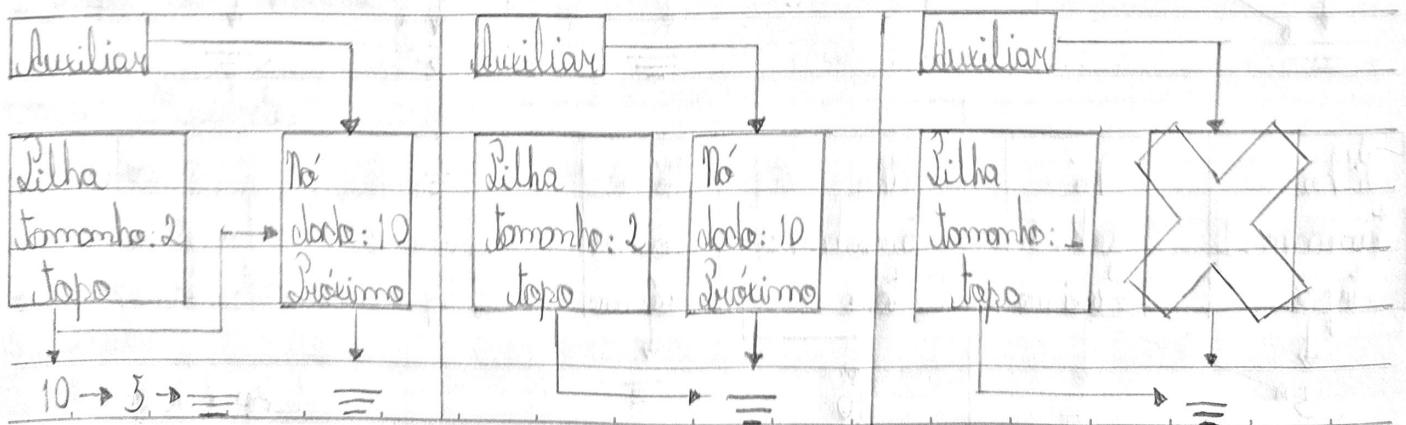
DOM DOM	SEG LUN	TER MAR	QUA MIÉ	QUI JUE	SEX VIE	SÁB SÁB
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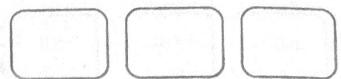
2. Desempilhar



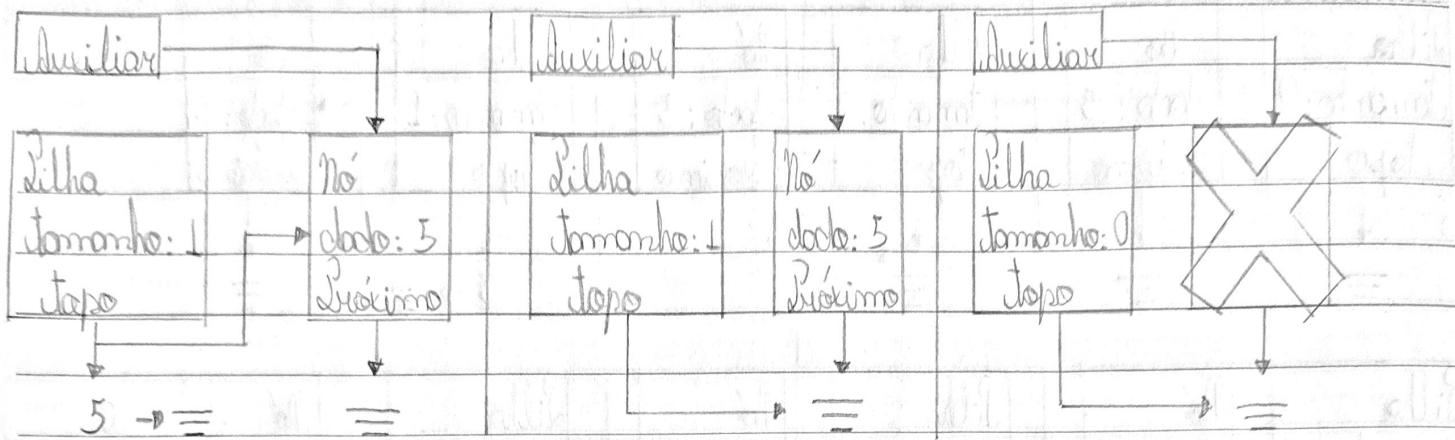
3. Desempilhar



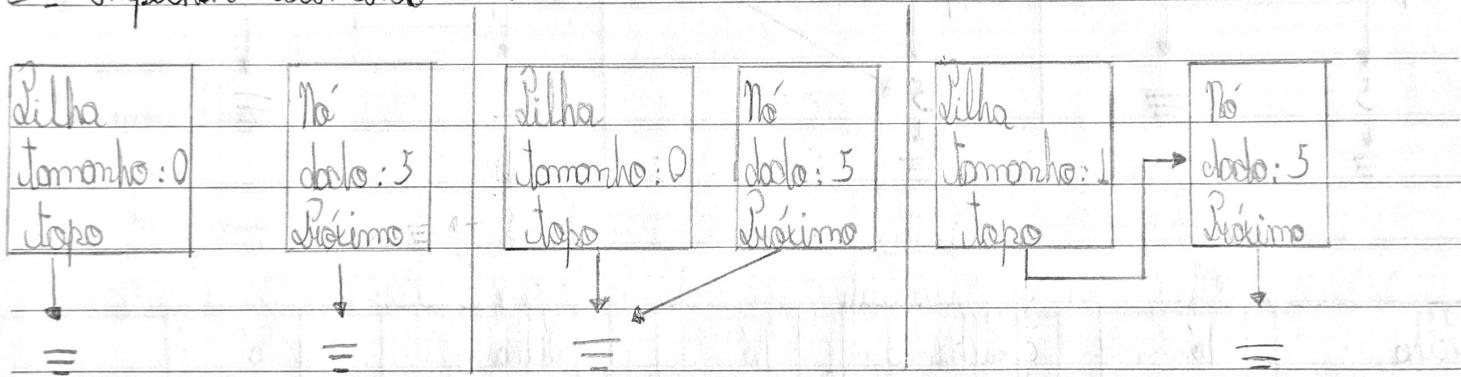
DOM	SEG	TER	QUA	QUI	SEX	SÁB
DOM	LUN	MAR	MIÉ	JUE	VIE	SÁB



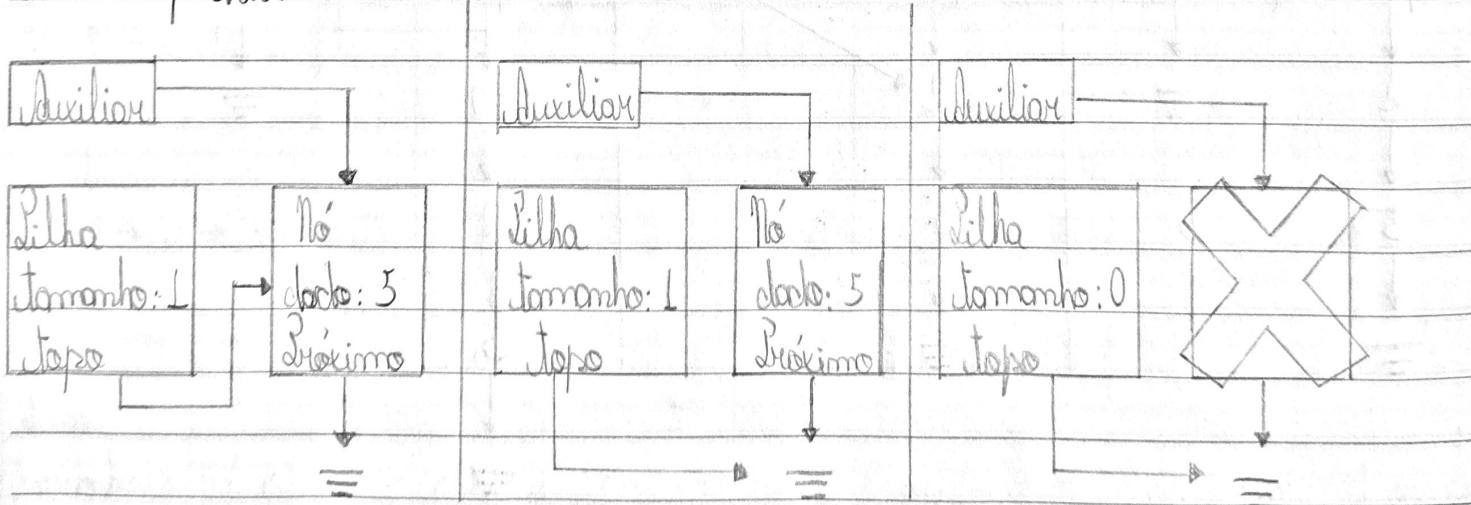
4. Desempilhar.



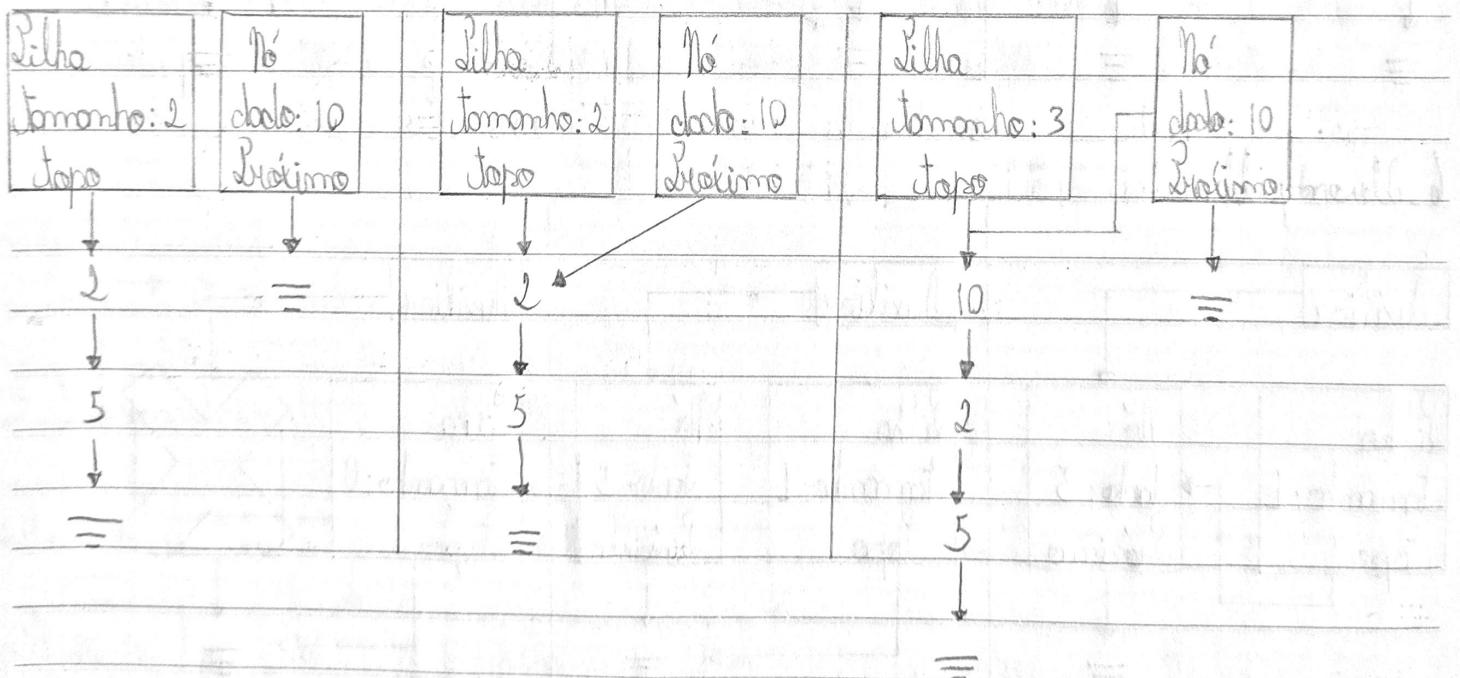
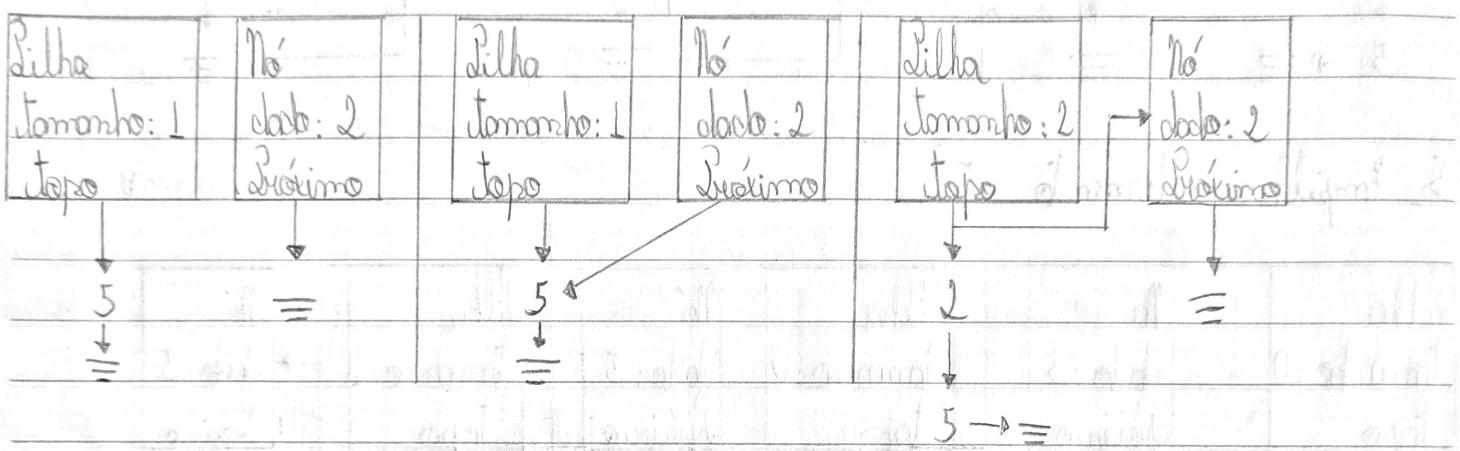
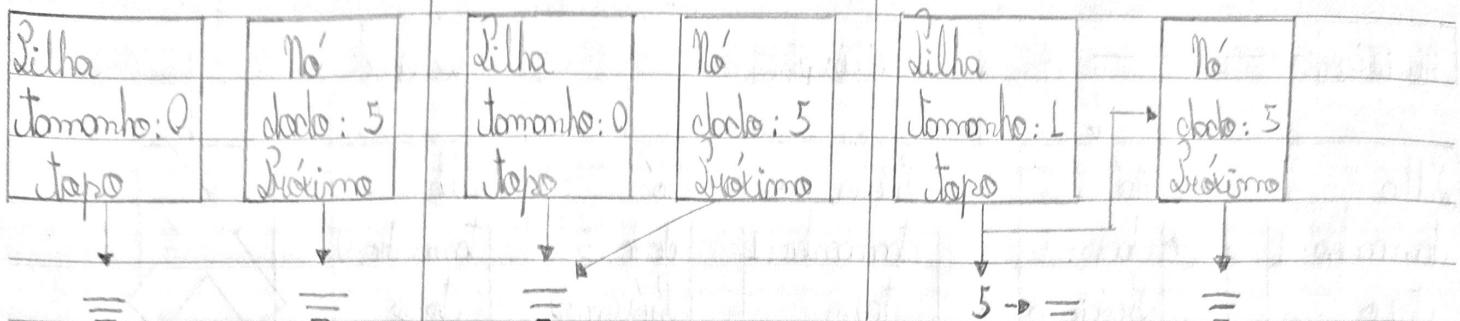
5. Empilhar elemento 5.



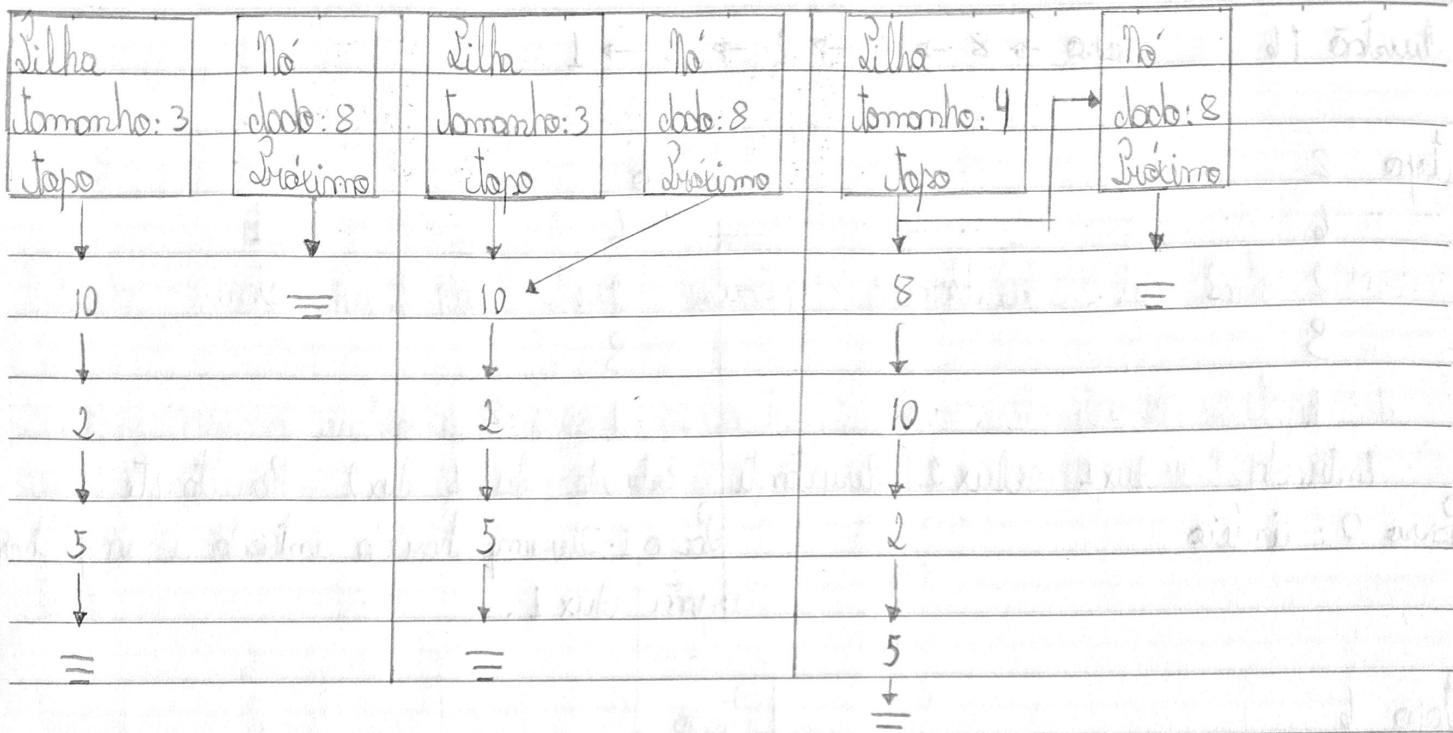
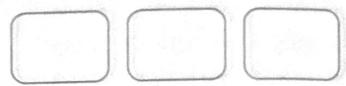
6. Desempilhar.



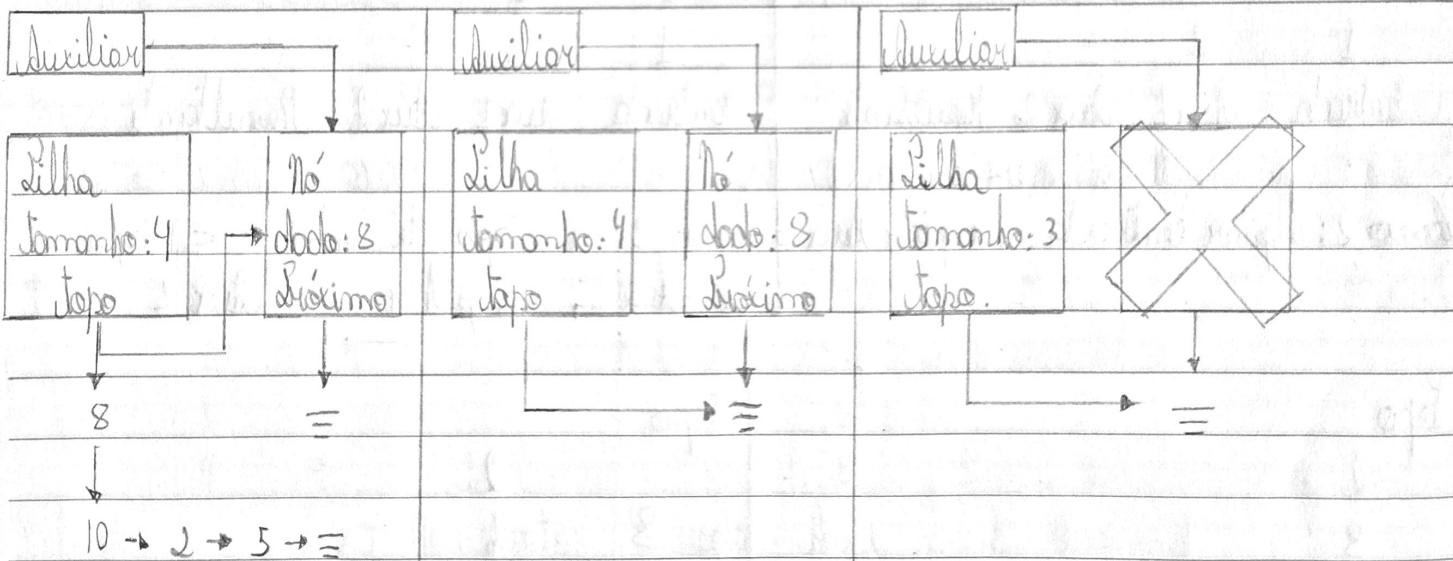
7. Empilham elementos 5, 2, 10, 8.



DOM	SEG	TER	QUA	QUI	SEX	SÁB
DOM	LUN	MAR	MÍÉ	JUE	VIE	SÁB



8. Desempilhar





DOM DOM	SEG LUN	TER MAR	QUA MIÉ	QUI JUE	SEX VIE	SÁB SÁB
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Ajustão 16 Topo $\rightarrow 8 \rightarrow 6 \rightarrow 2 \rightarrow 3 \rightarrow 1$

Topo 8

6

2

3

1

Entrada Aux1 Aux2 Resultante

Passo 0: inicio

Topo

6

2

3

1

8

Entrada Aux1 Aux2 Resultante

Passo 1: desempilhar da entrada e empilhar um Aux1.

Topo 6

2

3

1

8

Entrada Aux1 Aux2 Resultante

Passo 2: espia Entrada e espia Aux1

Passo 3: se topo de entrada < topo de Aux1, empilhar um Aux1

Topo

2

3

1

8

Entrada Aux1 Aux2 Resultante

Topo

2

3

6

1

8

Entrada Aux1 Aux2 Resultante

Passo 4: espia Entrada e espia Aux1

Topo

2

3

6

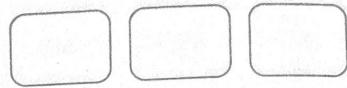
1

8

Entrada Aux1 Aux2 Resultante

Passo 5: se topo de entrada < topo de Aux1, empilhar um Aux1.

DOM	SEG	TER	QUA	QUI	SEX	SÁB
	LUN	MAR	MIÉ	JUE	VIE	SÁB



Topo

9	6
1	8

Topo

2		
6		
1	8	9

Entrada aux1 aux2 Resultante

Entrada aux1 aux2 Resultante

Passo 6: espionar entrada e espionar aux1

Passo 7: de topo de entrada > topo de aux1, empilhar em aux2.

Topo

9		
6		
1	8	9

Topo

1	8
2	
6	
8	9

Entrada aux1 aux2 Resultante

Entrada aux1 aux2 Resultante

Passo 8: espionar entrada, espionar aux1 e espionar aux2.

Passo 9: de topo entrada < topo de aux1, empilhar em aux1.

Topo

1		
6		
8	9	1

Topo

6	2
8	9
1	

Entrada aux1 aux2 Resultante

Entrada aux1 aux2 Resultante

Passo 10: desempilhar de aux1 e empilhar em Resultante.

Passo 11: desempilhar de aux1 e empilhar em Resultante.

topo

6

2

1

8 9

topo

8

6

2

9

1

Entrada Aux1 Aux2 Resultante

Entrada Aux1 Aux2 Resultante

Passo 12: desempilhar de aux1
e empilhar um Resultante.

Passo 13: desempilhar de aux1 e empilhar
um Resultante.

topo

3

8

6

2

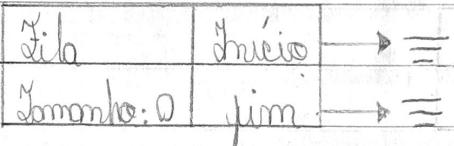
1

Passo 14: desempilhar de aux1 e
empilhar um Resultante.

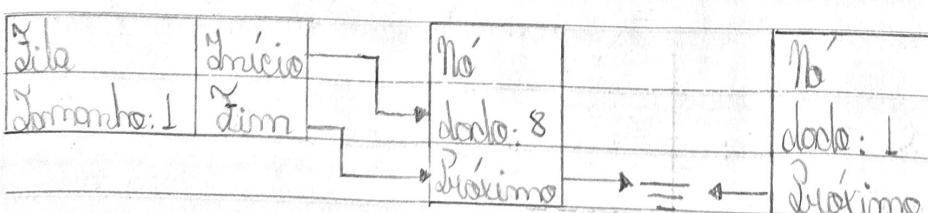
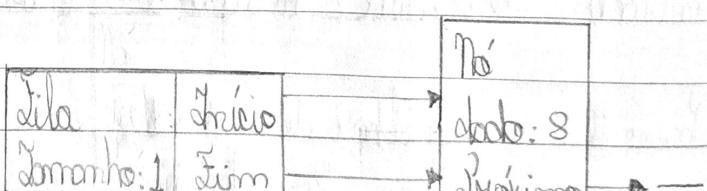
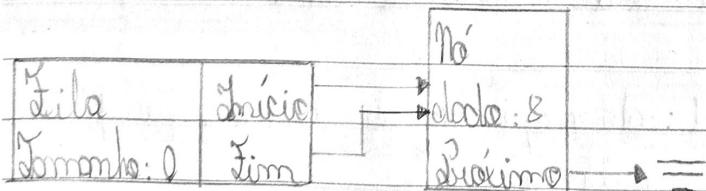
Entrada Aux1 Aux2 Resultante

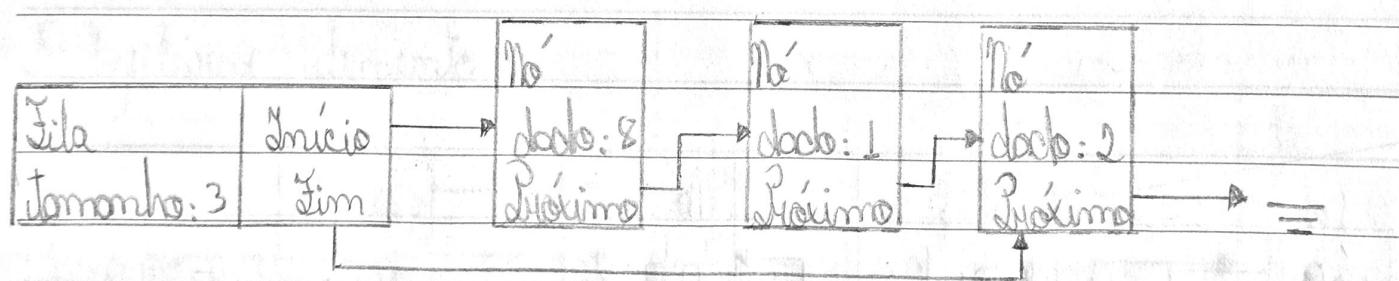
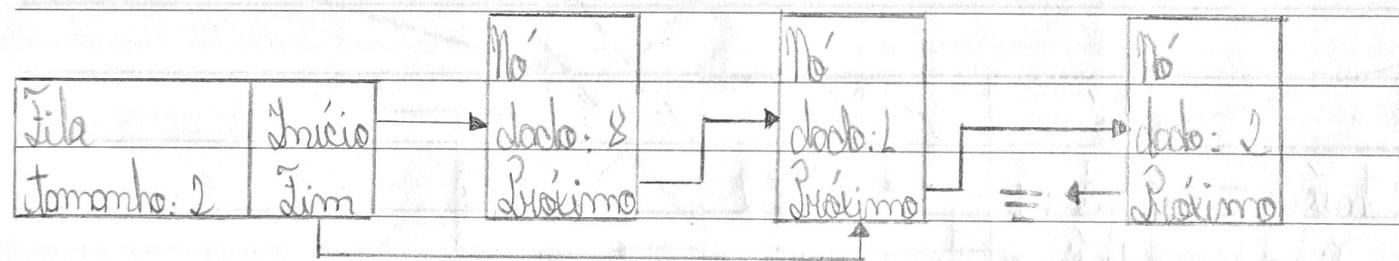
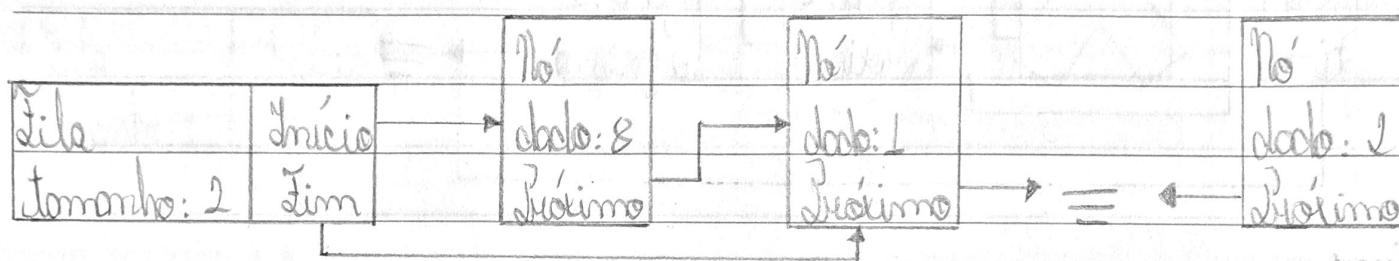
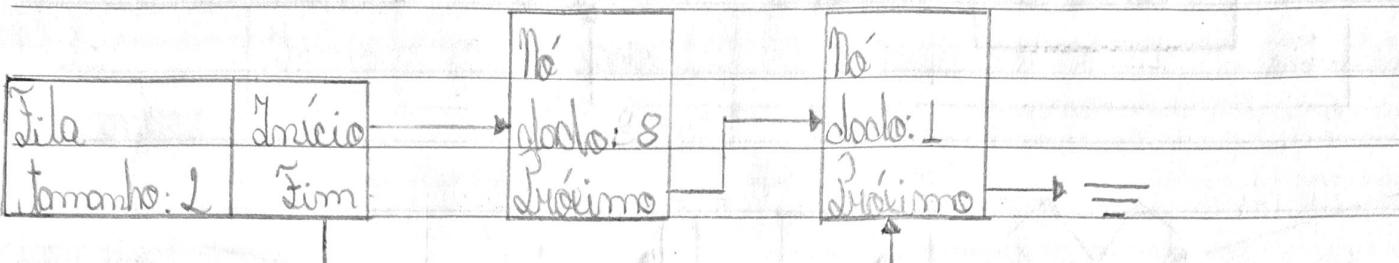
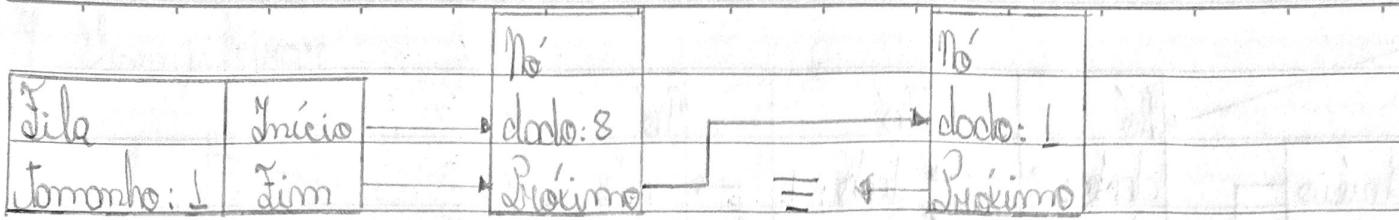
Inserção 23

0. Criar fila.

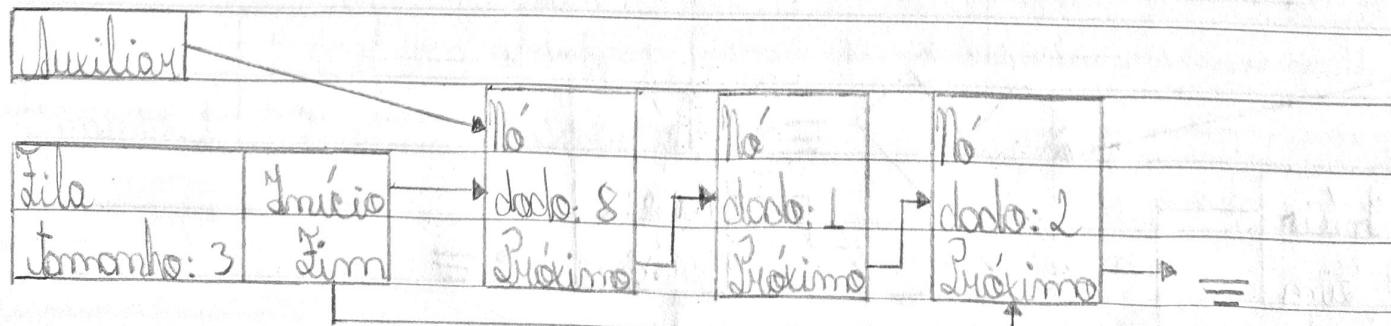


1. Empilhar elementos 8, 1, 2.



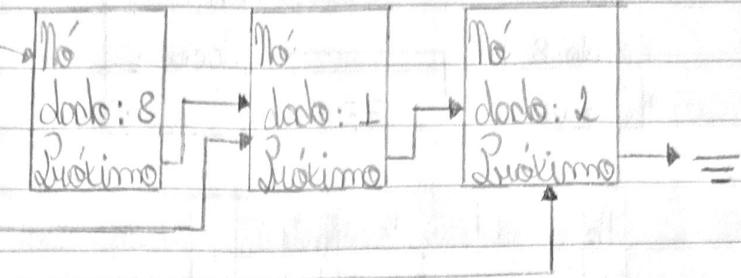


2 - Desenfileirar.



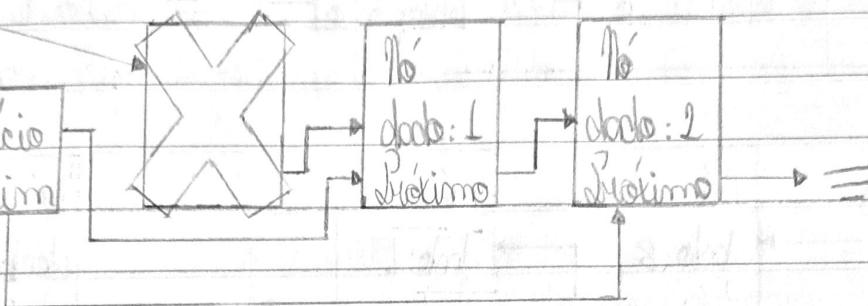
Auxiliar

Fila	Ínicio
Tomarho:3	Tim



Auxiliar

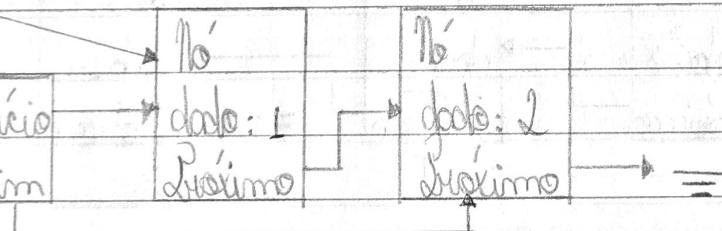
Fila	Ínicio
Tomarho:2	Tim



3. Desimplificar

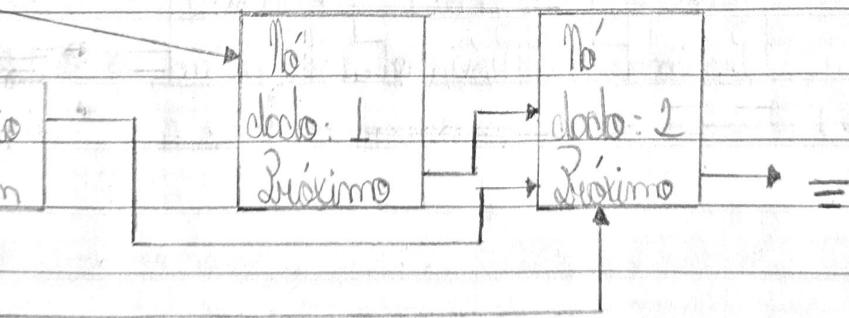
Auxiliar

Fila	Ínicio
Tomarho:2	Tim



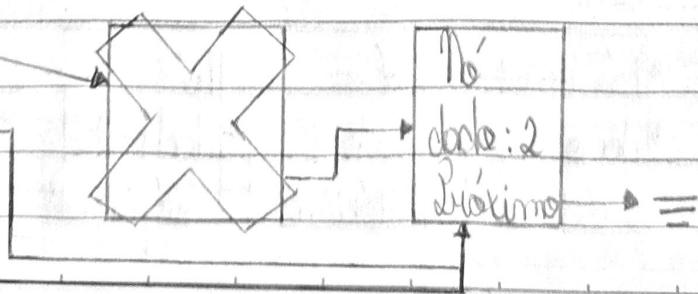
Auxiliar

Fila	Ínicio
Tomarho:1	Tim



Auxiliar

Fila	Ínicio
Tomarho:1	Tim



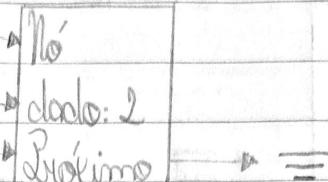
DOM DOM	SEG LUN	TER MAR	QUA MIÉ	QUI JUE	SEX VIE	SÁB SÁB
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4. Desempilar

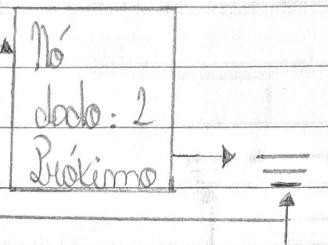
Iniciar

Fila	Inicio
Tomarho:1	Sim



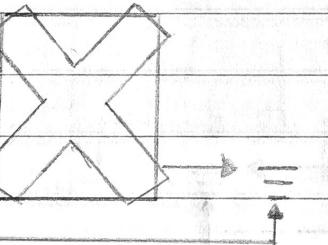
Iniciar

Fila	Inicio
Tomarho:1	Sim



Iniciar

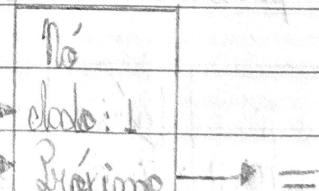
Fila	Inicio
Tomarho:0	Sim



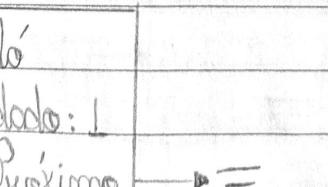
5. Empilar elemento 1.

Fila	Inicio
Tomarho:0	Sim

Fila	Inicio
Tomarho:0	Sim



Fila	Inicio
Tomarho:1	Sim

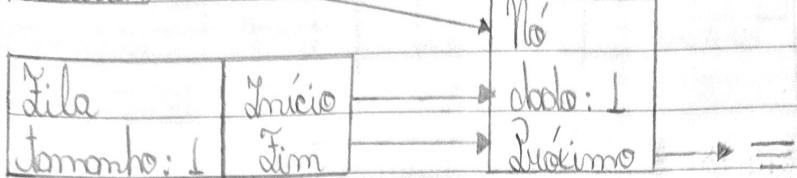




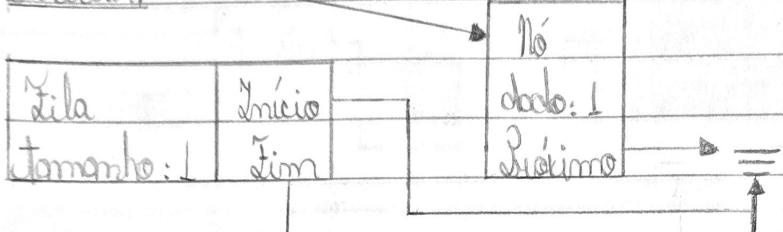
DOM DOM	SEG LUN	TER MAR	QUA MIÉ	QUI JUE	SEX VIE	SÁB SAB
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6. Insertar en la lista

Añadir:



Añadir:



Añadir:



7. Insertar elementos 5, 8, 0, 2.

Fila	Inicio	→ =
Tomarho: 0	Tim	→ =

Fila	Inicio	→ =
Tomarho: 0	Tim	→ =

Nó dato: 5	Próximo	→ =
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Fila	Inicio	→ =
Tomarho: 1	Tim	→ =

Nó

dato: 5

Próximo

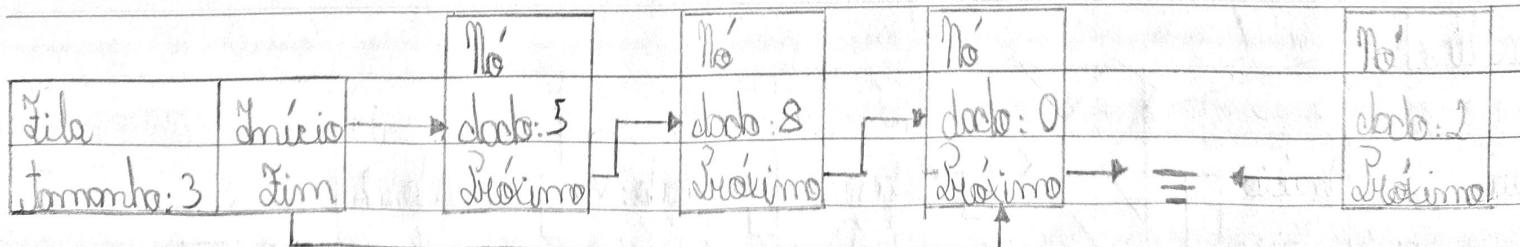
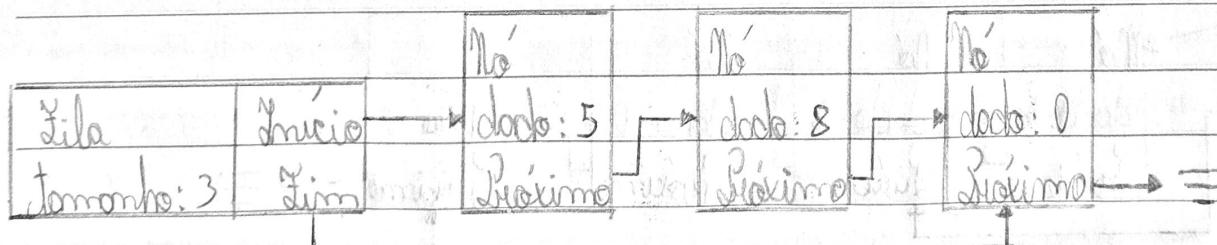
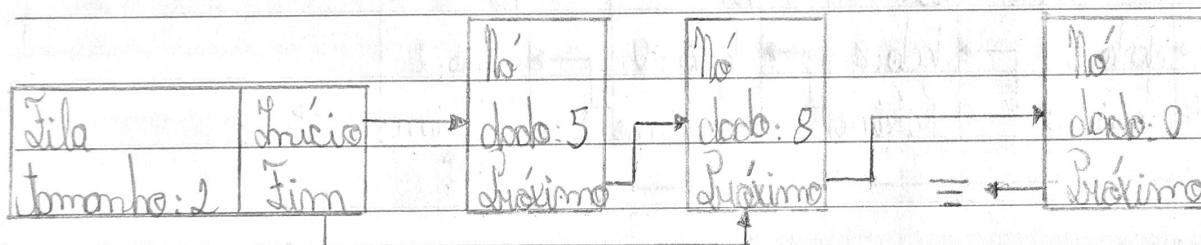
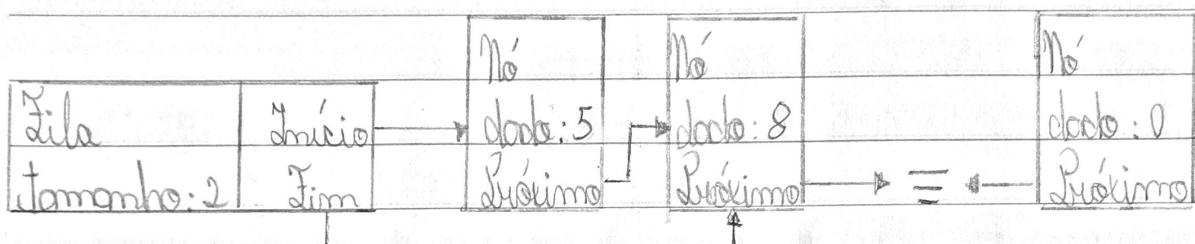
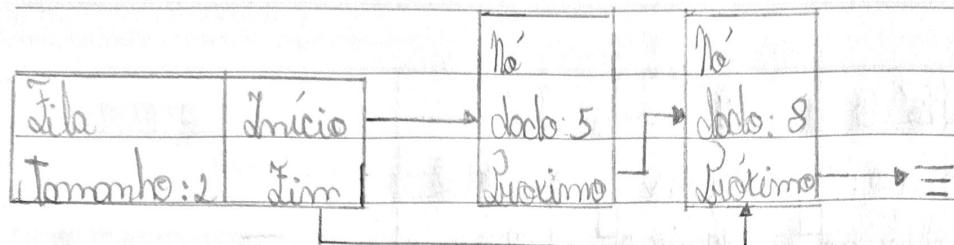
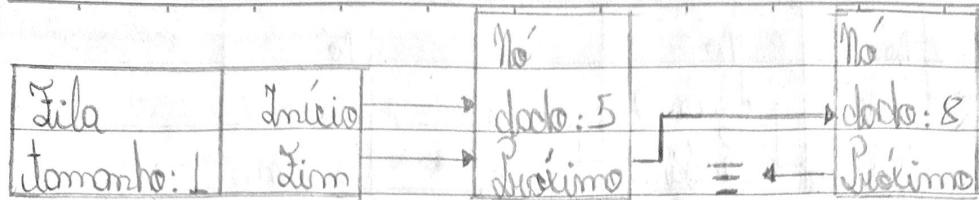
Fila	Inicio	→ =
Tomarho: 1	Tim	→ =

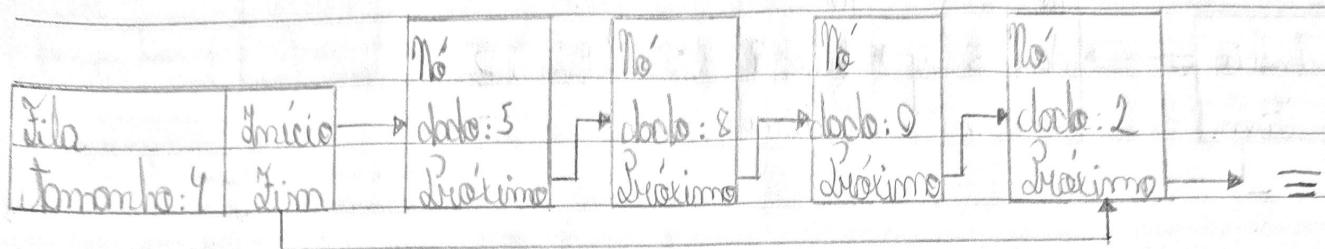
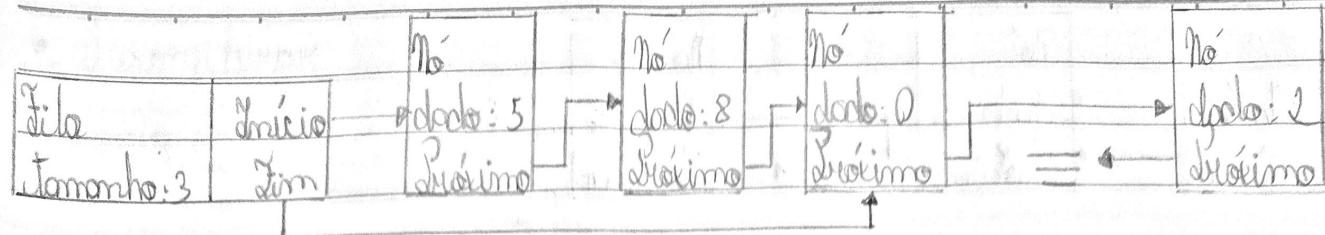
Nó

dato: 5

Próximo

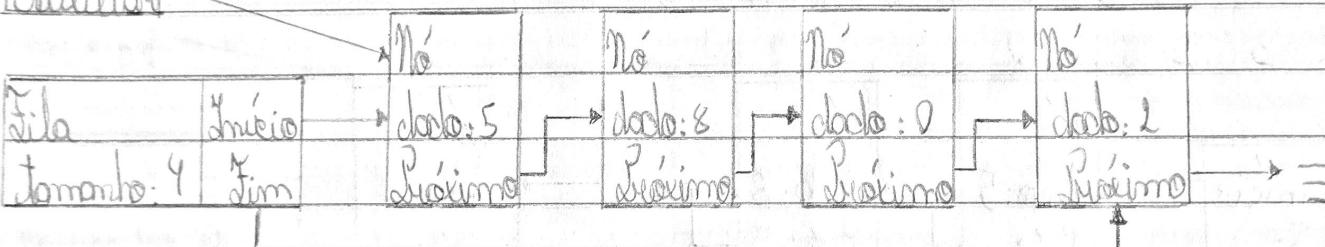
Nó dato: 8	Próximo	→ =
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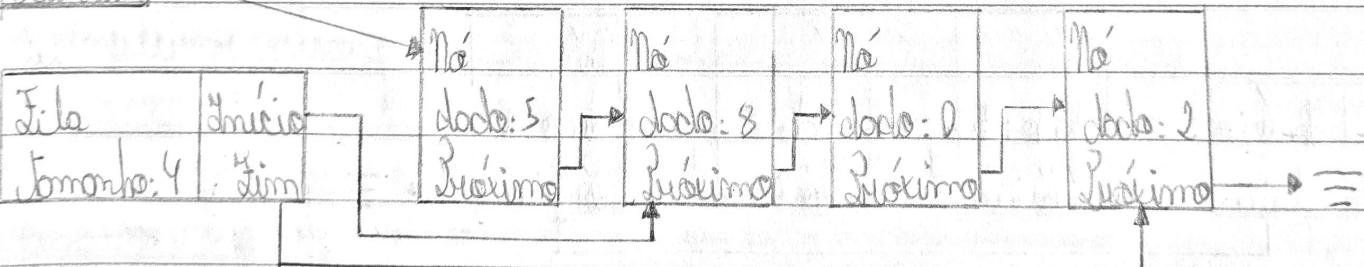


8. Desempilhar

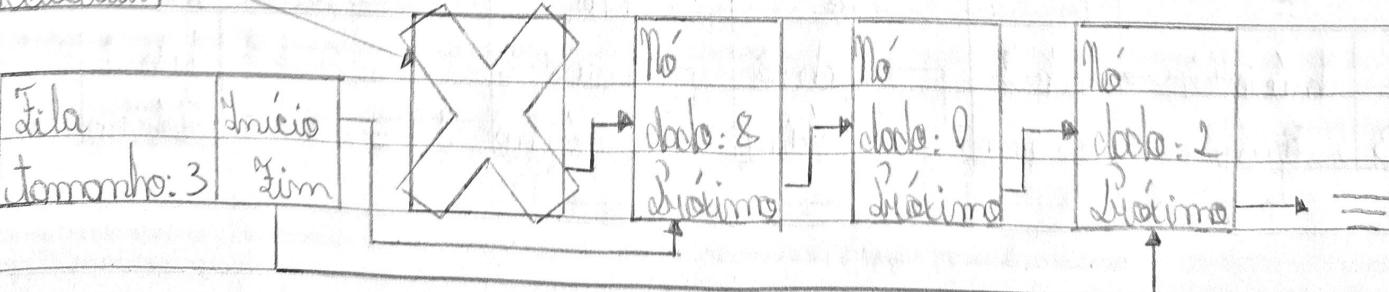
Auxiliar



Auxiliar



Auxiliar



Questão 25

A: Início \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8 \rightarrow 9 \rightarrow 10

B: Início \rightarrow 3 \rightarrow 5 \rightarrow 1 \rightarrow 10

Entrada A: 1 2 3 4 5 6 7 8 9 10

Entrada B: 3 5 1 10

Aux:

Resultante:

Passo 0: Início.

Entrada A: 1 2 3 4 5 6 7 8 9 10

Entrada B: 3 5 1 10

Aux:

Resultante:

Passo 1: Copiar entrada A e B

Entrada A: 1 3 4 5 6 7 8 9 10

Entrada B: 3 5 1 10

Aux: 1

Resultante:

Passo 2: como entrada A está um antecessor B, desenfileirar entrada A e empilhar em aux.



DOM DOM	SEG LUN	TER MAR	QUA MIÉ	QUI JUE	SEX VIE	SÁB SAB
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Entrada A: 2 3 4 5 6 7 8 9 10

El resultado

Entrada B: 3 5 1 10

Dix: 1 2 3 4 5 6 7 8 9

Resultado:

Paso 4: Escribir entradas A, e B

Entrada A: 3 4 5 6 7 8 9 10

Entrada B: 3 5 1 10

Dix: 1 2

Resultado:

Paso 5: Como entrada A no está en B, desempilar de Entrada A.

Entrada A: 3 4 5 6 7 8 9 10

Entrada B: 3 5 1 10

Dix: 1 2

Resultado:

Paso 6: Escribir entradas A, e B

Entrada A: 4 5 6 7 8 9 10

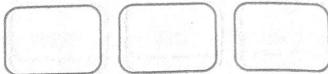
Entrada B: 3 5 1 10

Dix: 1 3

Resultado:

Paso 7: Como entrada A está en B, desempilar Entrada A e unirla con Dix.

DOM | SEG | TER | QUÁ | QUI | SEX | SÁB



Entrada A : 4 5 6 7 8 9 10

Entrada B : 3 5 1 10

Aux : 1 3

Resultado:

Passo 8: Fazer intervalo A e B

Entrada A : 5 6 7 8 9 10

Entrada B : 3 5 1 10

Aux : 1 3

Resultado:

Passo 9: Como entrada A não está em B, desenfileirar entrada A

Entrada A : 5 6 7 8 9 10

Entrada B : 3 5 1 10

Aux : 1 3

Resultado:

Passo 10: Fazer intervalo A e B

Entrada A : 6 7 8 9 10

Entrada B : 3 5 1 10

Aux : 1 3 5

Resultado:

Passo 11: Como entrada A está em B, desenfileirar entrada A e empilhar em Aux.



Entrada A : 6 7 8 9 10

Entrada B : 3 5 1 10

Aux: 1 3 5

Resultante: 3 5

Passo 12: Espiar entrada A e B

Entrada A : 7 8 9 10

Entrada B : 3 5 1 10

Aux: 1 3 5

Resultante:

Passo 13: Como entrada A não está em B, desempilhar entrada A

Entrada A : 7 8 9 10

Entrada B : 3 5 1 10

Aux: 1 3 5

Resultante:

Passo 14: Espiar entrada A e B

Entrada A : 8 9 10

Entrada B : 3 5 1 10

Aux: 1 3 5

Resultante:

Passo 15: Como entrada A não está em B, desempilhar entrada A.

Entrada A: 8 9 10

Entrada B: 3 5 1 10

Aux: 1 3 5

Resultante:

Passo 16: Expon Entrada A e B.

Entrada A: 9 10

Entrada B: 3 3 1 10

Aux: 1 3 5

Resultante:

Passo 17: como Entrada A não está em B, desenfileirar Entrada A

Entrada A: 9 10

Entrada B: 3 3 1 10

Aux: 1 3 5

Resultante:

Passo 18: Expon Entrada A e B.

Entrada A: 10

Entrada B: 3 8 5 1 10

Aux: 1 3 5

Resultante:

Passo 19: como Entrada A não está em B, desenfileirar Entrada A.

Entrada A: 10

Entrada B: 3 5 1 10

Aux: 1 3 5

Resultante:

Passo 20: copiar entrada A ii B.

Entrada A:

Entrada B: 3 5 1 10

Aux: 1 3 5 10

Resultante:

Passo 21: como entrada A está em B, desenfileirar entrada A e empilhar em Aux.

Entrada A:

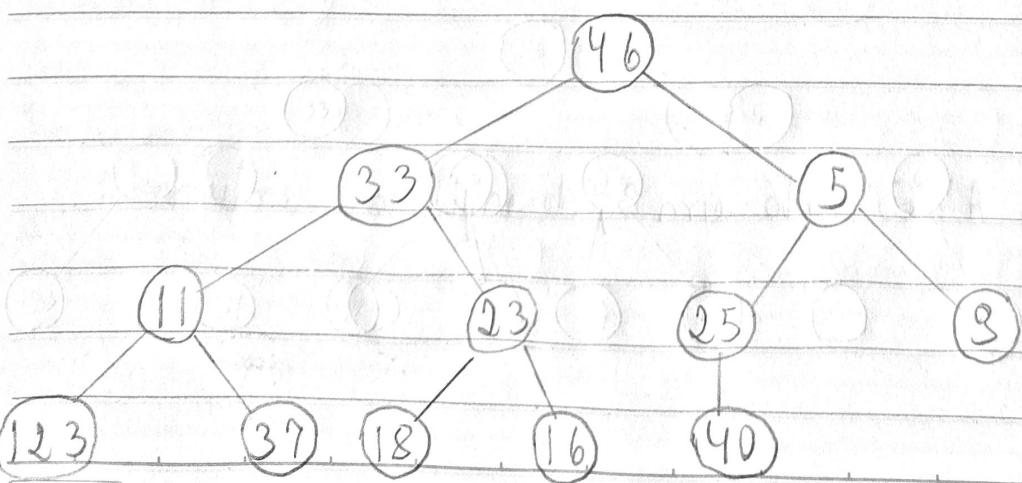
Entrada B: 3 5 1 10

Aux: 1 3 5 10

Resultante: 1 3 5 10

Passo 22: copiar Aux para Resultante.

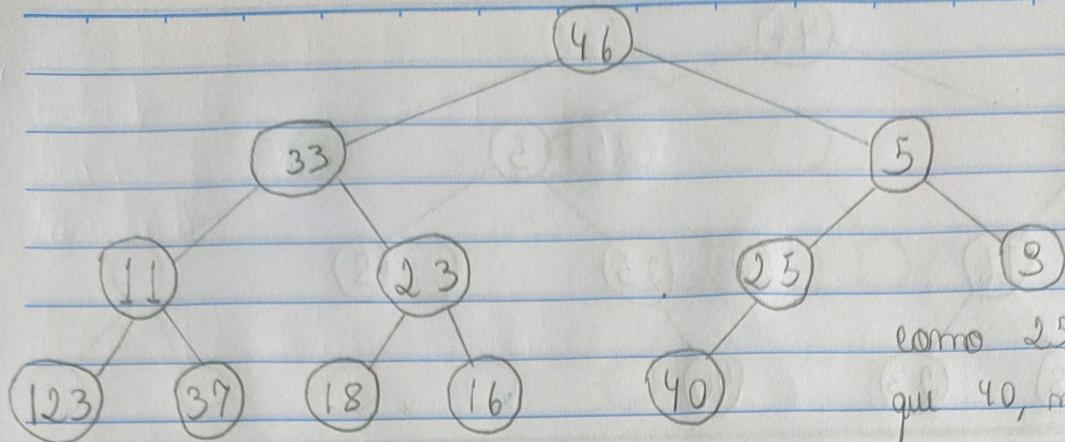
Questão 35 - Minhasp 46 | 33 | 5 | 11 | 23 | 25 | 3 | 123 | 37 | 18 | 16 | 40



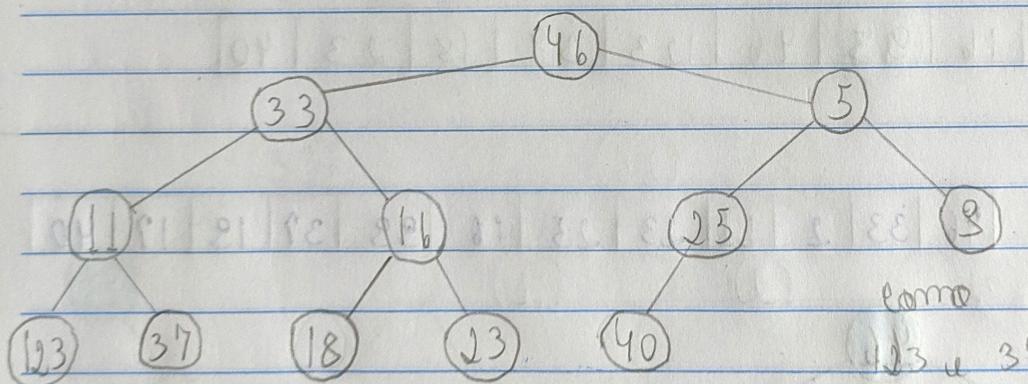
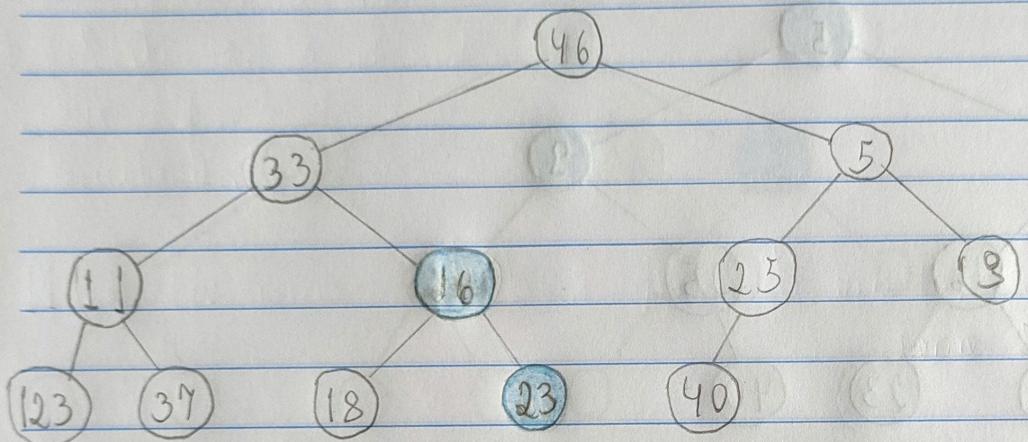
$$12 : 2 = 6,$$

Inicia o processo na posição 6.

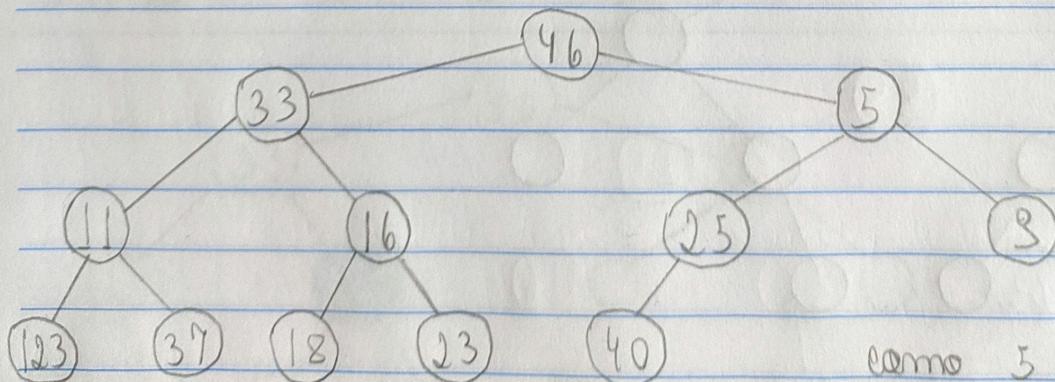
DOM	SEG	TER	QUA	QUI	SEX	SÁB
DOM	LUN	MAR	MIÉ	JUE	VIE	SÁB



como 25 já é menor que 40, moda é feito.

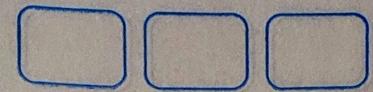


como 11 já é menor que 123 e 37, moda é feito.

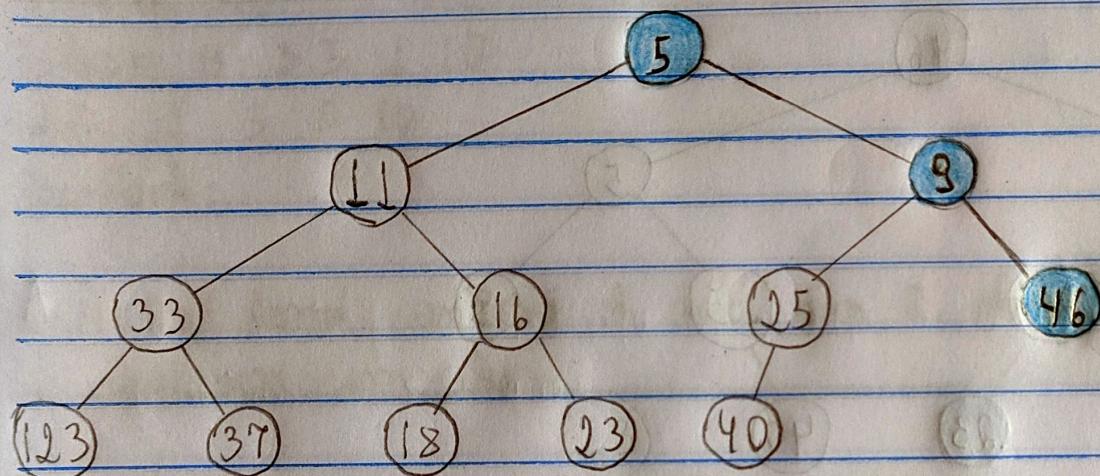
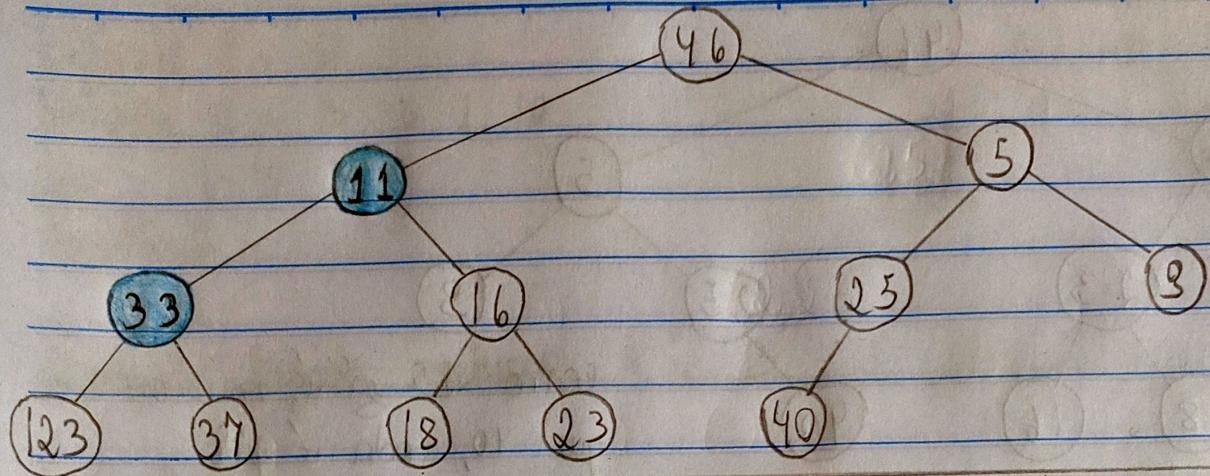


como 5 já é menor que 25 e 3, moda é feito.





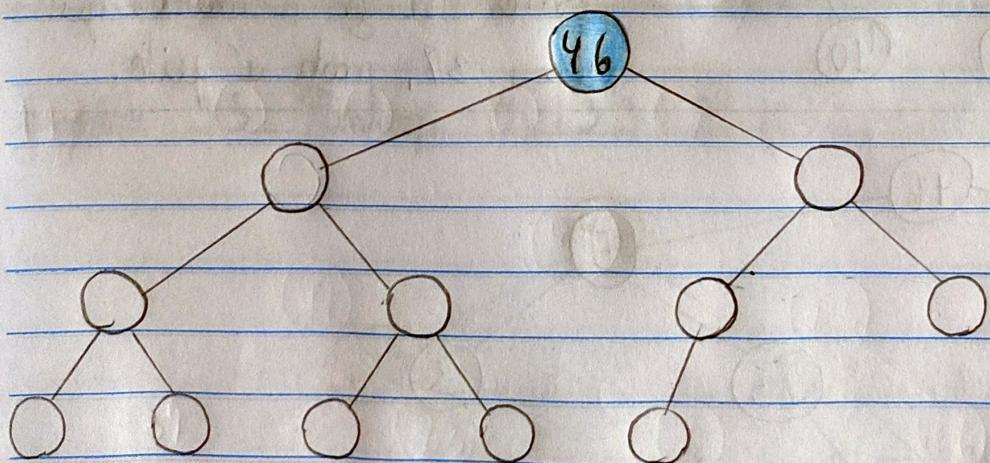
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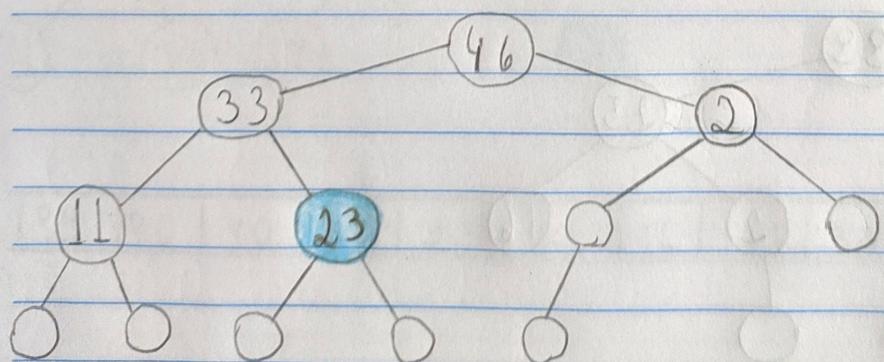
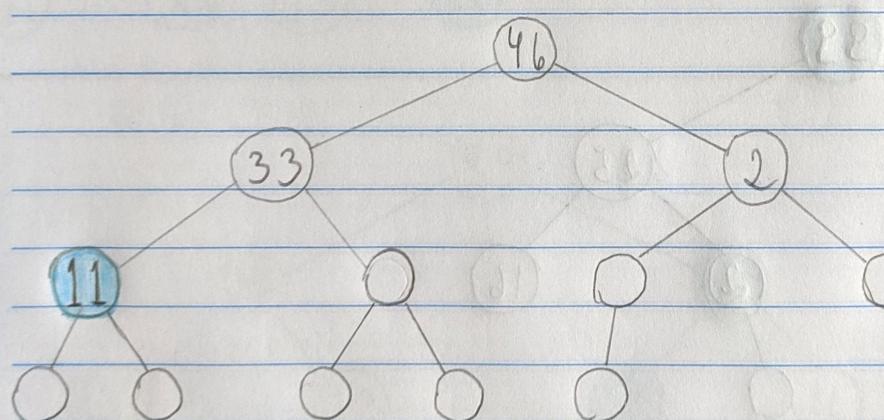
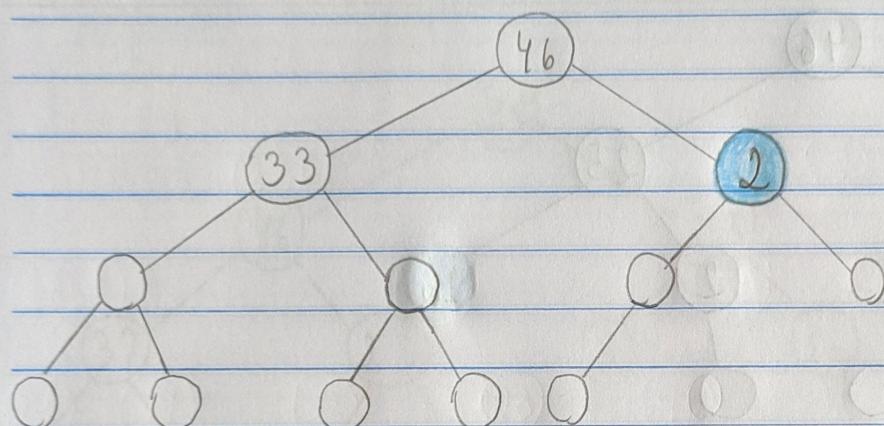
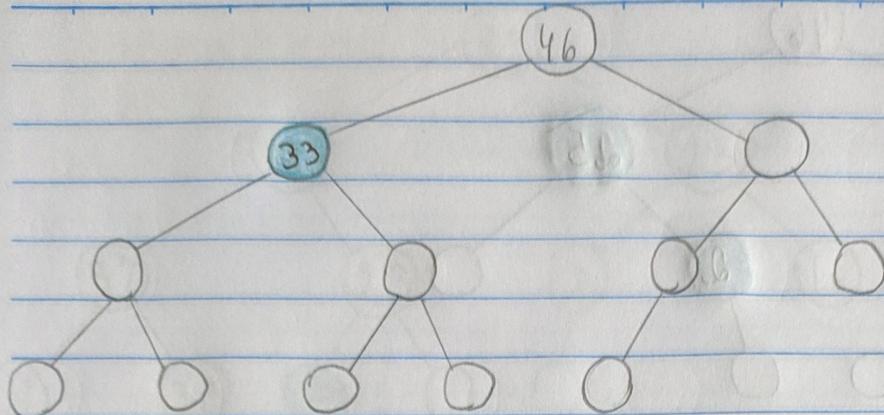
5	11	9	33	16	25	46	123	37	18	23	40
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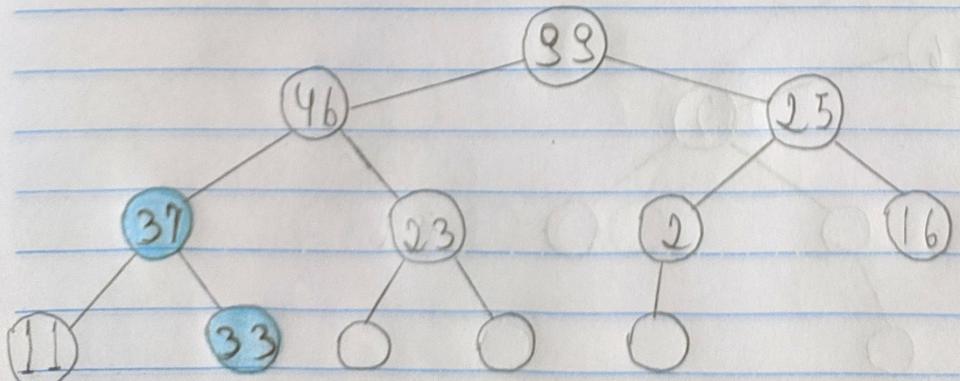
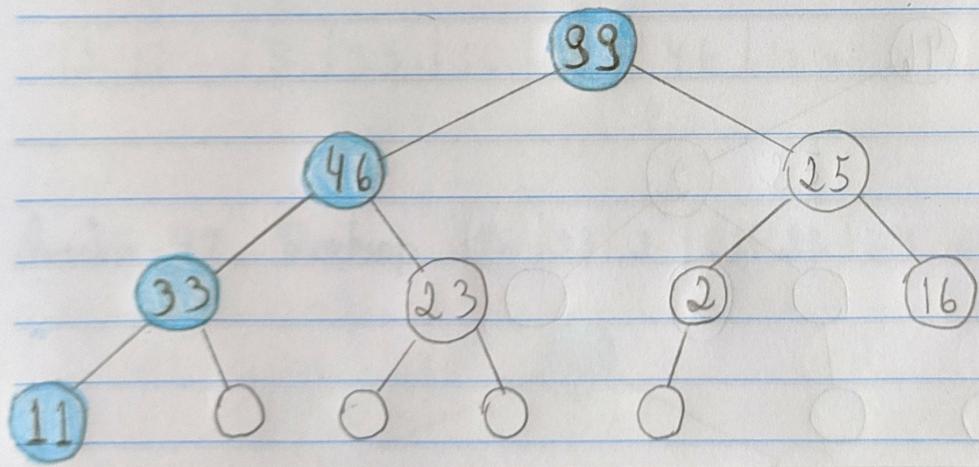
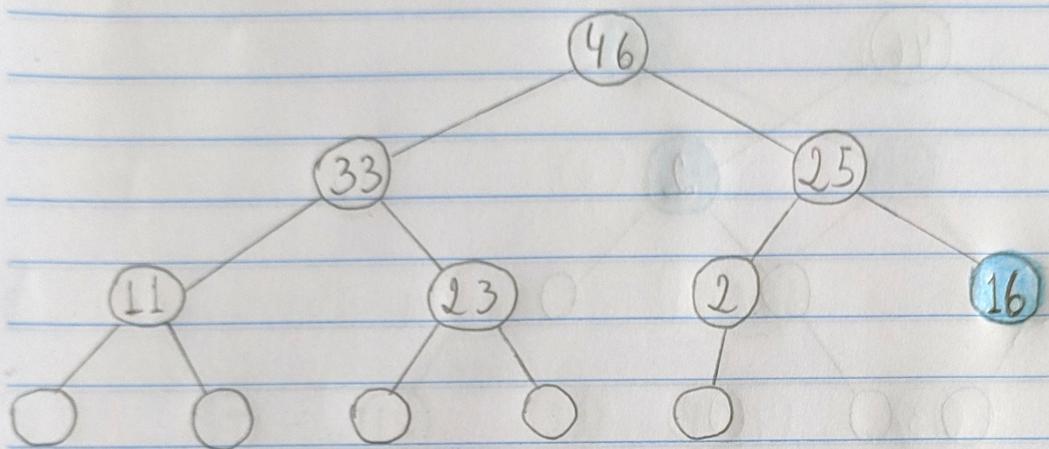
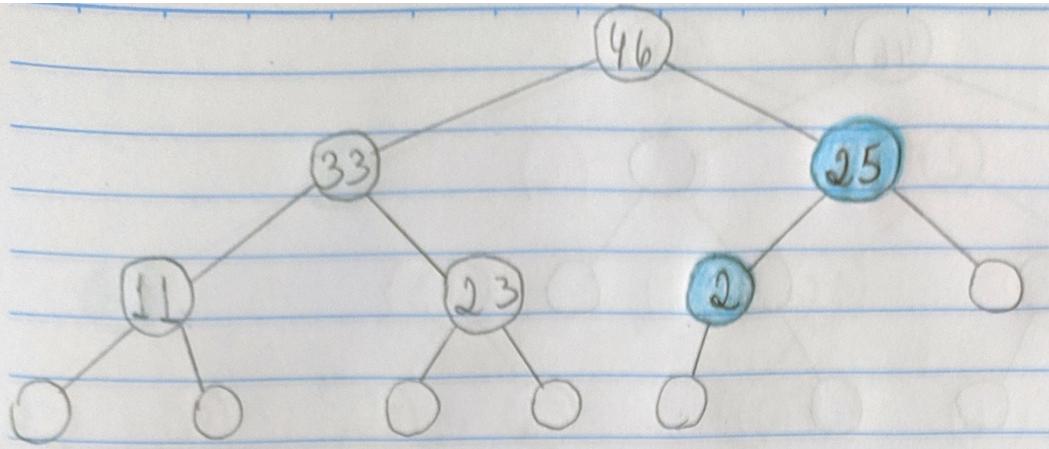
Questão 47 - Maxheaps

46	33	2	11	23	25	16	93	37	18	19	40
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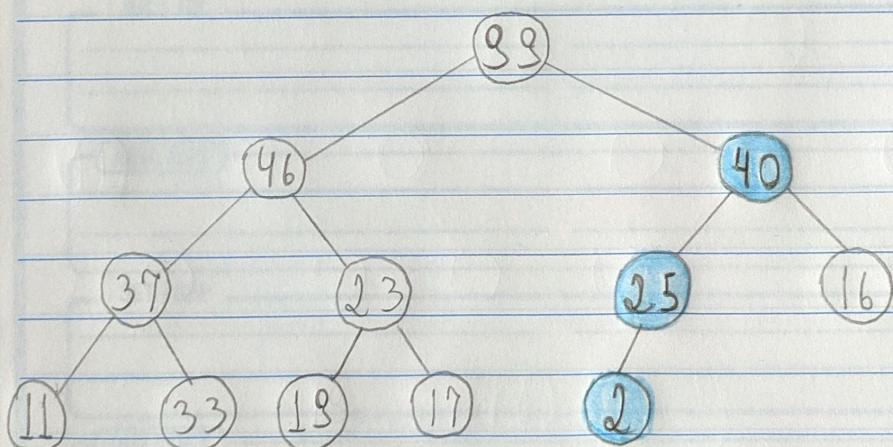
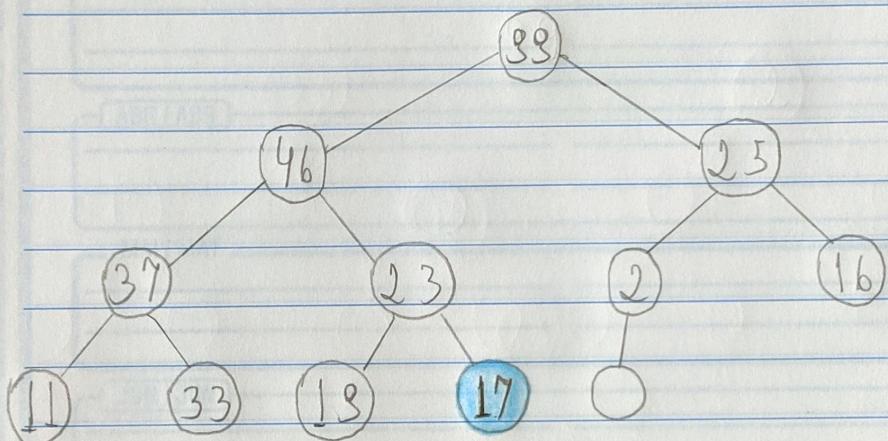
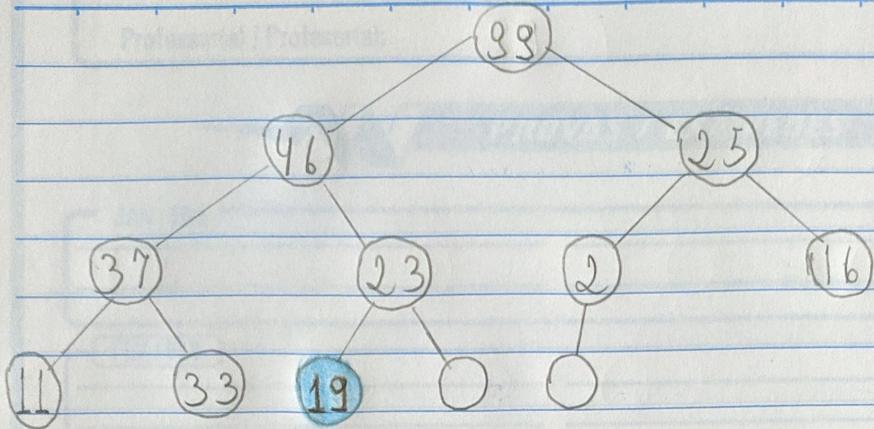
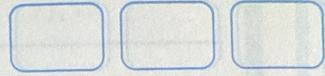


DOM
DOM | SEG
LUN | TER
MAR | QUA
MIÉ | QUI
JUE | SEX
VIE | SÁB
SÁB





DOM | SEG | TER | QUA | QUI | SEX | SÁB
 DOM LUN MAR MIÉ JUE VIE SÁB



88	46	40	37	23	25	16	11	33	19	17	2
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