

Atividade Manual - REO 3

Vitor André de Oliveira Tenório

Exercícios 2, 4, 8, 10 e 13

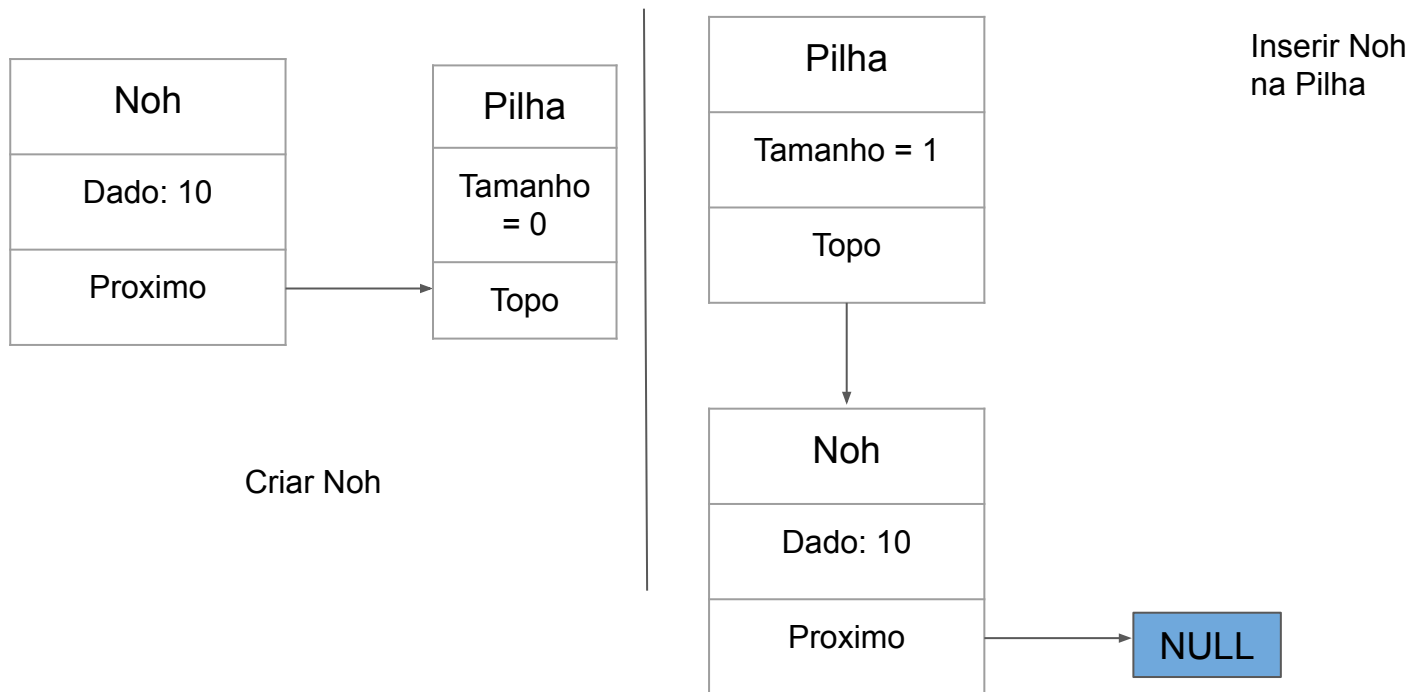
Questão 2

- 0 -Criar Pilha



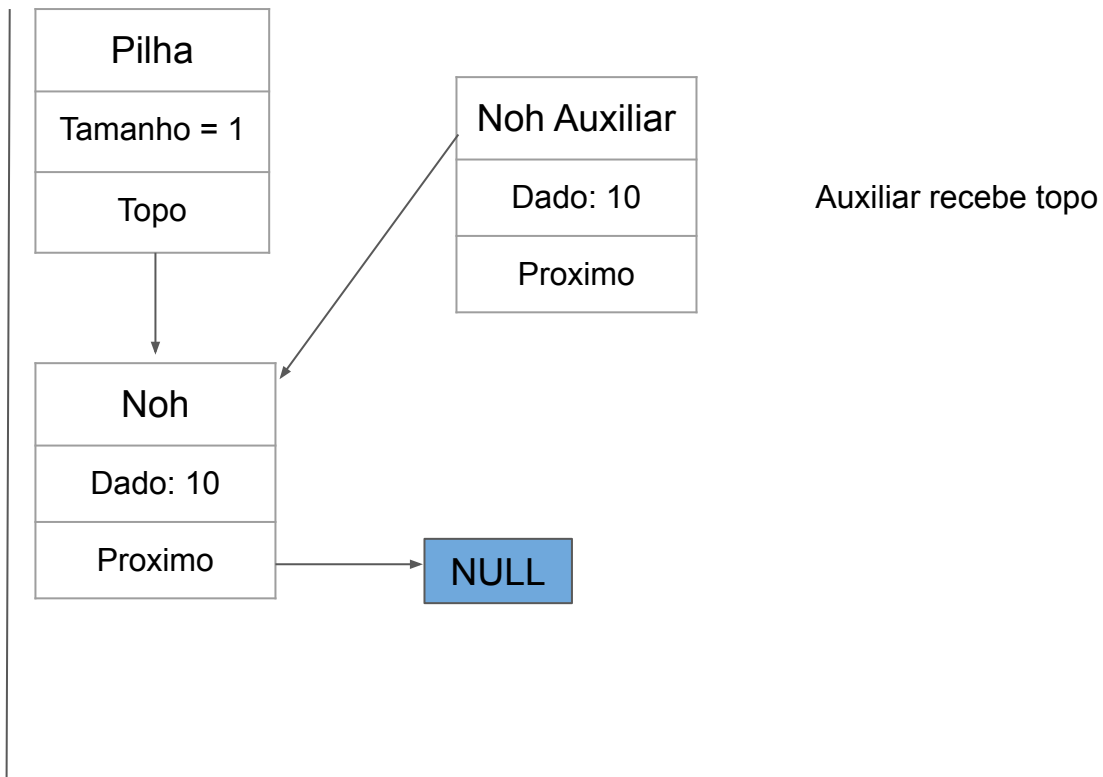
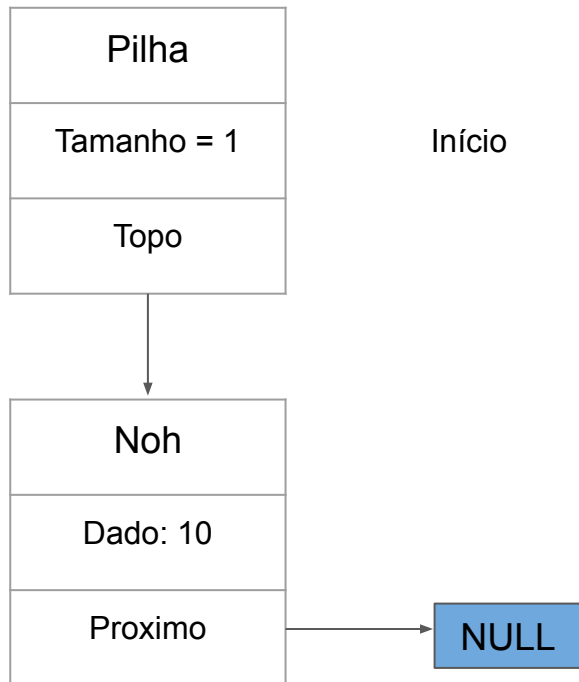
Questão 2

- 1 - Empilhar elemento 10



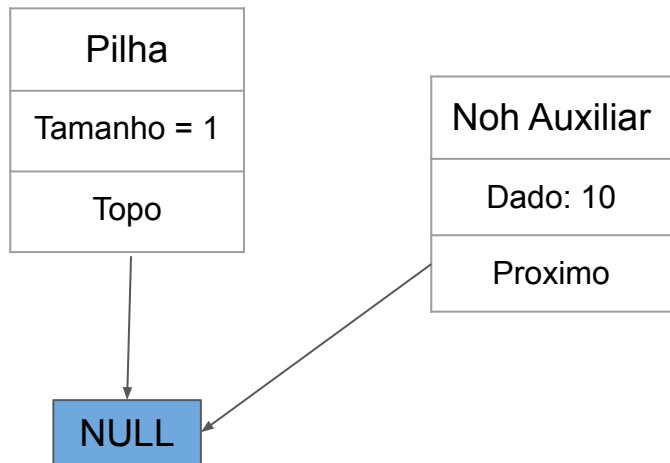
Questão 2

- 2 - Desempilhar

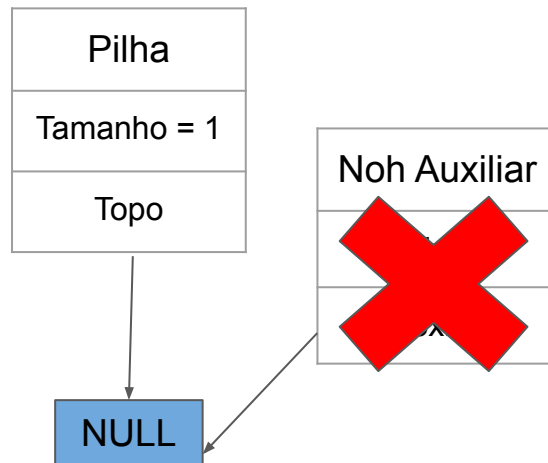


Questão 2

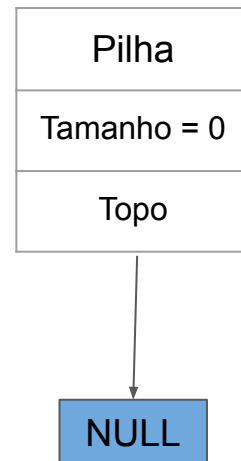
- 2 - Desempilhar



Topo recebe auxiliar->proximo
Variável Dado = 10



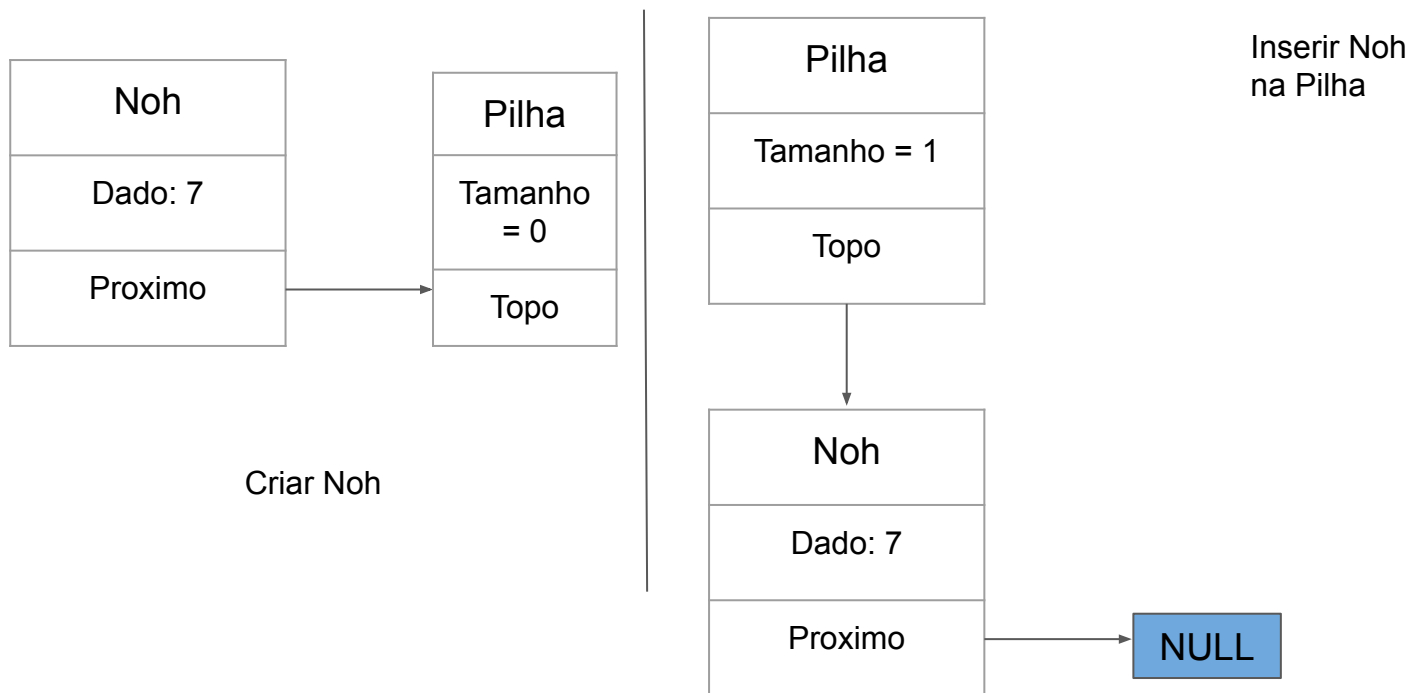
Apaga Auxiliar



Final

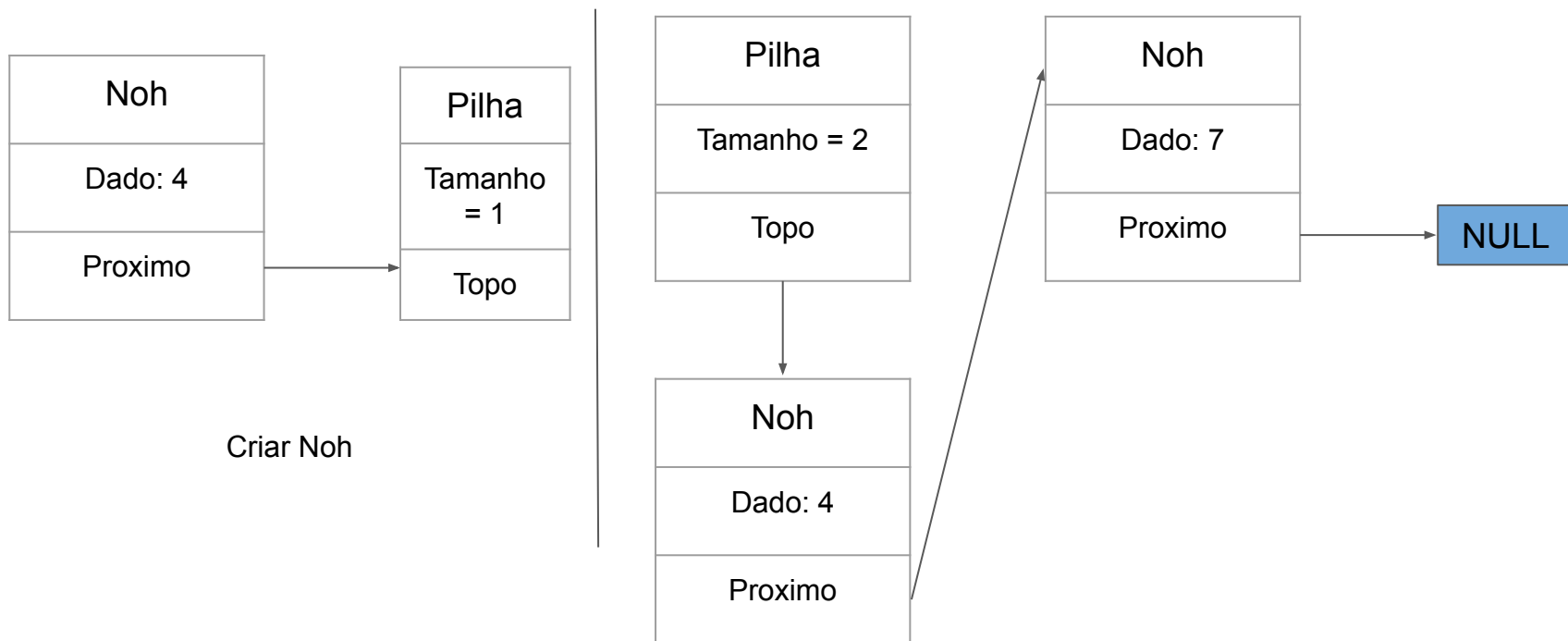
Questão 2

- 3. Empilhar elementos 7, 4, 1, 5



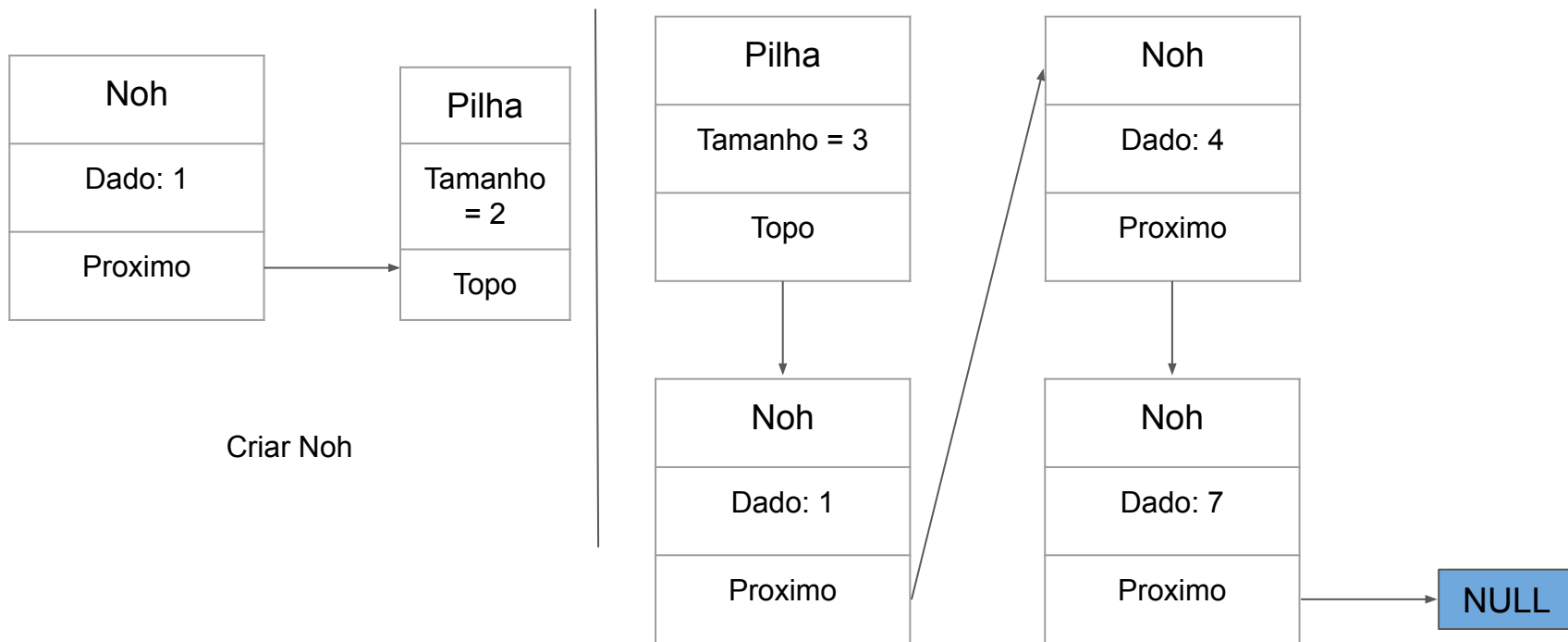
Questão 2

- 3. Empilhar elementos 7, 4, 1, 5



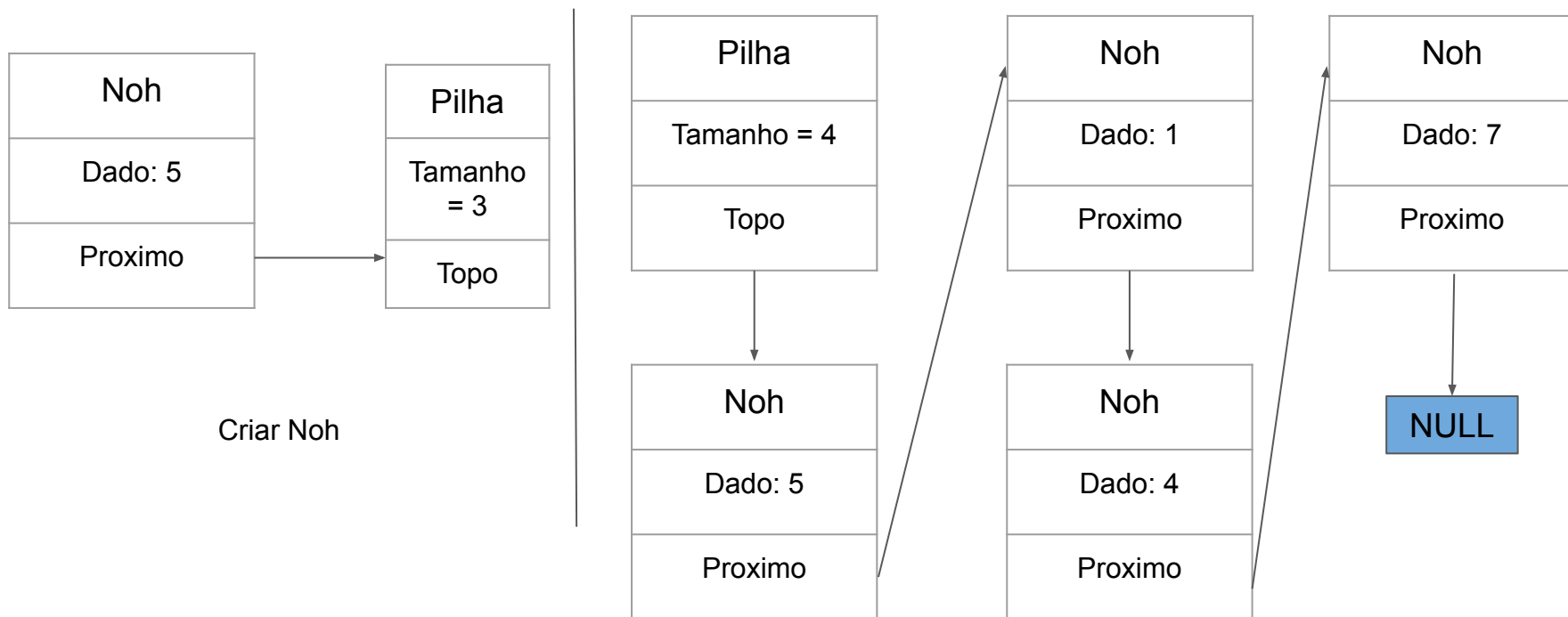
Questão 2

- 3. Empilhar elementos 7, 4, 1, 5



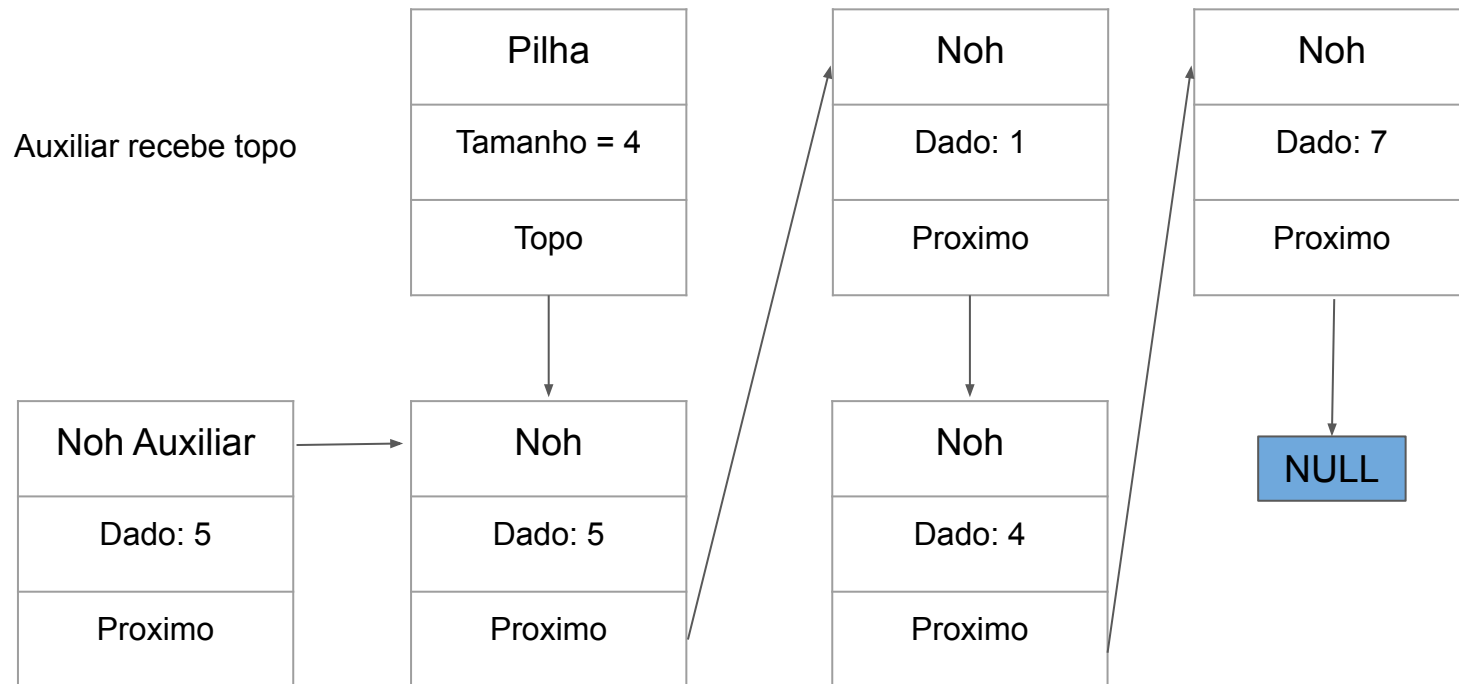
Questão 2

- 3. Empilhar elementos 7, 4, 1, 5



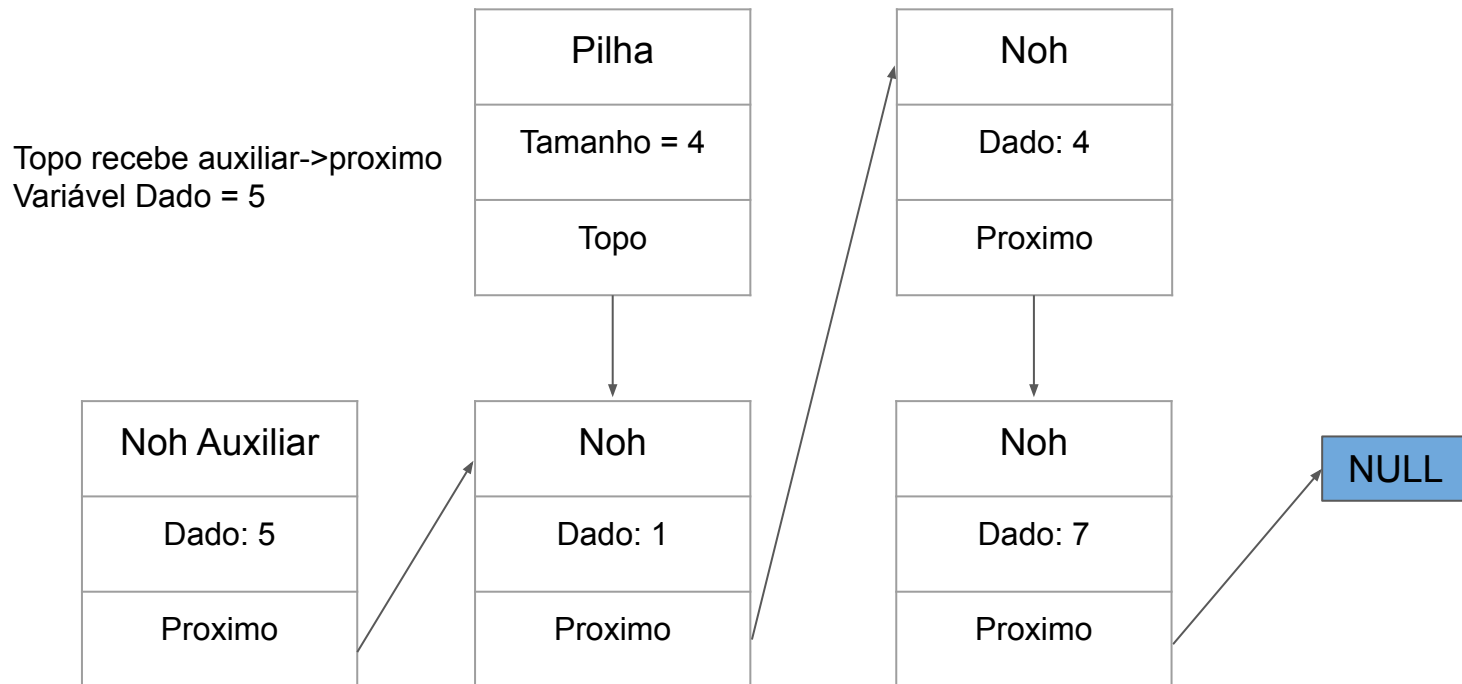
Questão 2

- 4 - Desempilhar



Questão 2

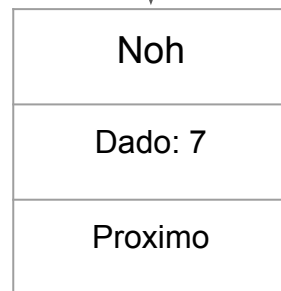
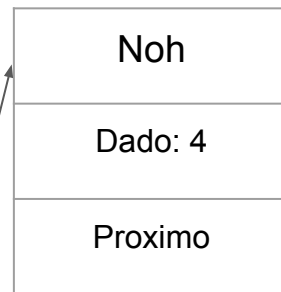
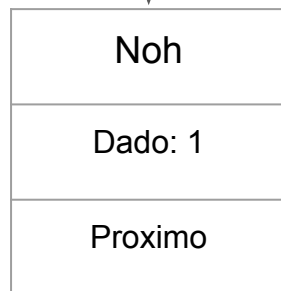
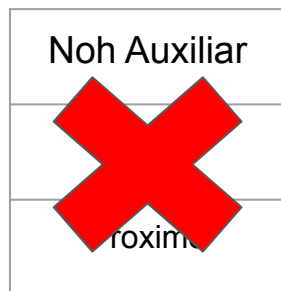
- 4 - Desempilhar



Questão 2

- 4 - Desempilhar

Apaga Auxiliar



NULL

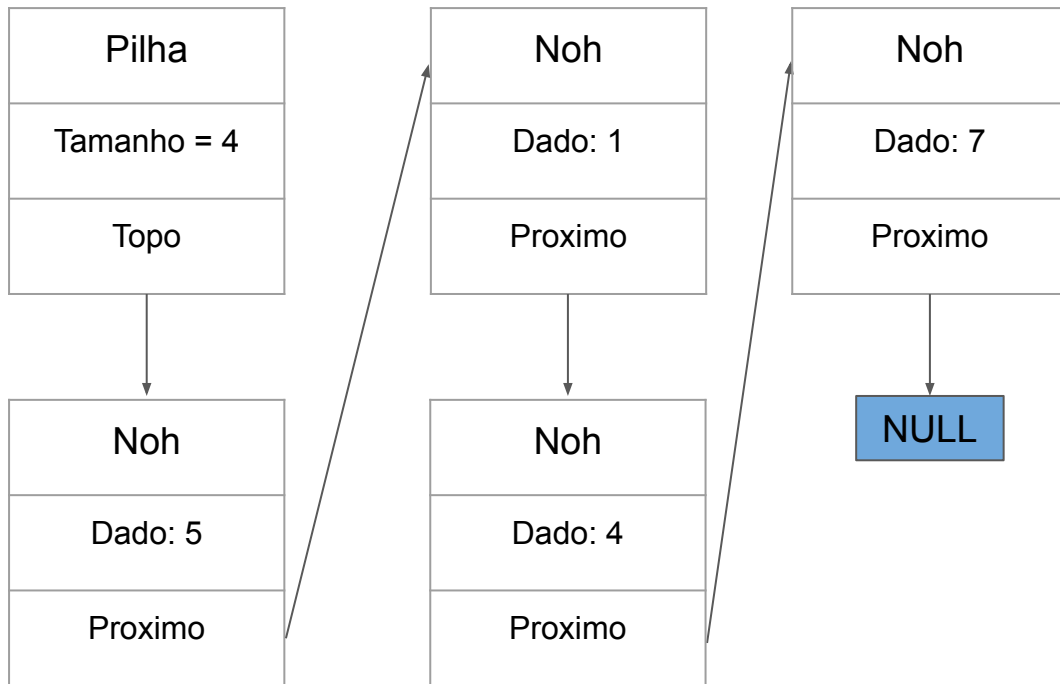
Questão 2

- 5 - Empilhar elementos 5, 9 e 10



Criar Noh

Inserir Noh na Pilha



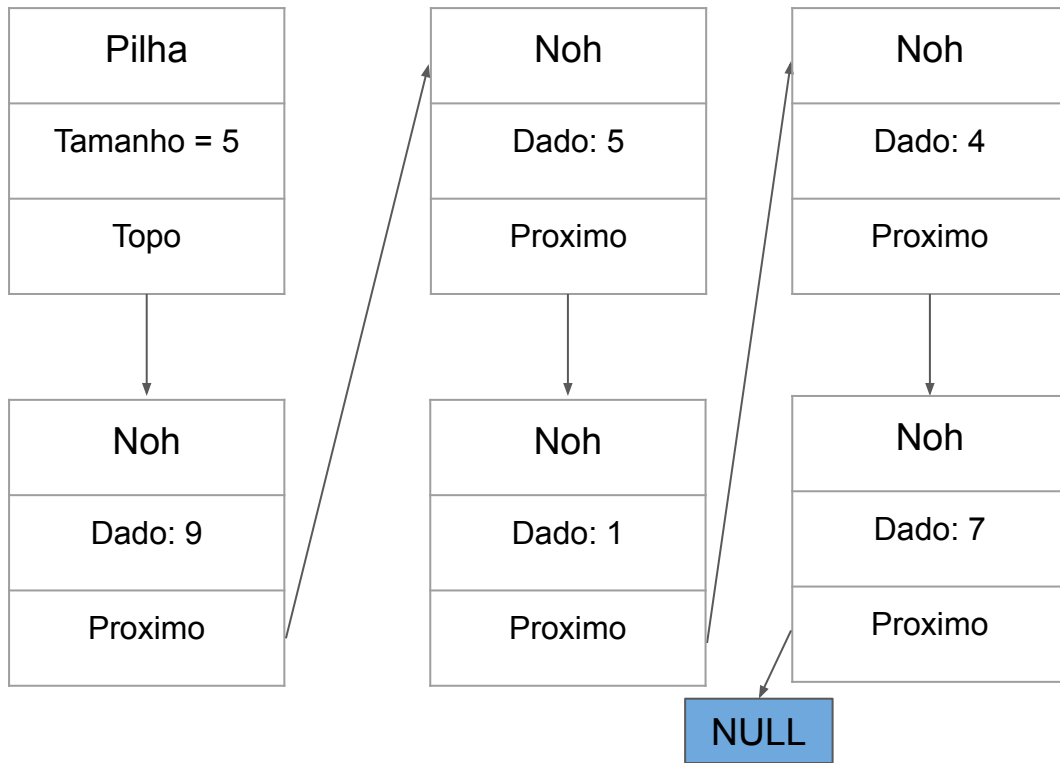
Questão 2

- 5 - Empilhar elementos 5, 9 e 10



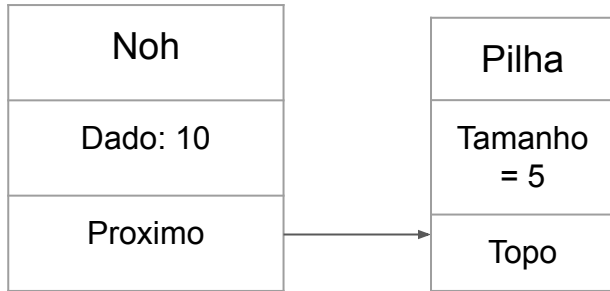
Criar Noh

Inserir Noh na Pilha



Questão 2

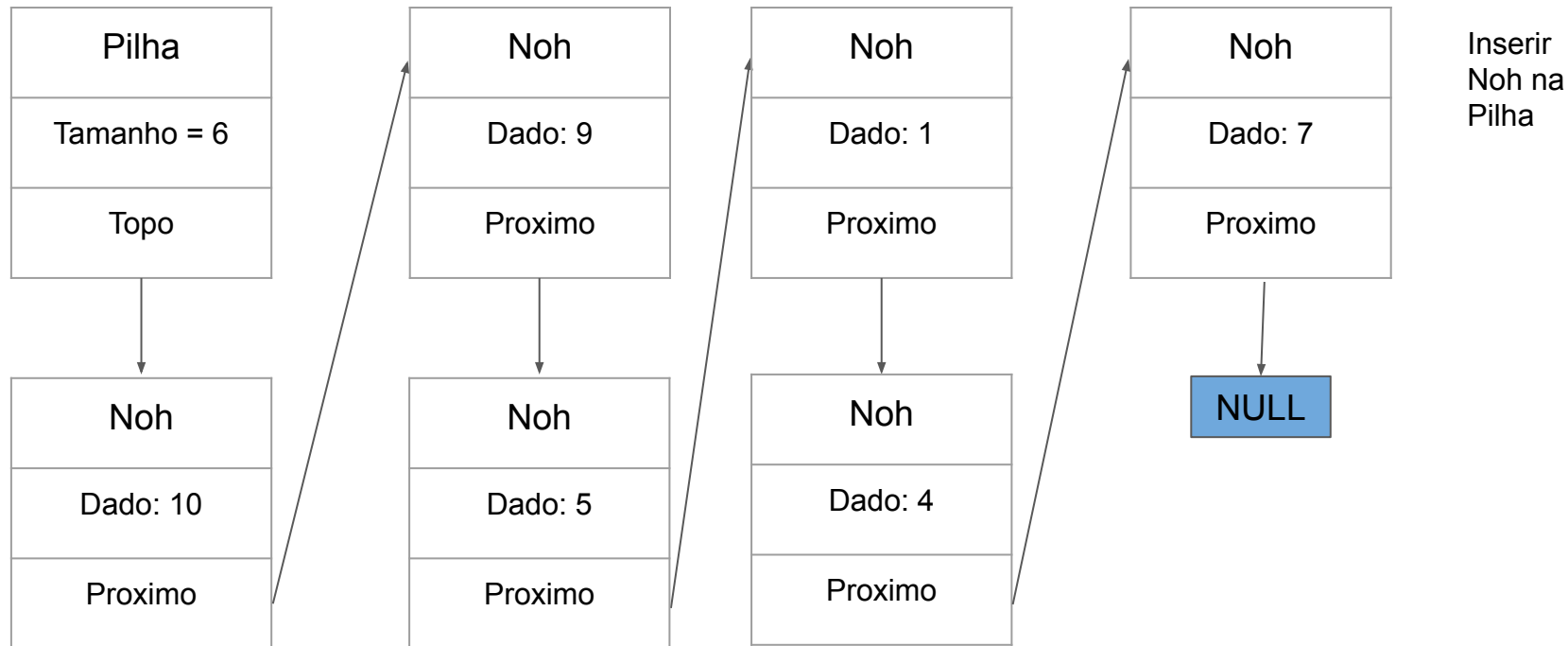
- 5 - Empilhar elementos 5, 9 e 10



Criar Noh

Questão 2

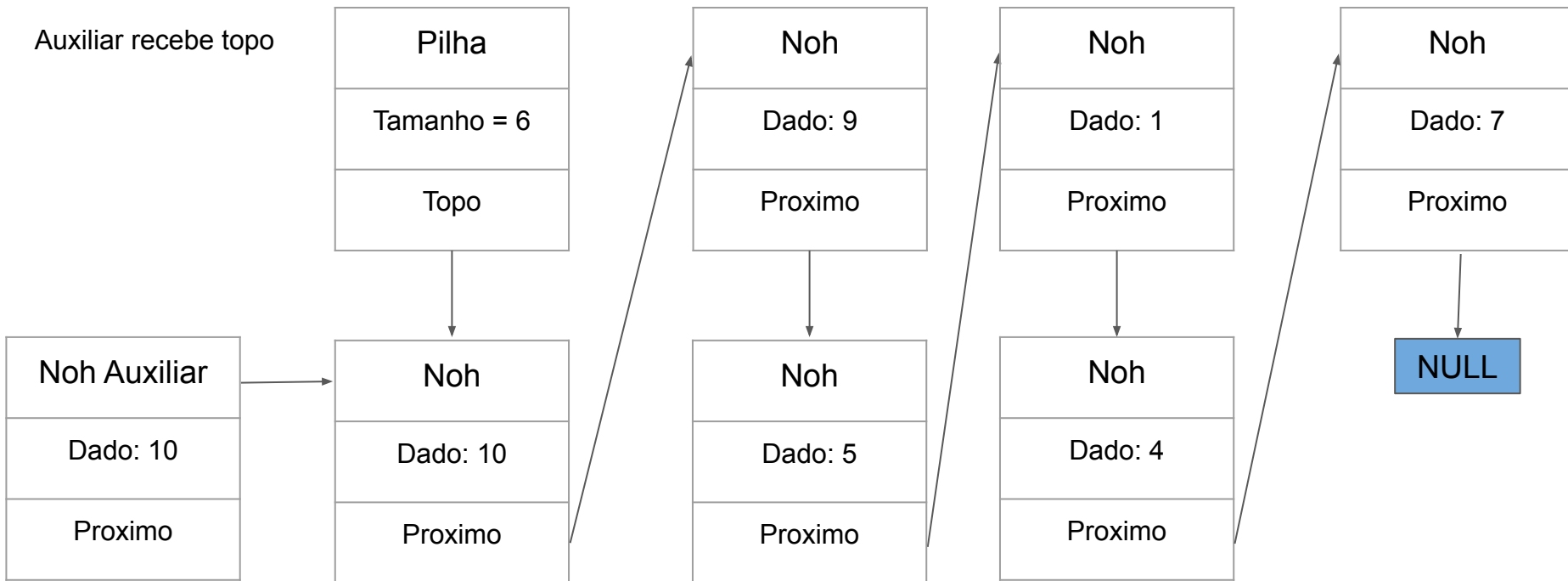
- 5 - Empilhar elementos 5, 9 e 10



Questão 2

- 6 - Desempilhar

Auxiliar recebe topo

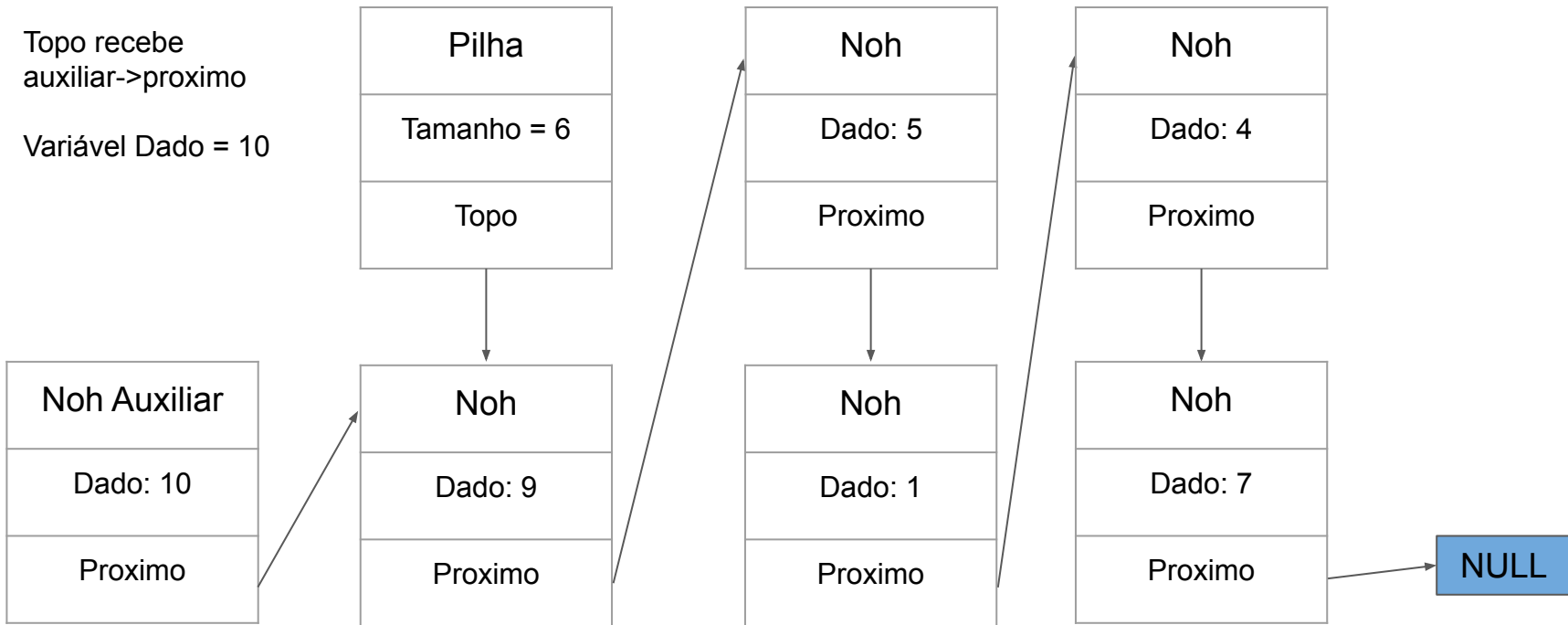


Questão 2

- 6 - Desempilhar

Topo recebe
auxiliar->proximo

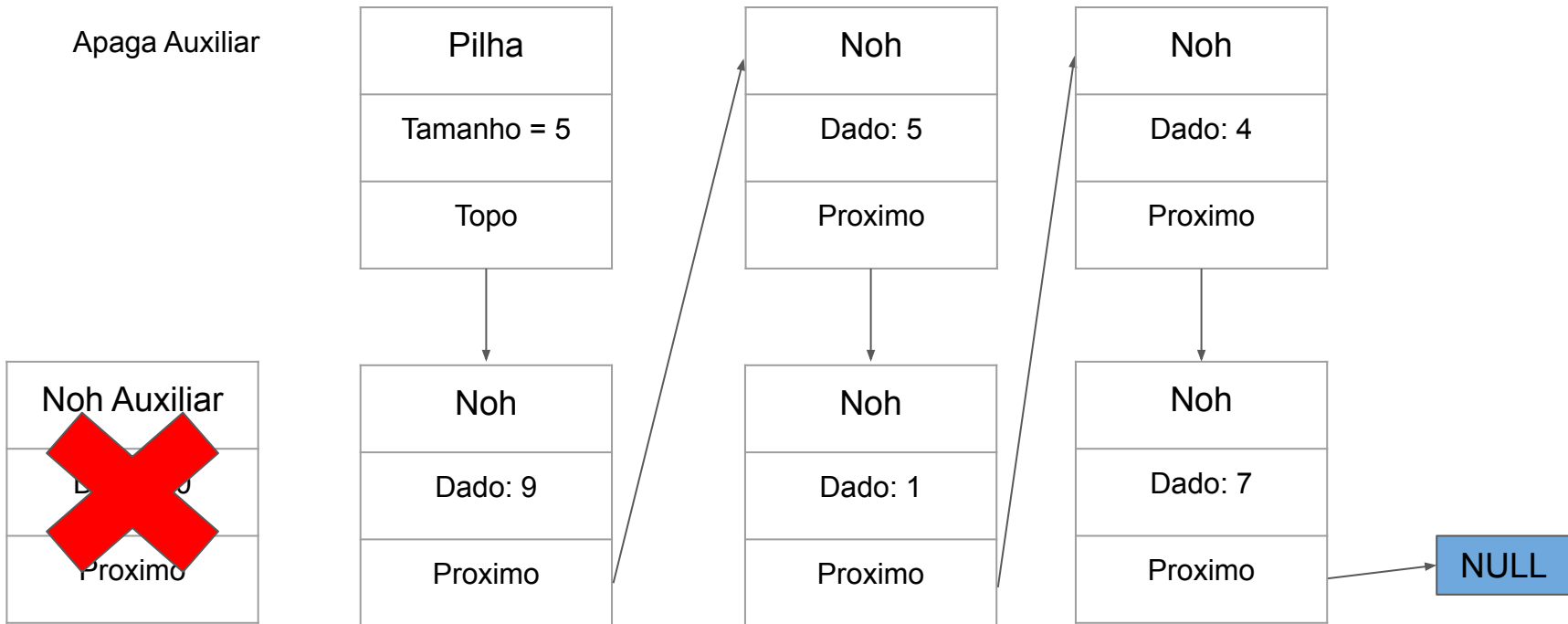
Variável Dado = 10



Questão 2

- 6 - Desempilhar

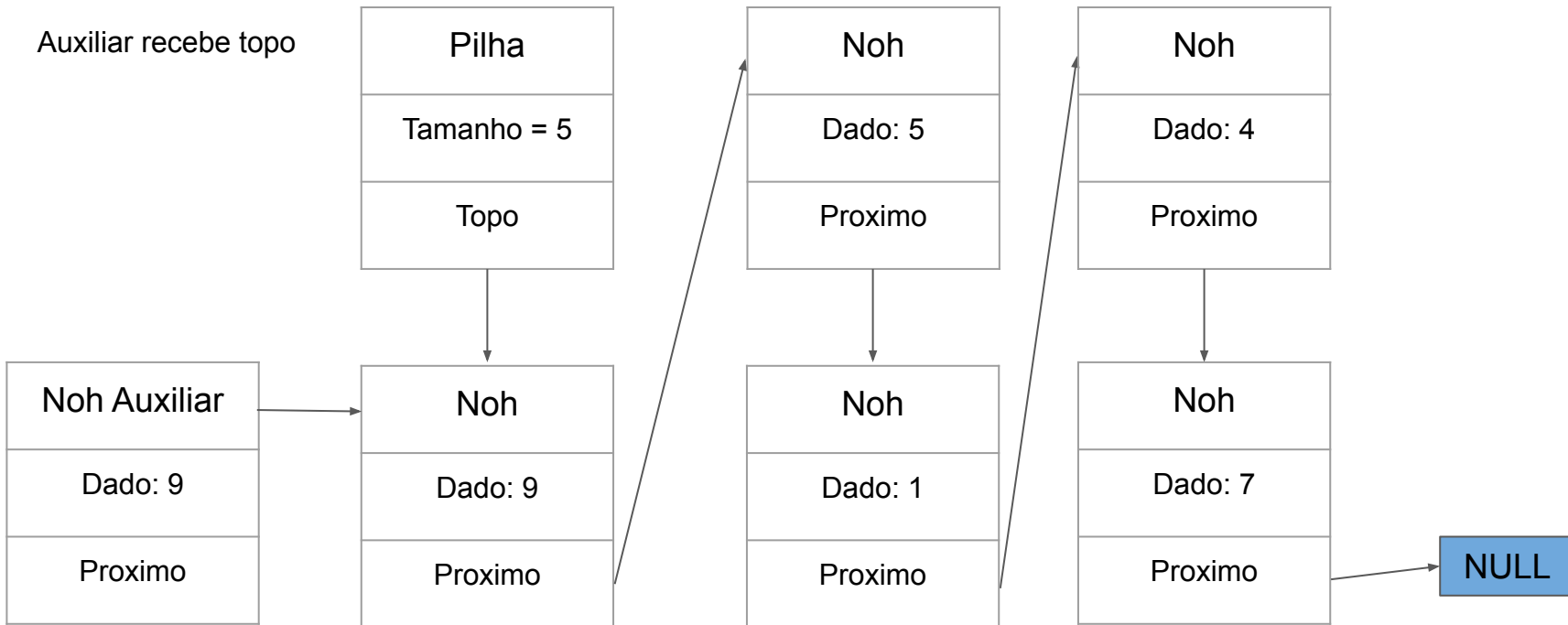
Apaga Auxiliar



Questão 2

- 7 - Desempilhar

Auxiliar recebe topo

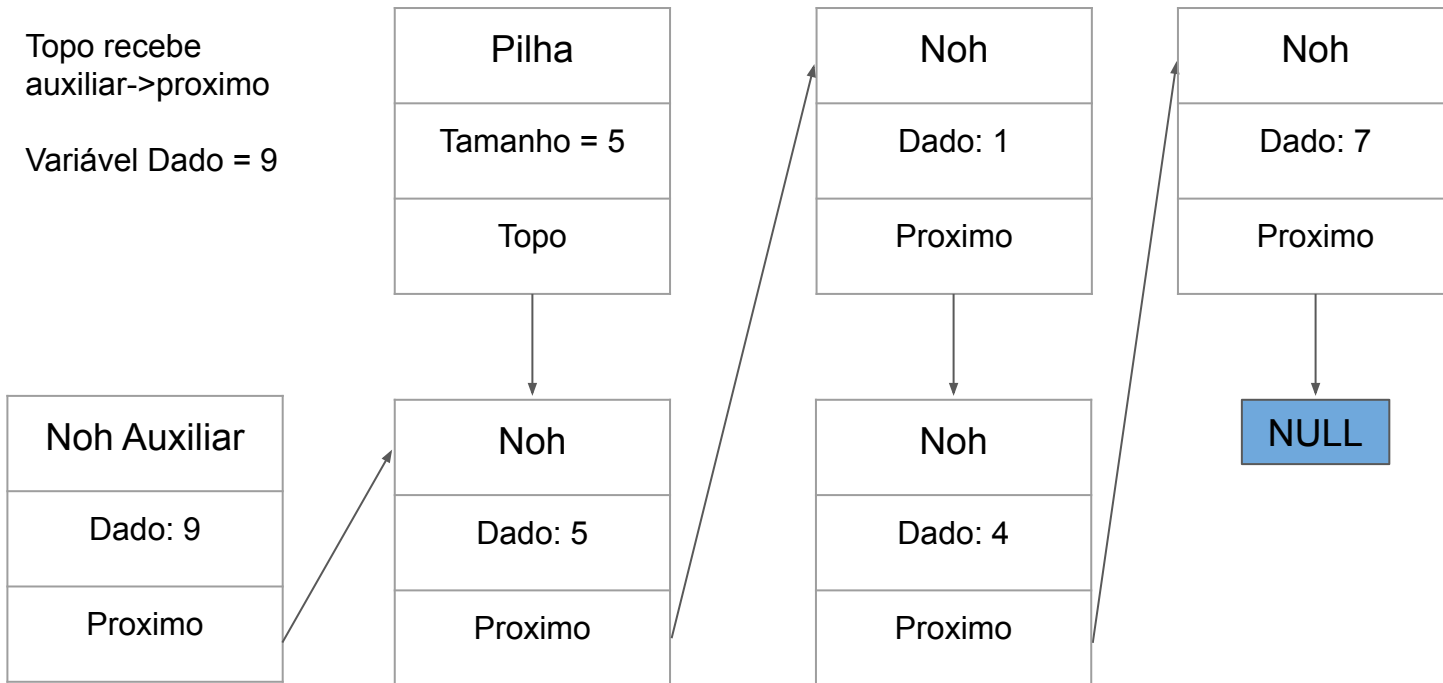


Questão 2

- 7 - Desempilhar

Topo recebe
auxiliar->proximo

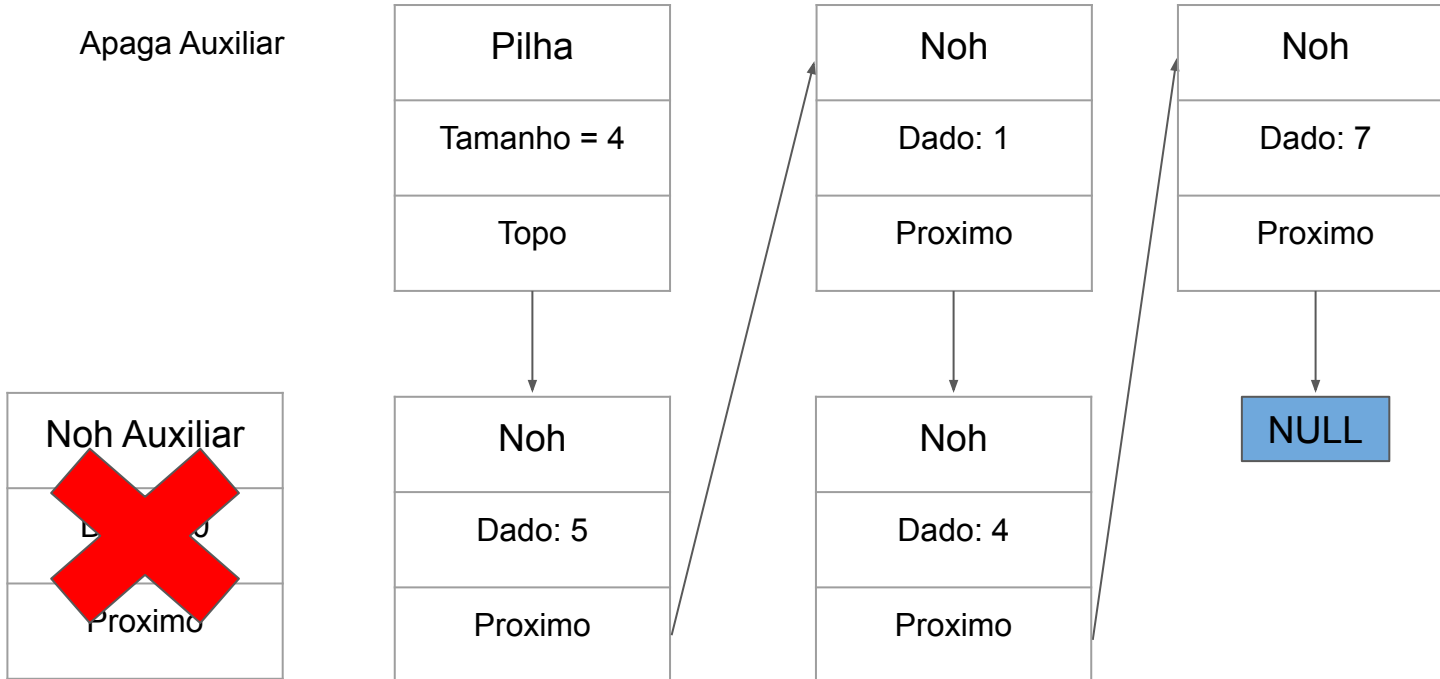
Variável Dado = 9



Questão 2

- 7 - Desempilhar

Apaga Auxiliar



Questão 4



Questão 4

Topo

1

4

7

3

9

Pilha
Principal

Topo

Pilha
Auxiliar 1

Topo

Pilha
Auxiliar 2

Topo

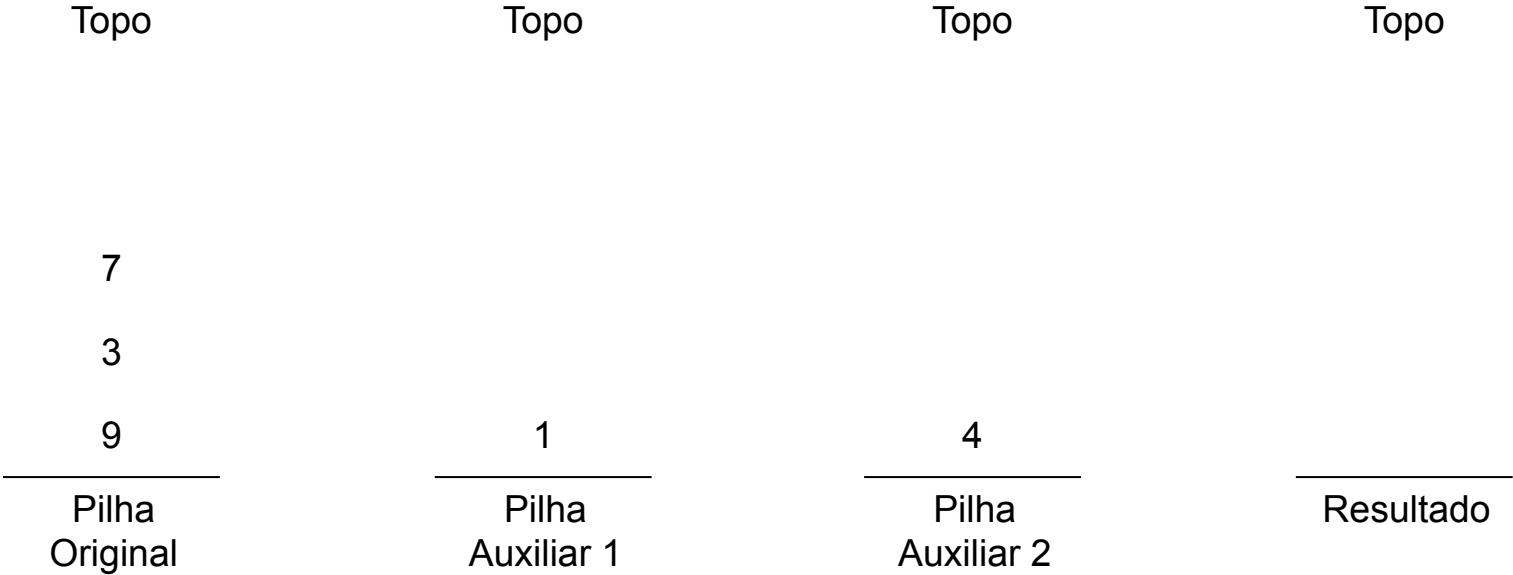
Resultado

Questão 4

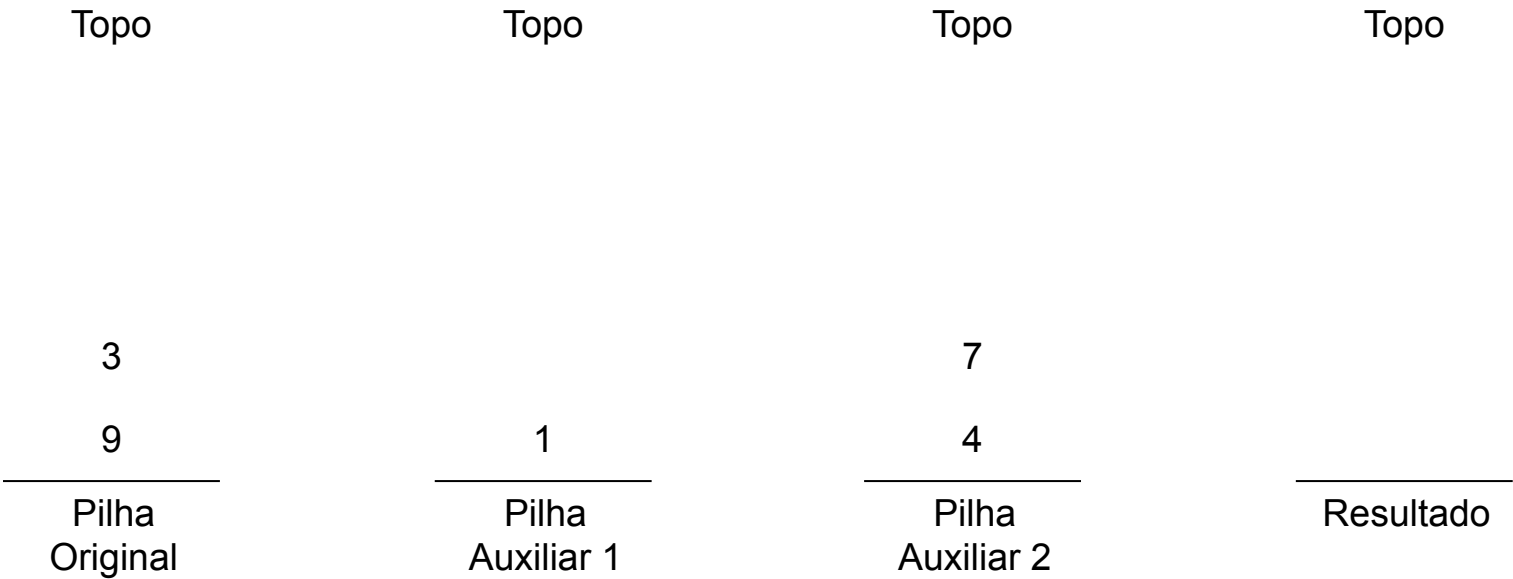
Topo	Topo	Topo	Topo
4			
7			
3			
9	1		
Pilha Original	Pilha Auxiliar 1	Pilha Auxiliar 2	Resultado

obs: Eu poderia passar o 1 direto para o resultado, mas como teoricamente não sei o que há nos elementos abaixo do topo da pilha, devo fazer a comparação entre todos os elementos.

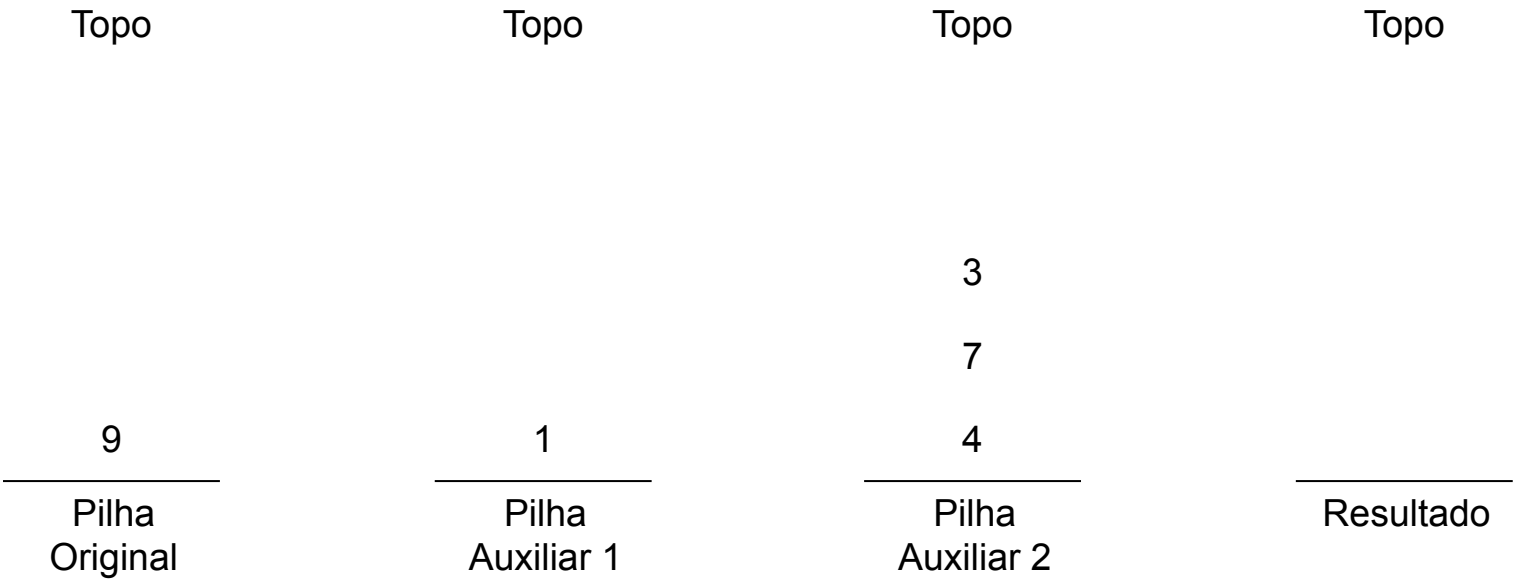
Questão 4



Questão 4



Questão 4



Foi verificado que 1 é o menor valor, então Auxiliar
1 é desempilhado e Resultado é empilhado

Questão 4

Topo

9

Pilha
Original

Topo

Pilha
Auxiliar 1

Topo

3

7

4

Pilha
Auxiliar 2

Topo

1

Resultado

Questão 4

Topo

9

Pilha
Original

Topo

3

Pilha
Auxiliar 1

Topo

7

4

Pilha
Auxiliar 2

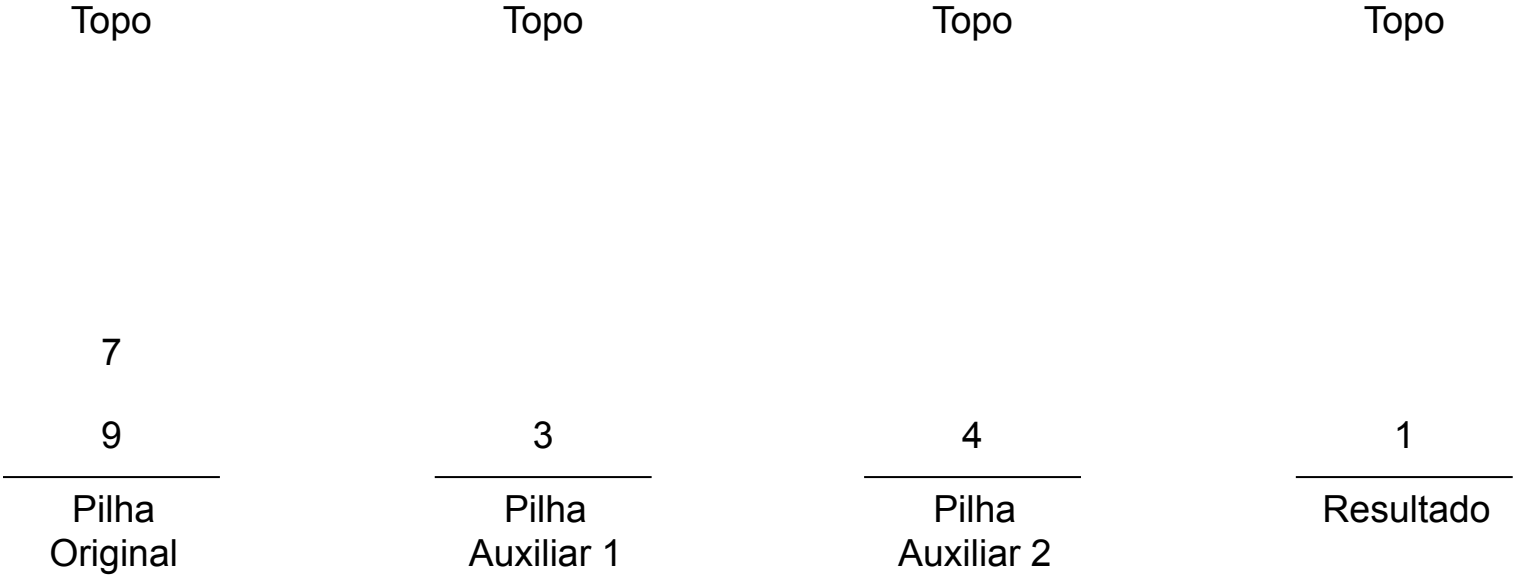
Topo

1

Resultado

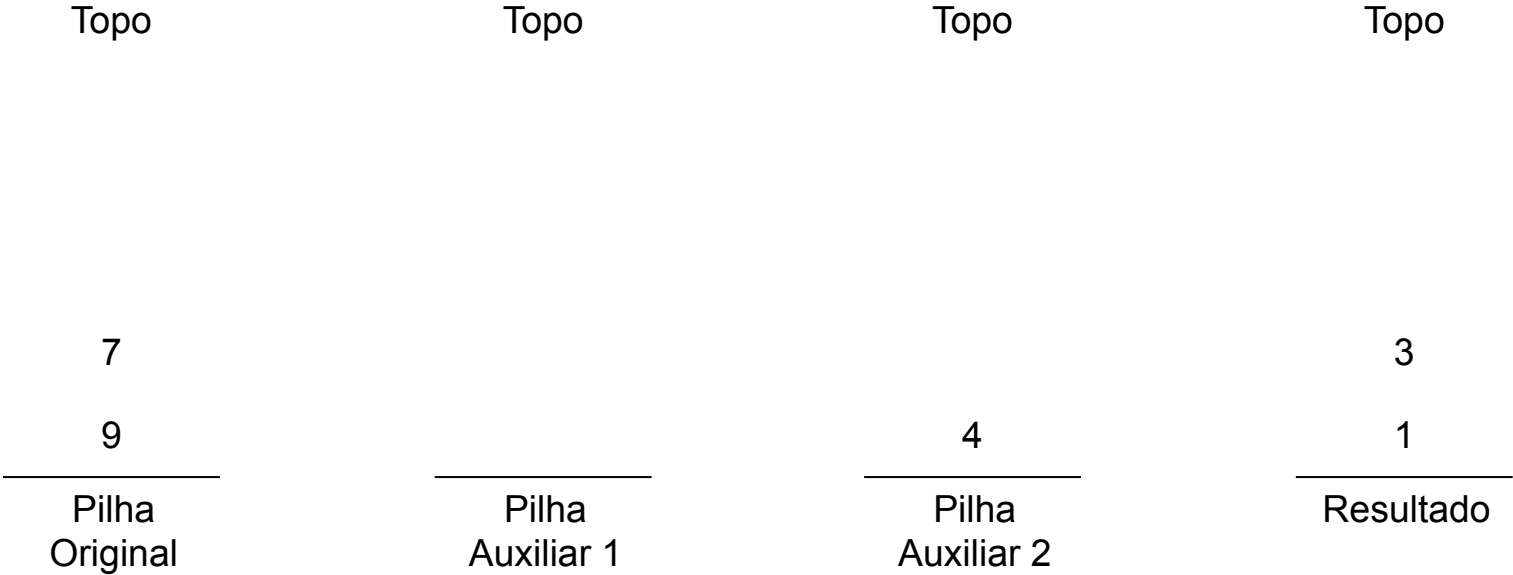
obs: Nesse caso, o dado 3 será comparado com os demais

Questão 4

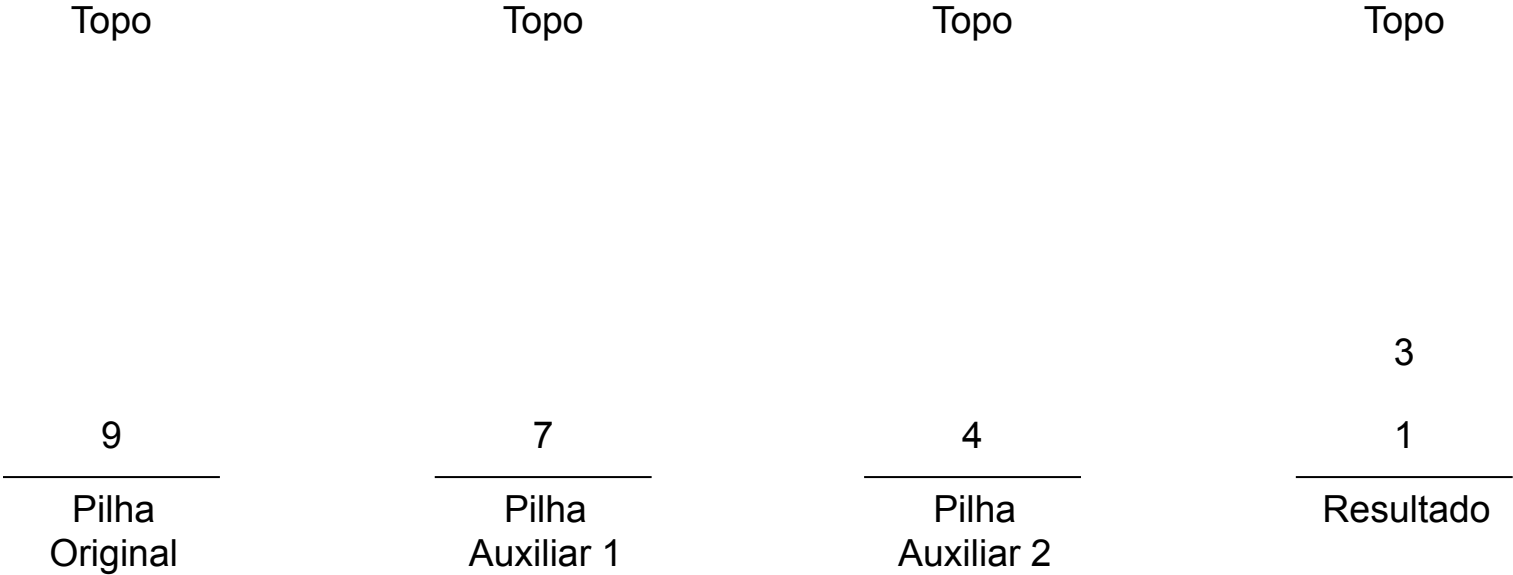


O dado 3 é menor que os demais, então:
Desempilha Auxiliar 1 e Empilha Resultado

Questão 4



Questão 4



Questão 4

Agora é comparado somente o topo das três pilhas,
dessa forma:
Desempilha Auxiliar 2 e Empilha Resultado

Topo

9

Pilha
Original

Topo

7

Pilha
Auxiliar 1

Topo

Pilha
Auxiliar 2

Topo

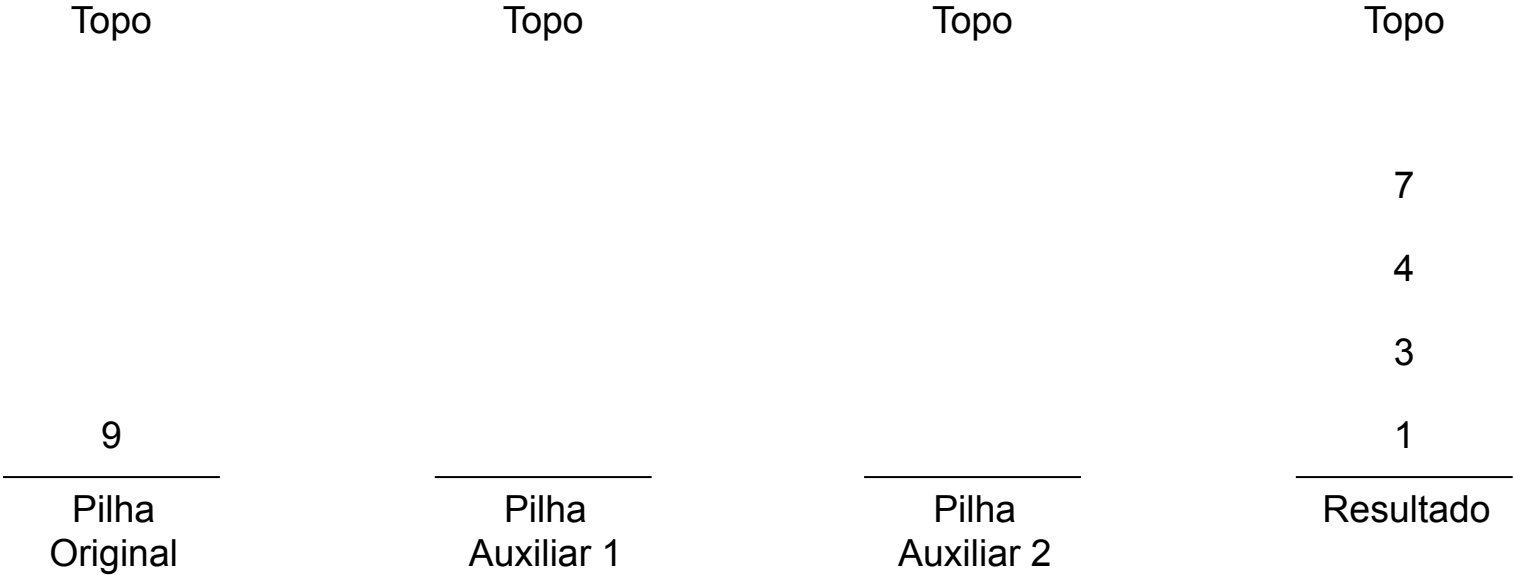
4

3

1

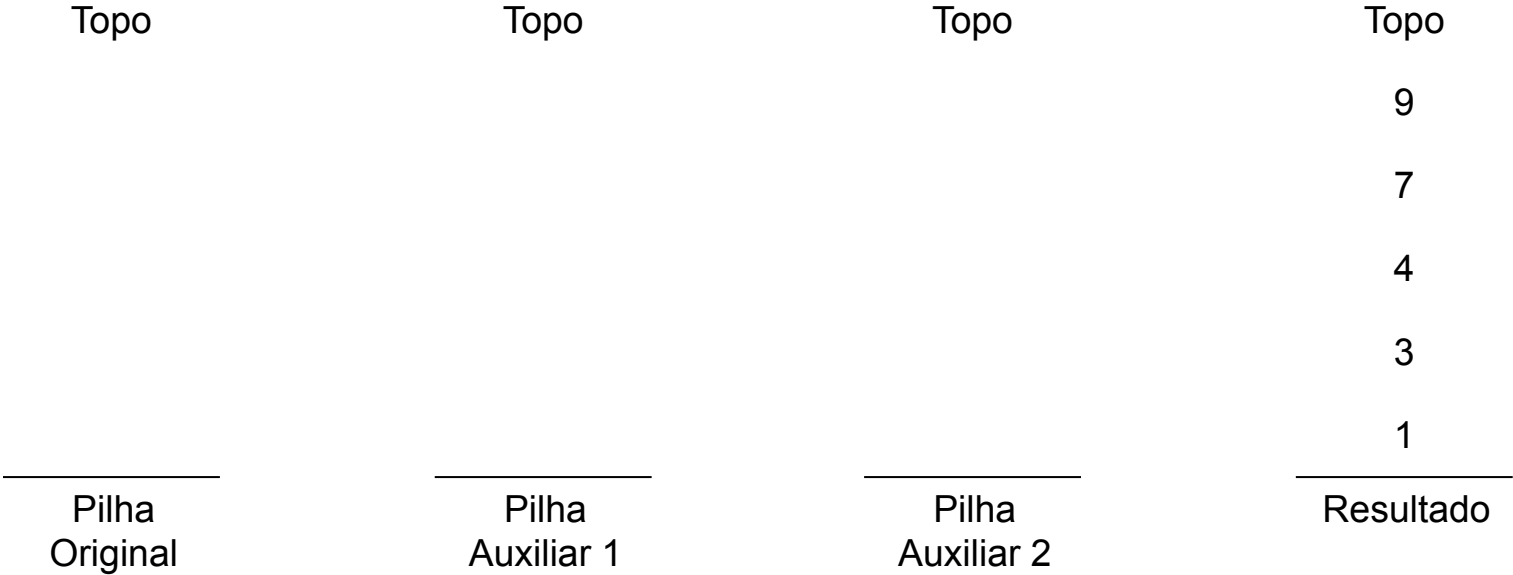
Resultado

Questão 4



Questão 4

FIM!

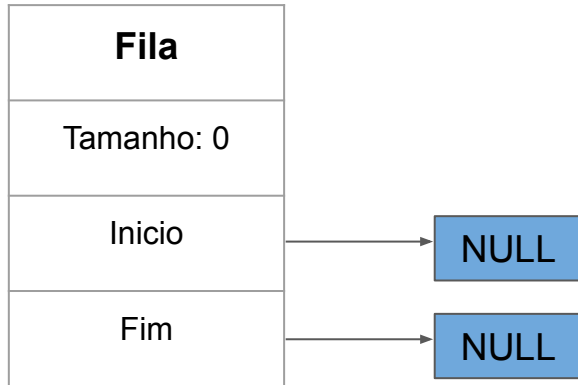


Questão 8



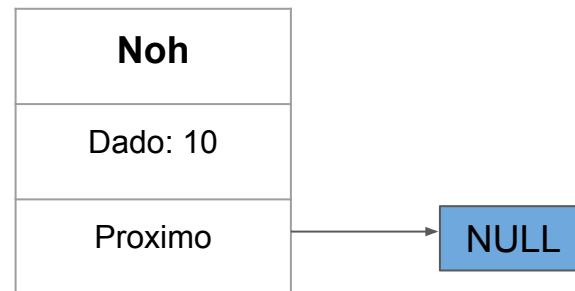
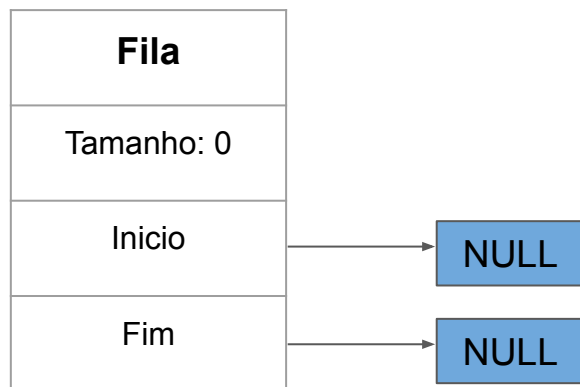
Questão 8

- 0 -Criar Fila



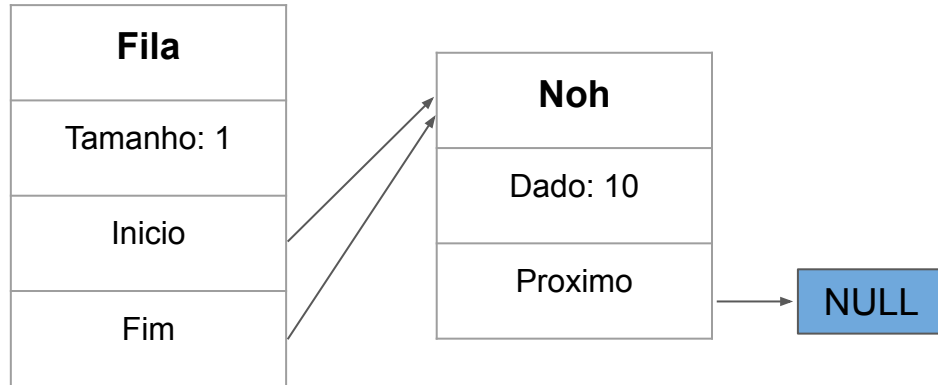
Questão 8

- 1. Enfileirar elemento 10



Questão 8

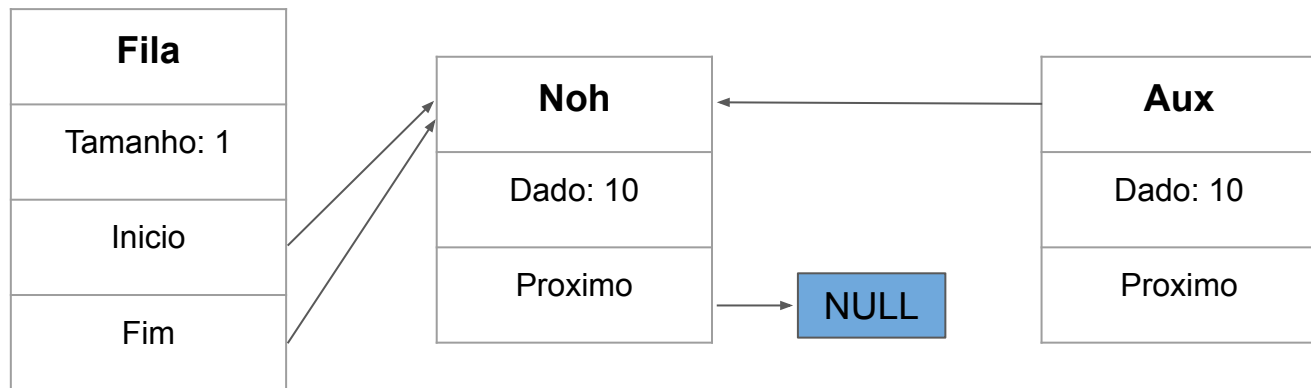
- 1. Enfileirar elemento 10



Aux recebe o Noh de Início (que no caso é igual ao fim)

Questão 8

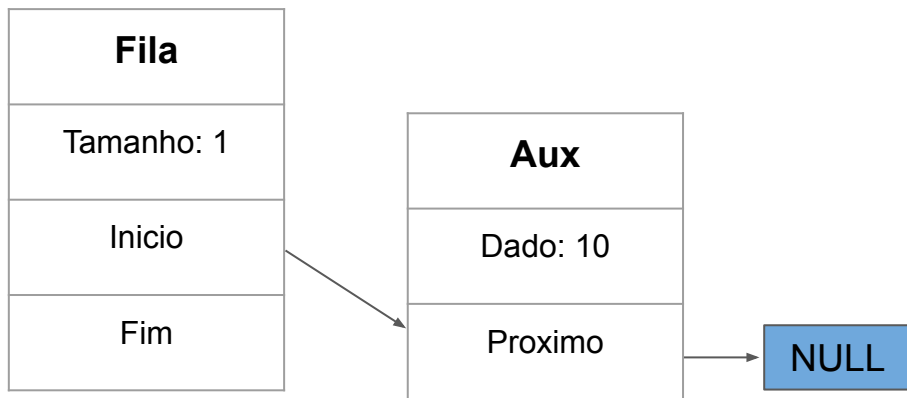
- 2 - Desenfileirar



Inicio recebe aux.proximo (NULL)
Dado=3

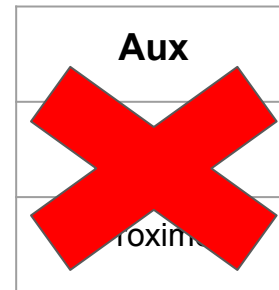
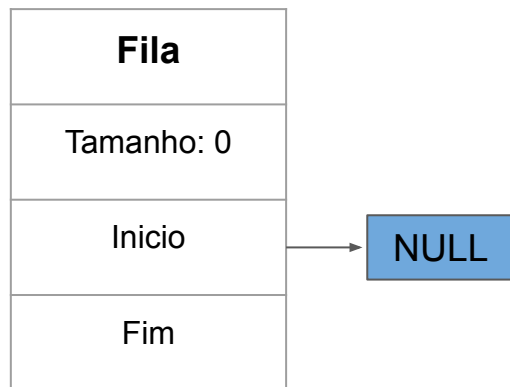
Questão 8

- 2 - Desenfileirar



Questão 8

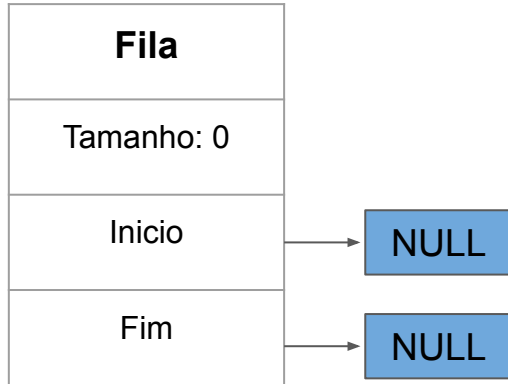
- 2 - Desenfileirar



Como a fila ficou vazia, Fim recebe NULL

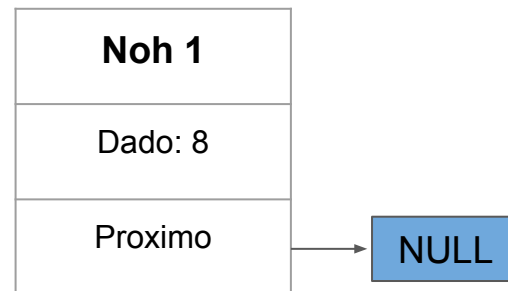
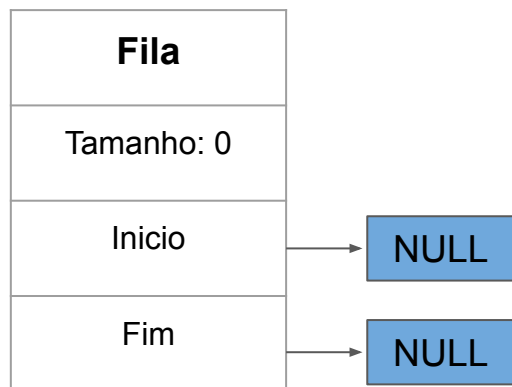
Questão 8

- 2 - Desenfileirar



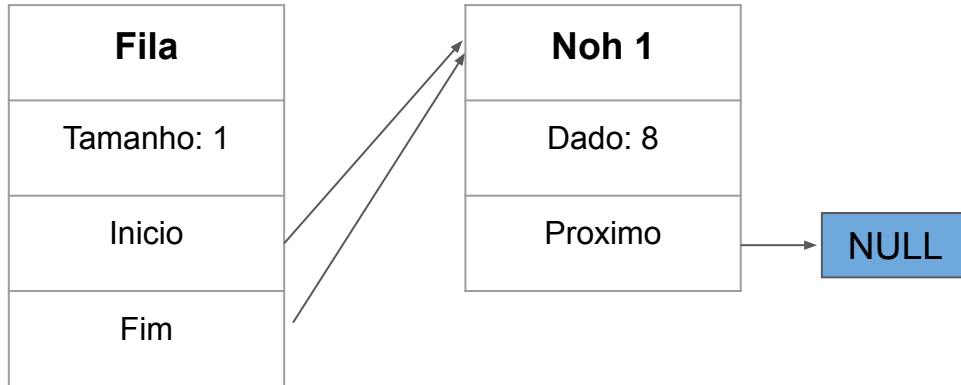
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



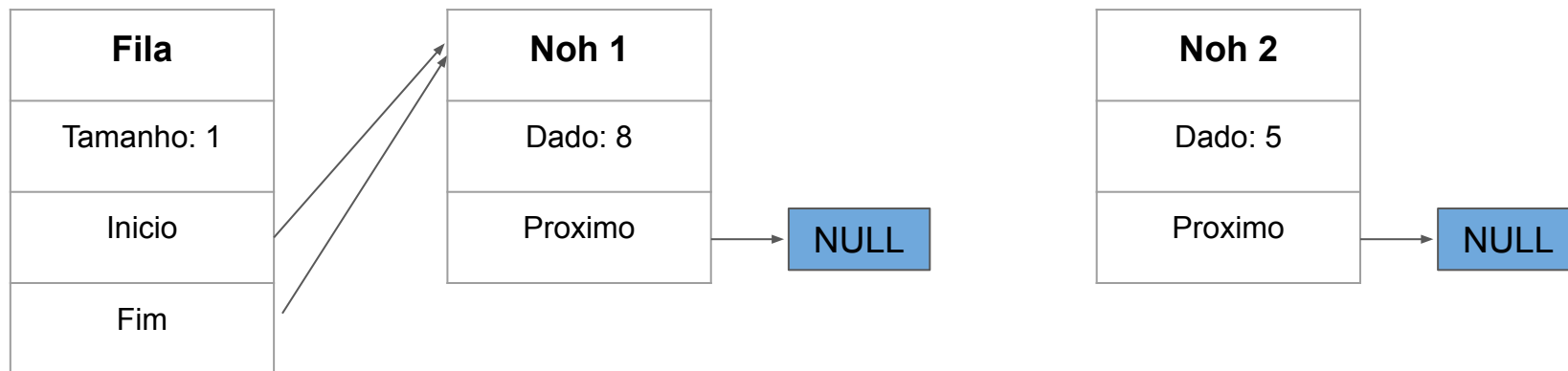
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



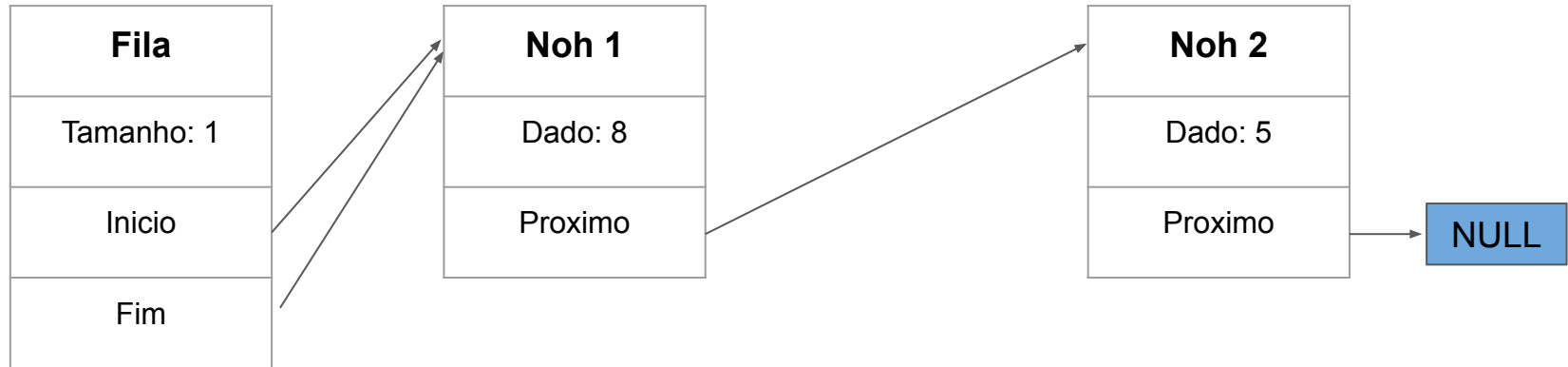
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



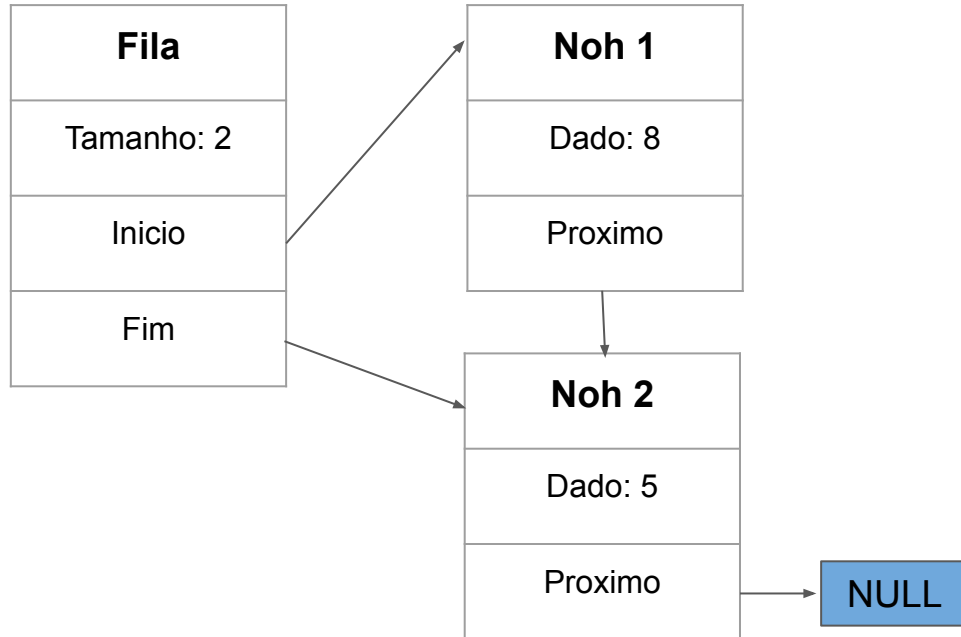
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



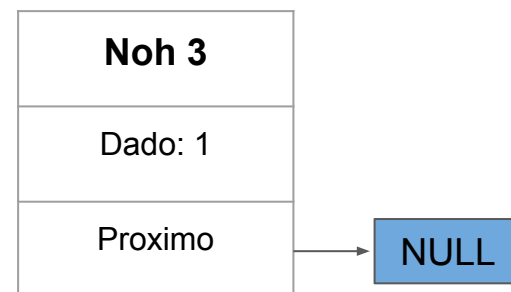
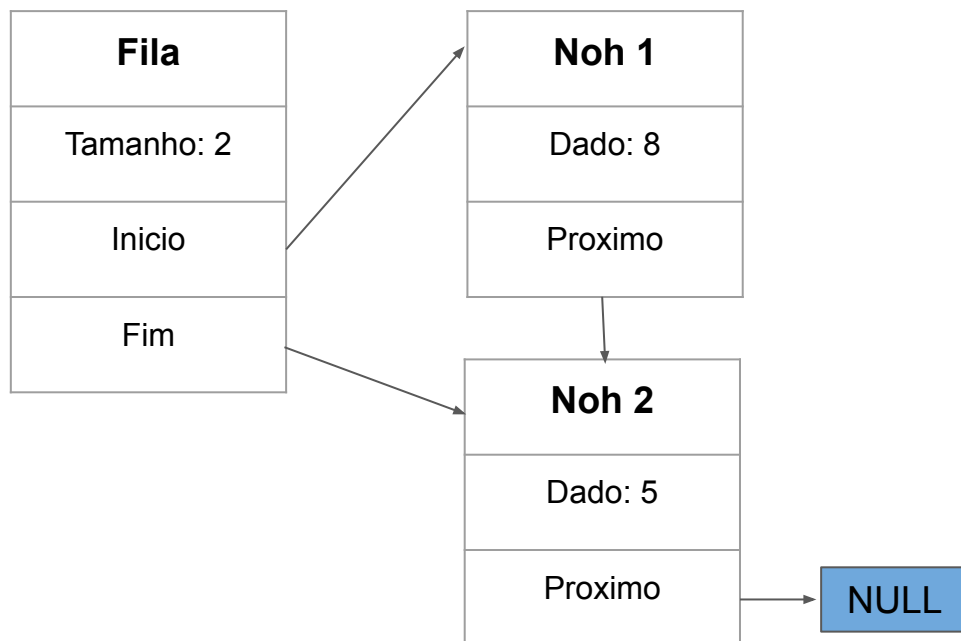
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



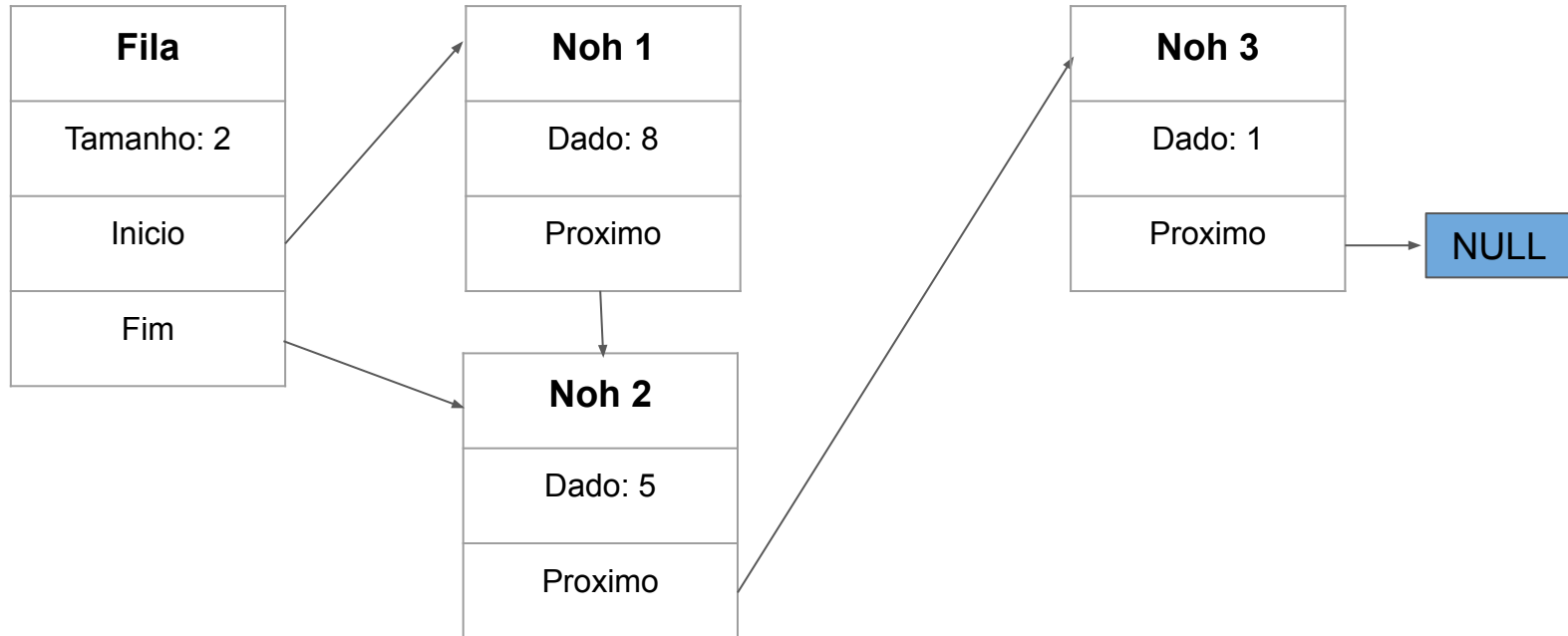
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



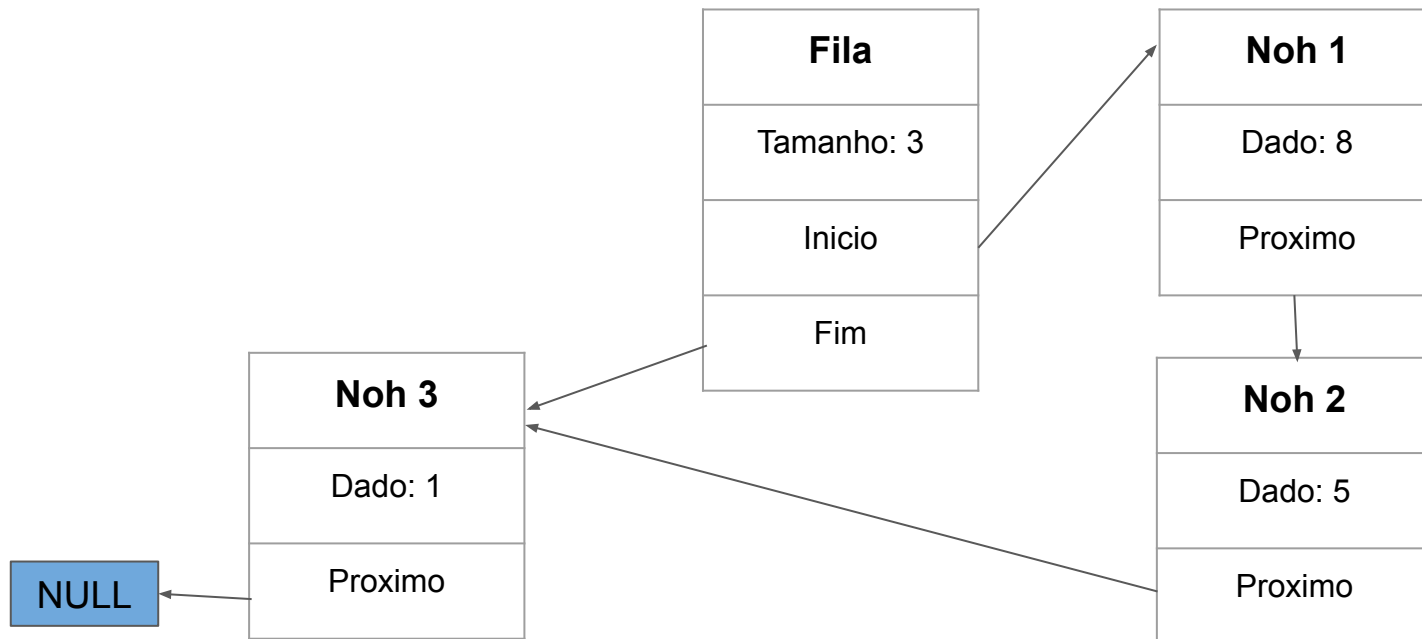
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



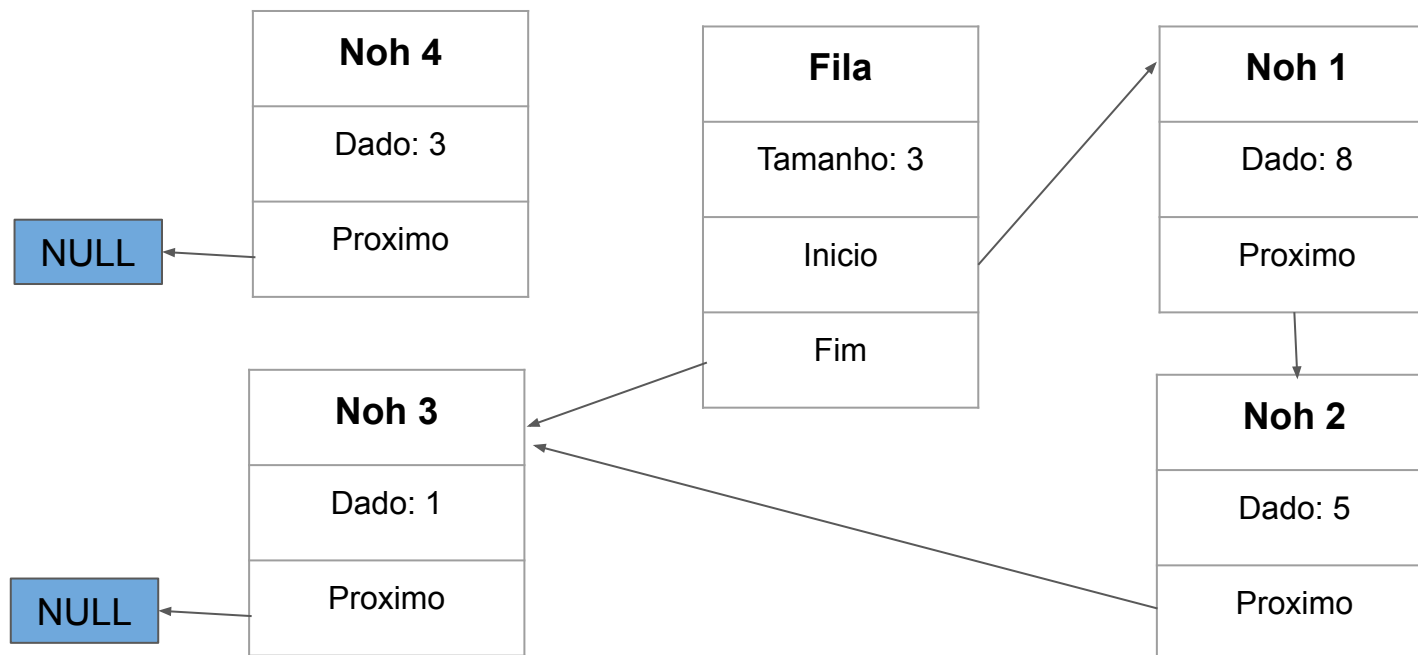
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



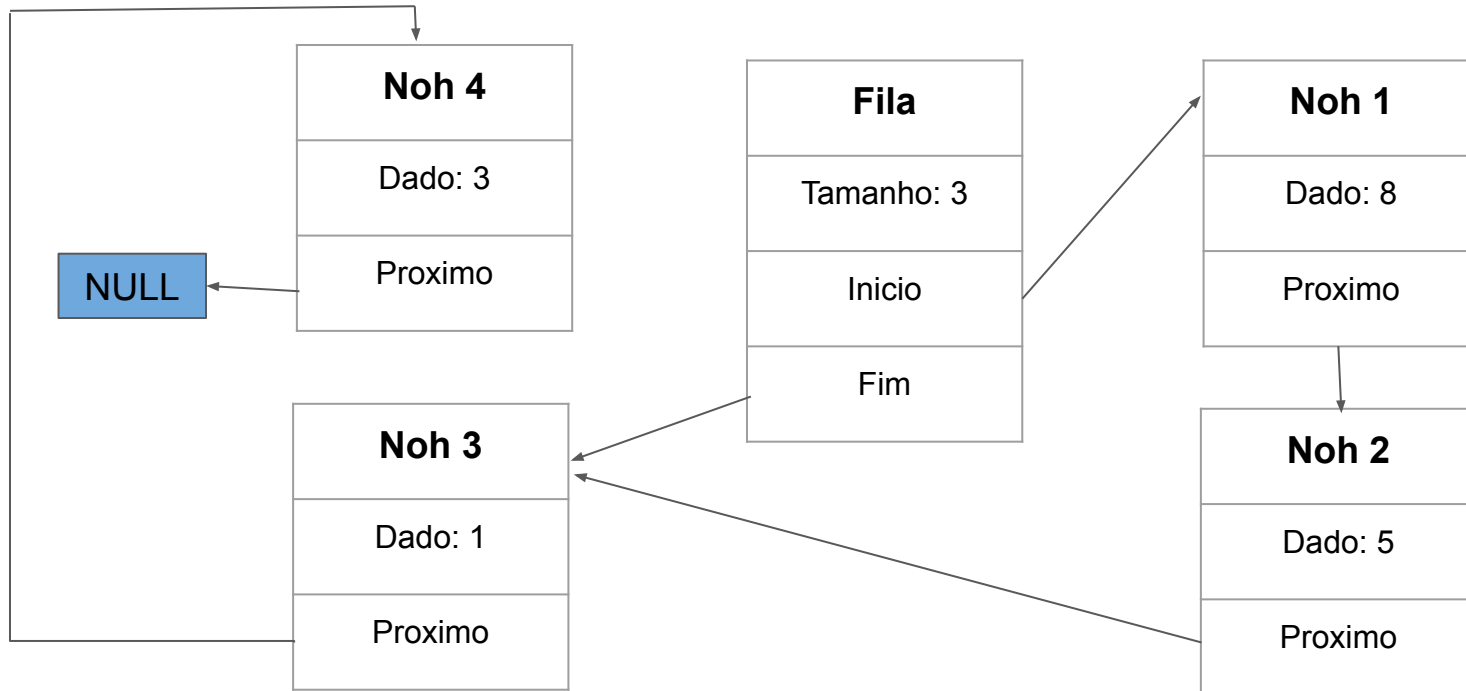
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



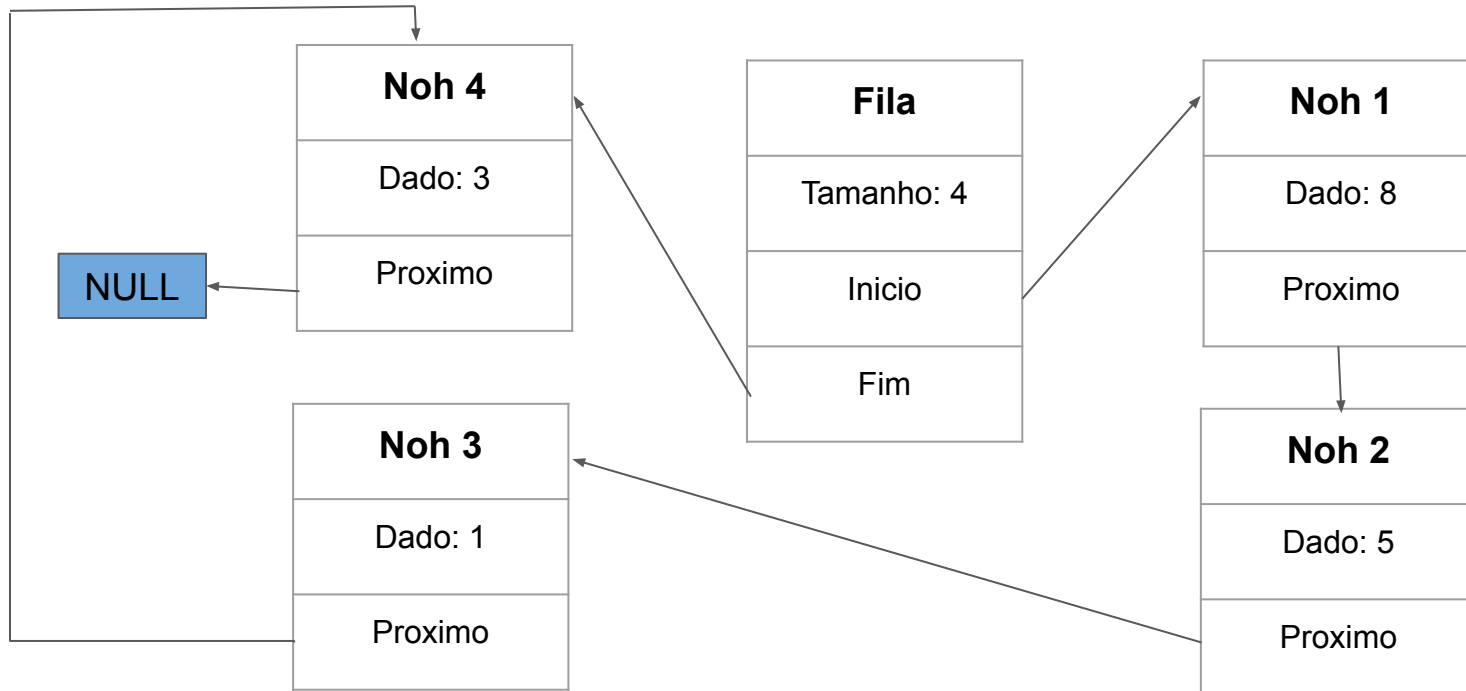
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



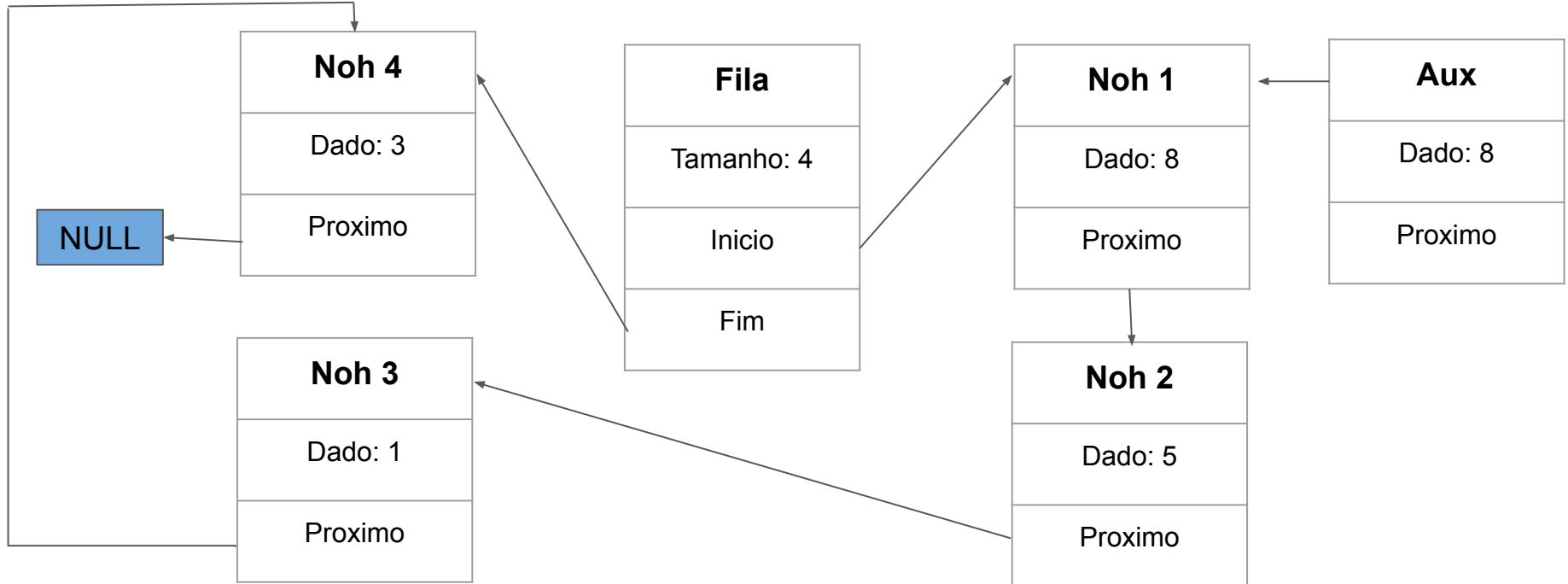
Questão 8

- 3. Enfileirar elementos 8, 5, 1, 3



Questão 8

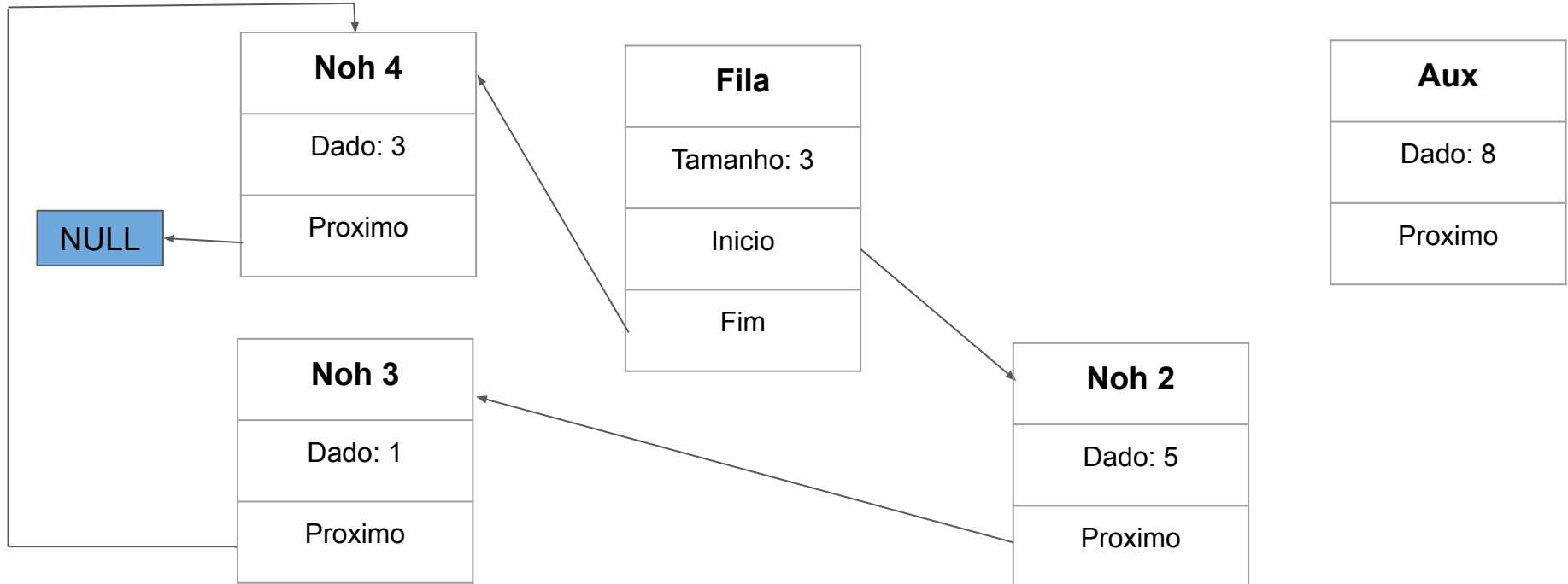
- 4. Desenfileirar



Inicio recebe aux.proximo
Tamanho--

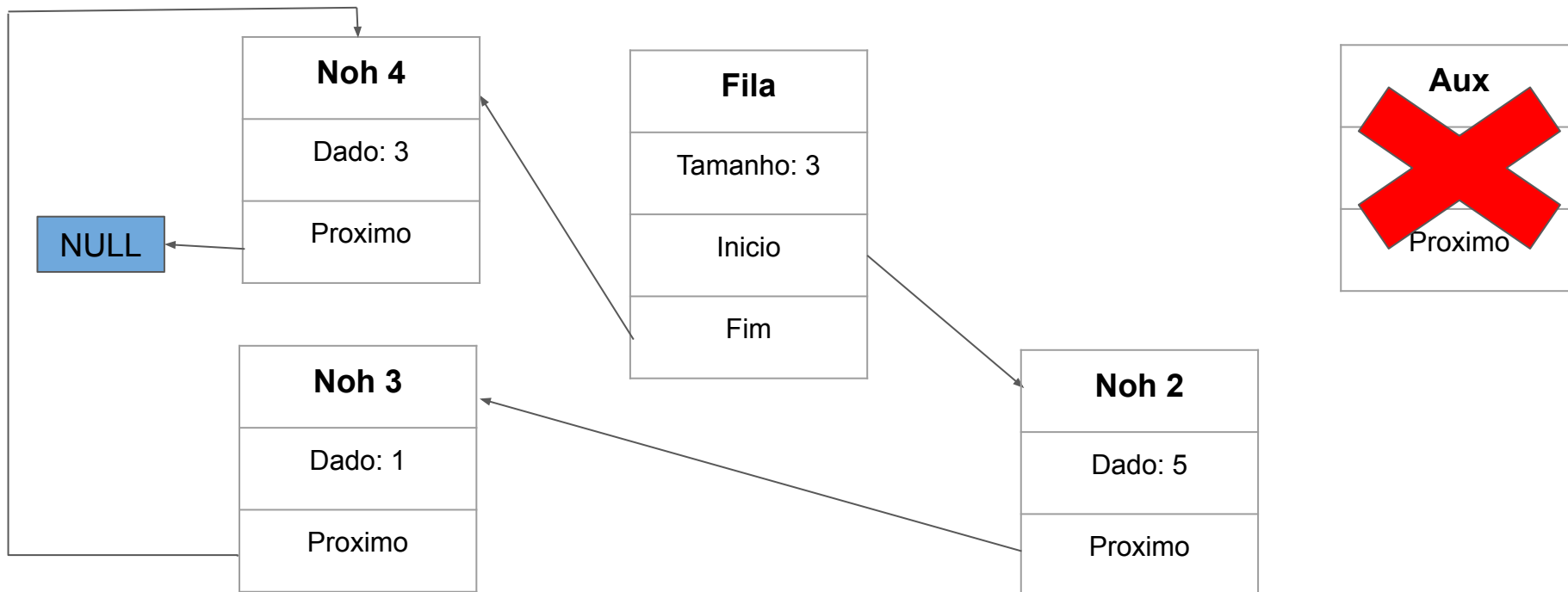
Questão 8

- 4. Desenfileirar



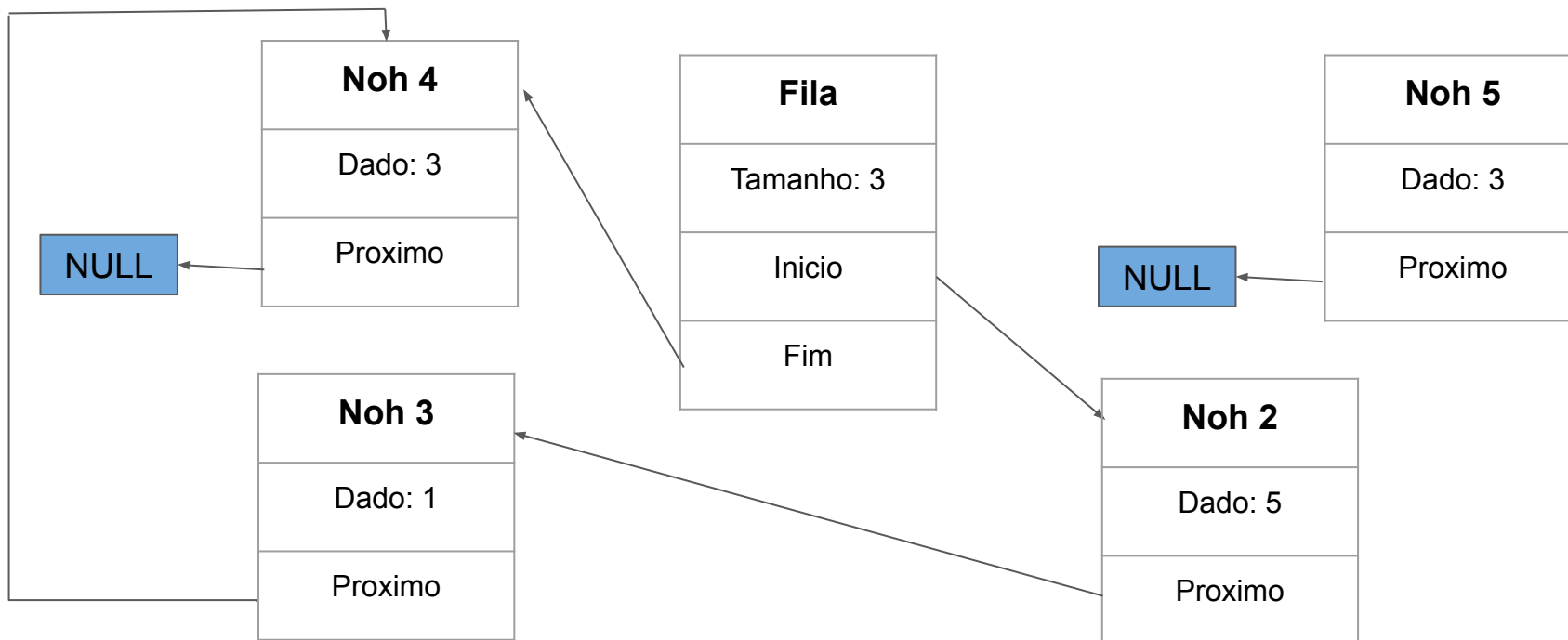
Questão 8

- 4. Desenfileirar



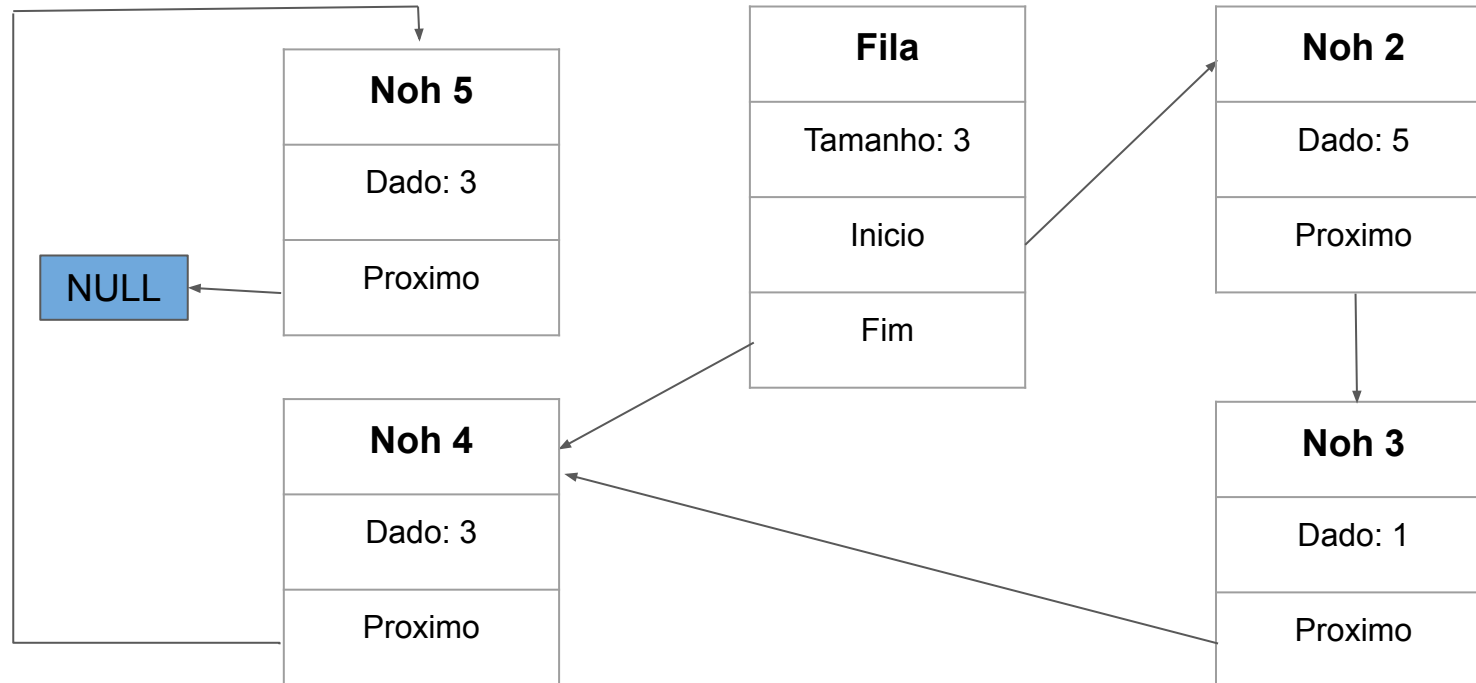
Questão 8

- 5. Enfileirar elementos 3, 9, 10



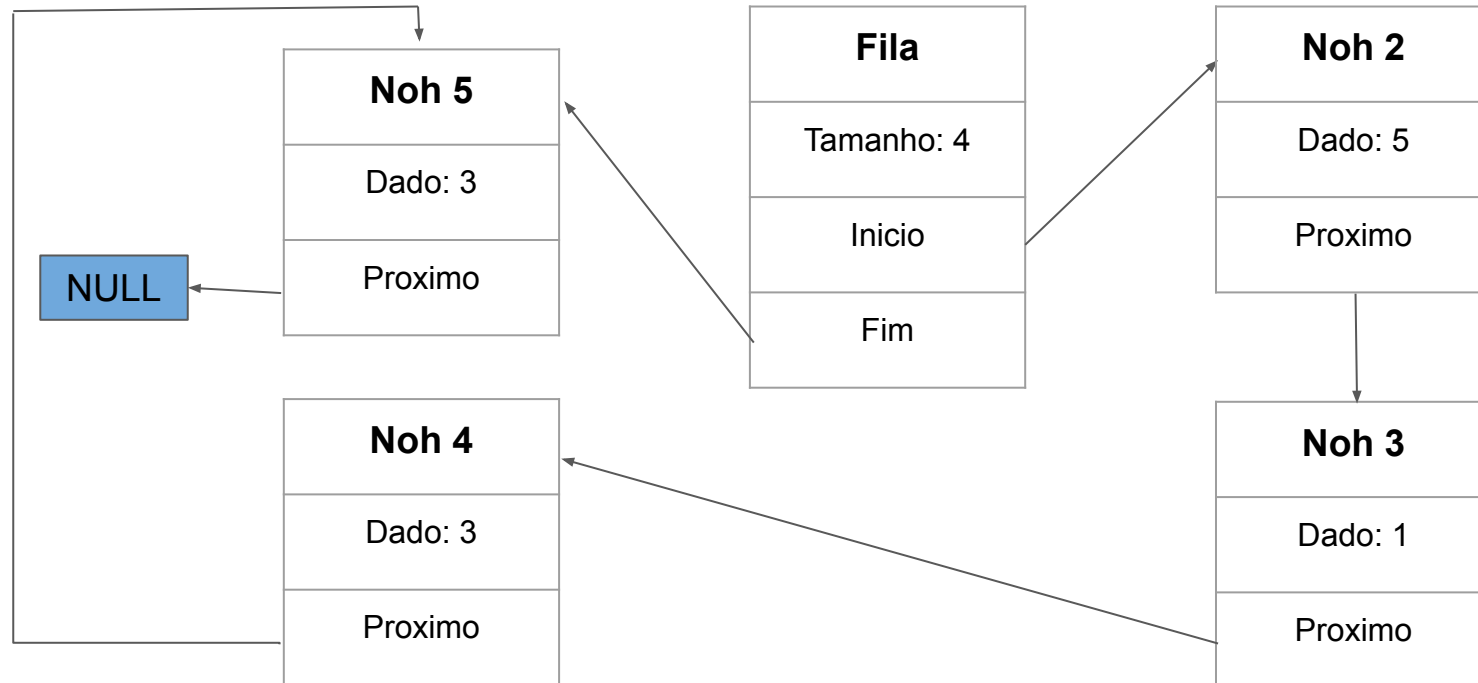
Questão 8

- 5. Enfileirar elementos 3, 9, 10



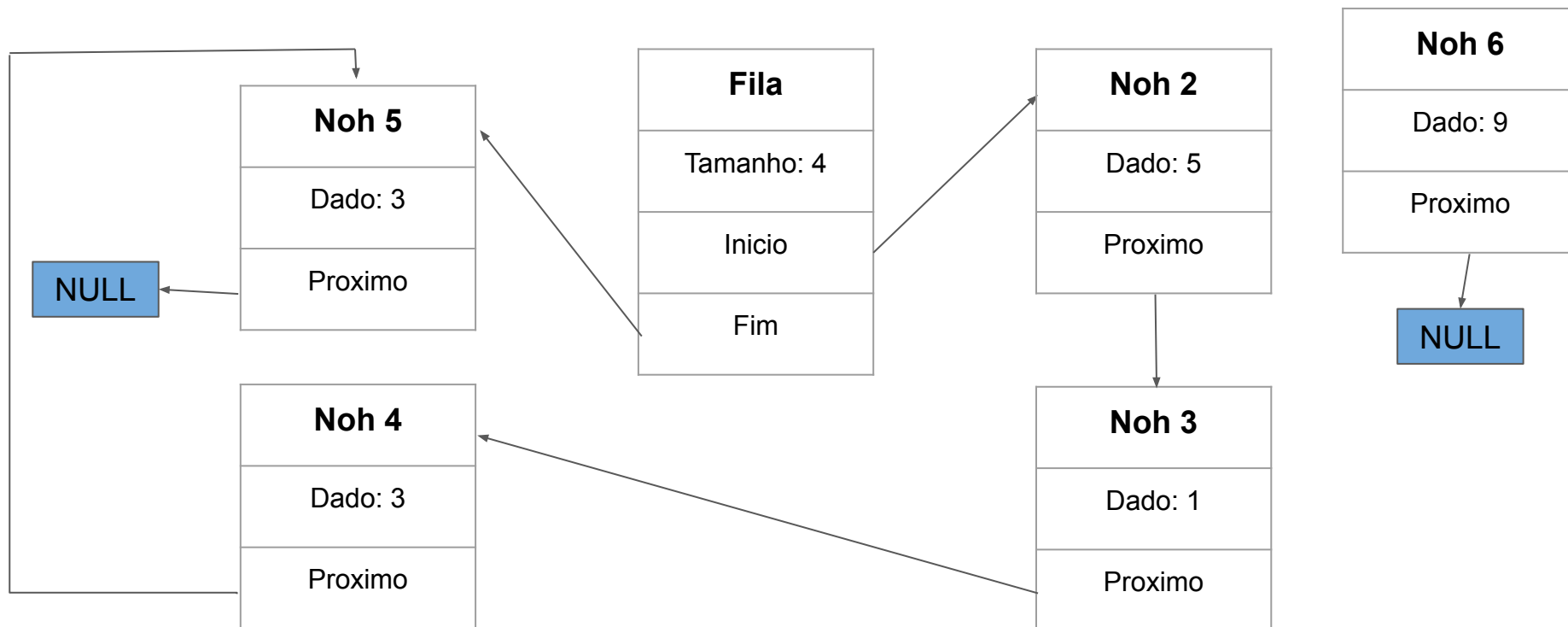
Questão 8

- 5. Enfileirar elementos 3, 9, 10



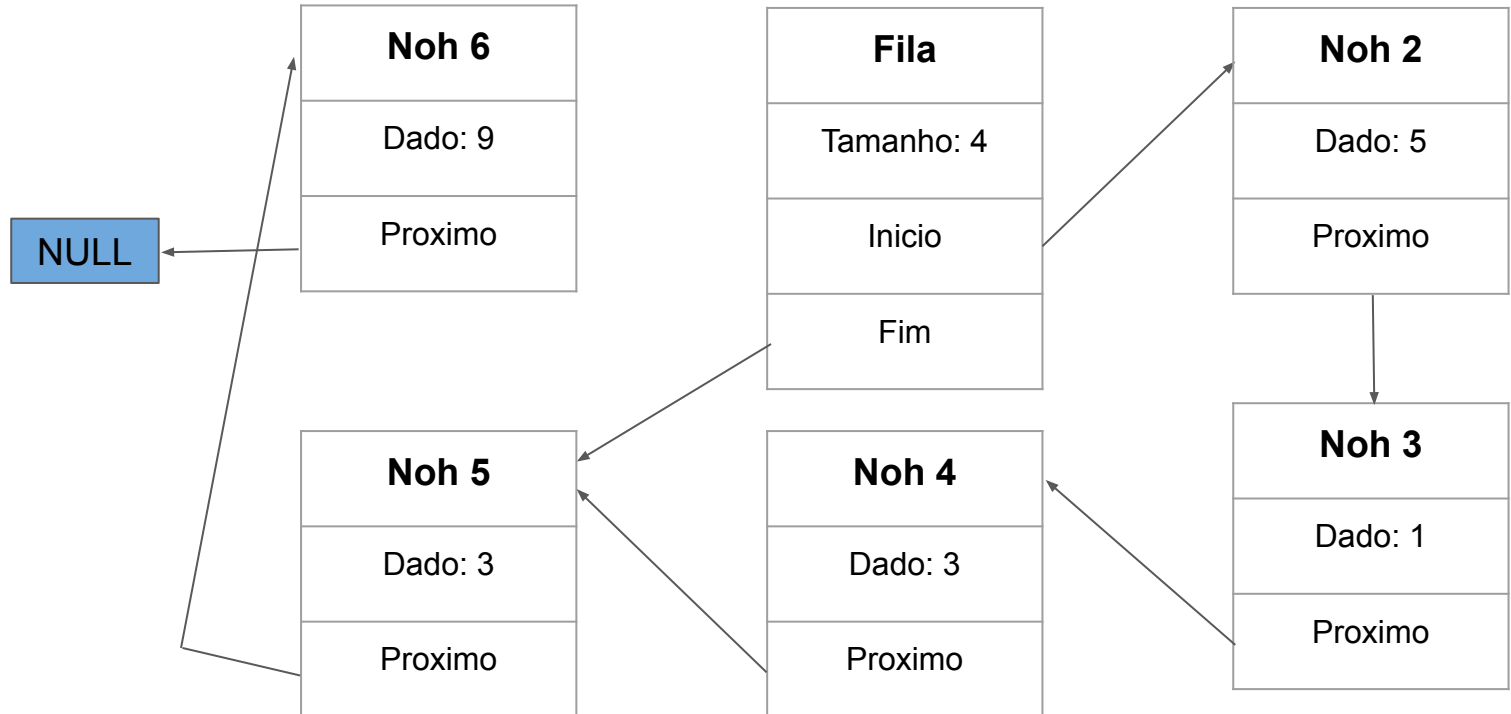
Questão 8

- 5. Enfileirar elementos 3, 9, 10



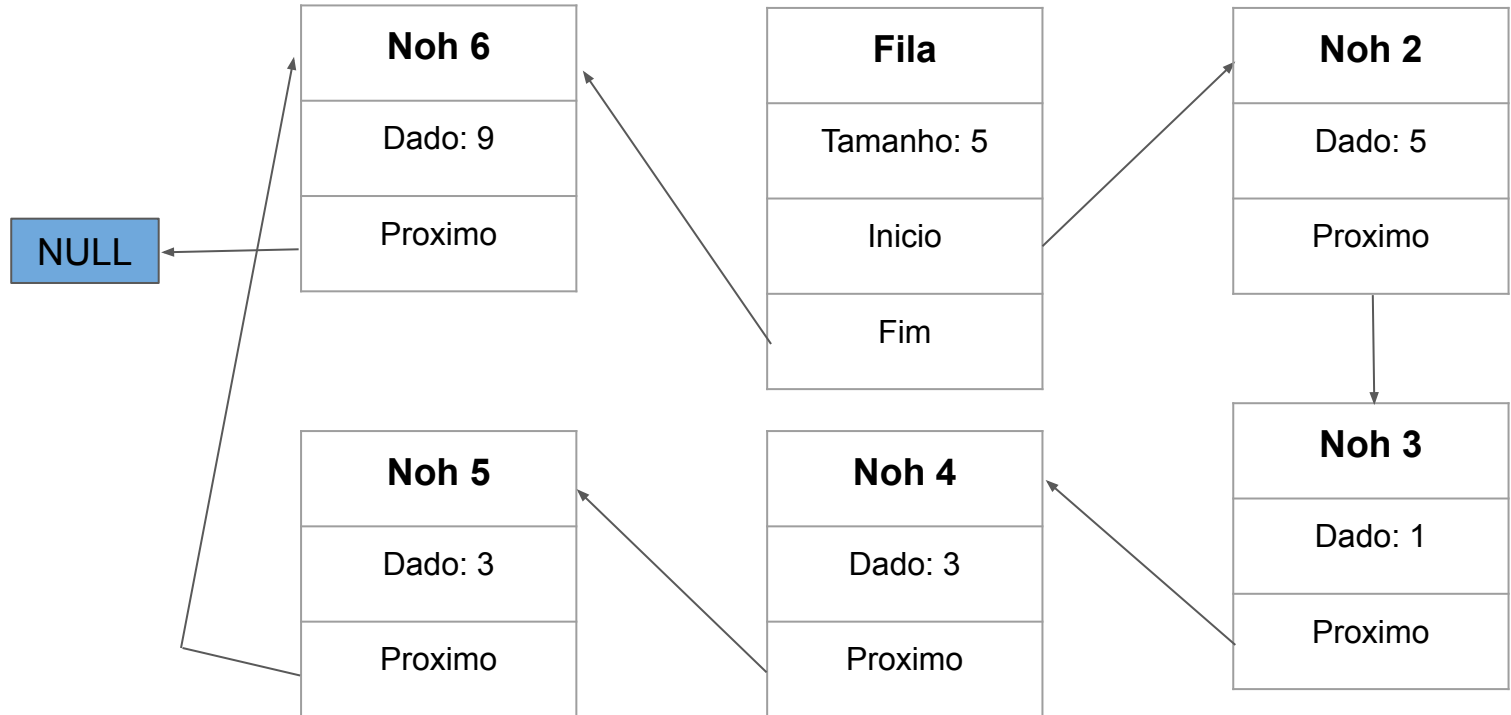
Questão 8

- 5. Enfileirar elementos 3, 9, 10



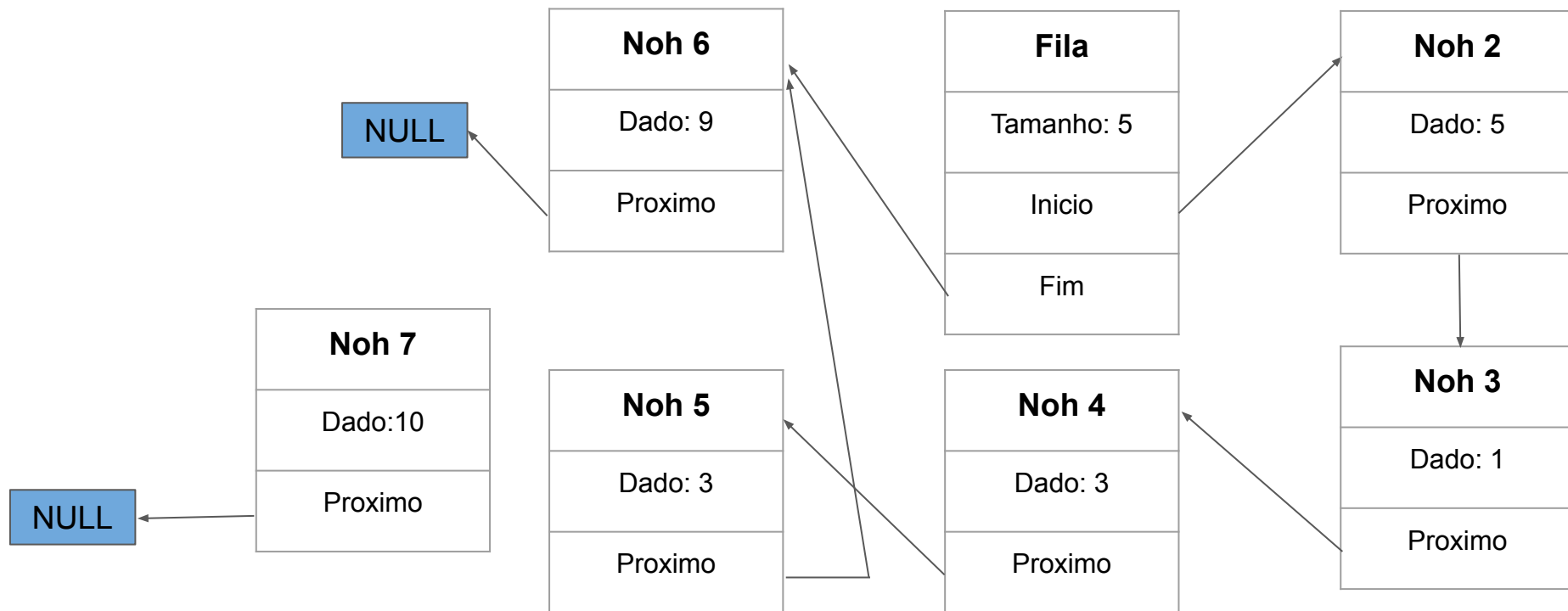
Questão 8

- 5. Enfileirar elementos 3, 9, 10



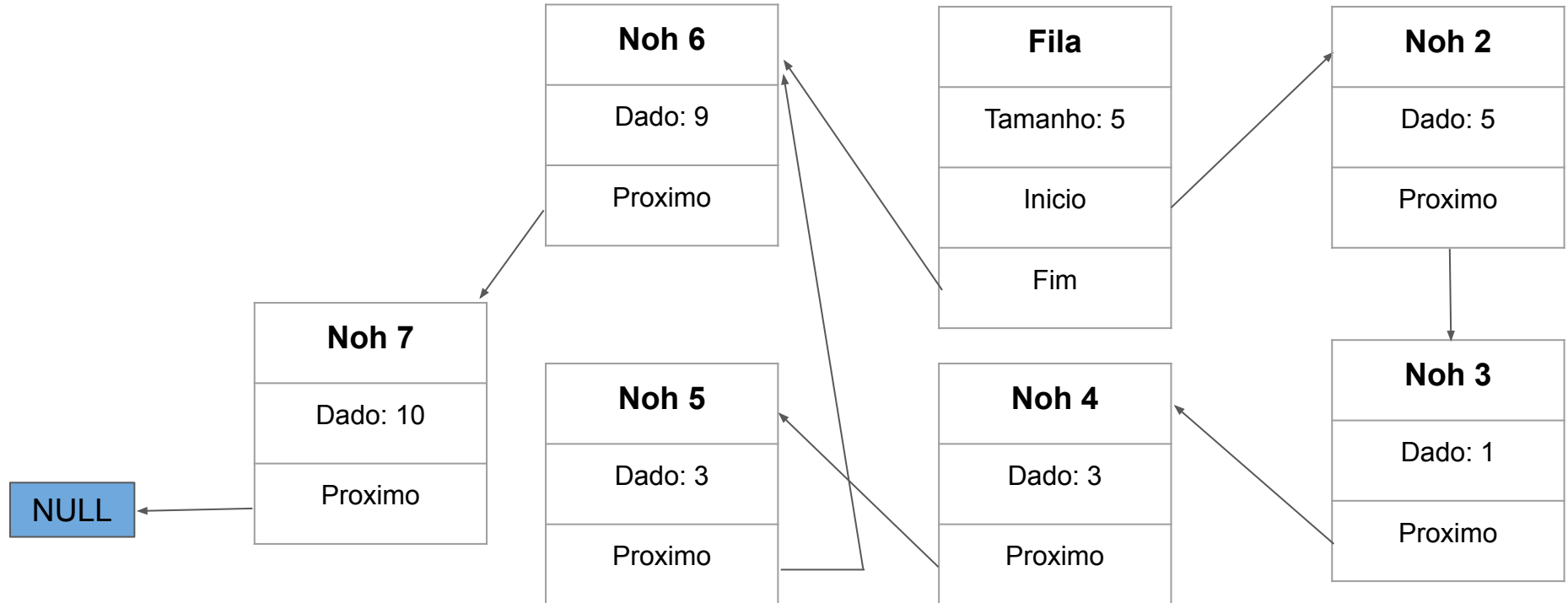
Questão 8

- 5. Enfileirar elementos 3, 9, 10



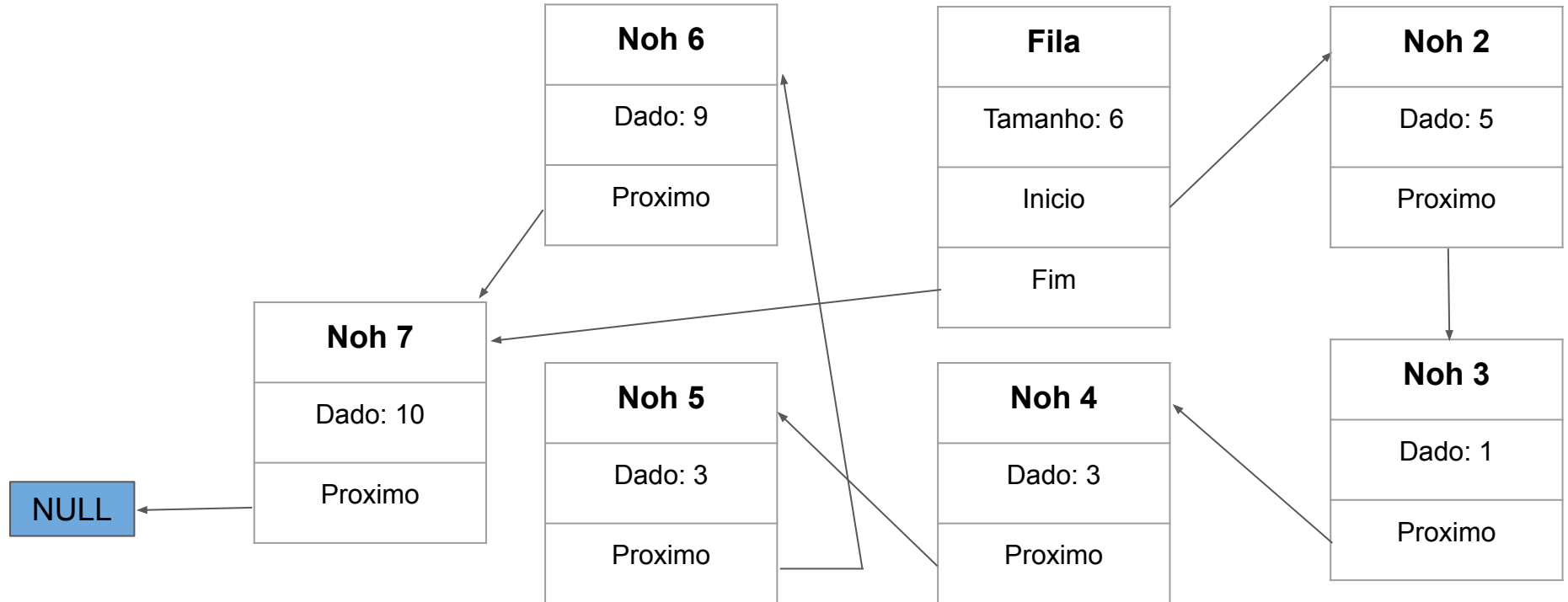
Questão 8

- 5. Enfileirar elementos 3, 9, 10



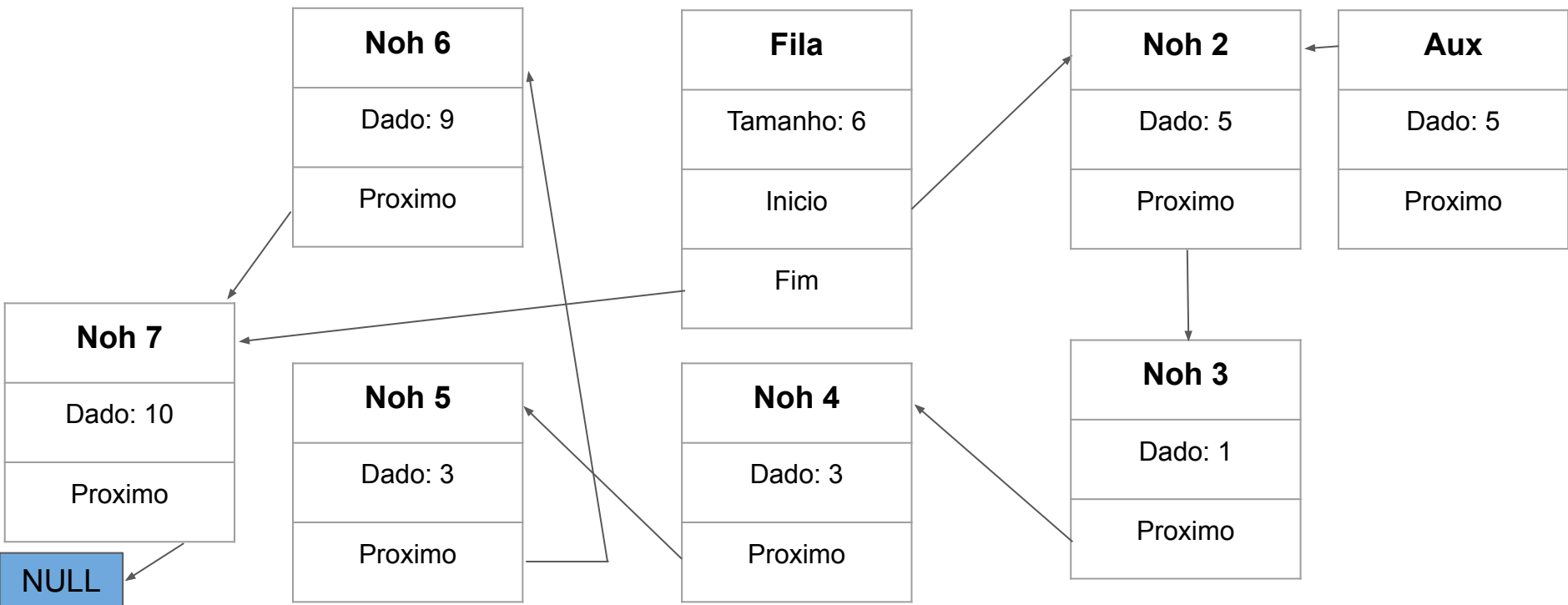
Questão 8

- 5. Enfileirar elementos 3, 9, 10



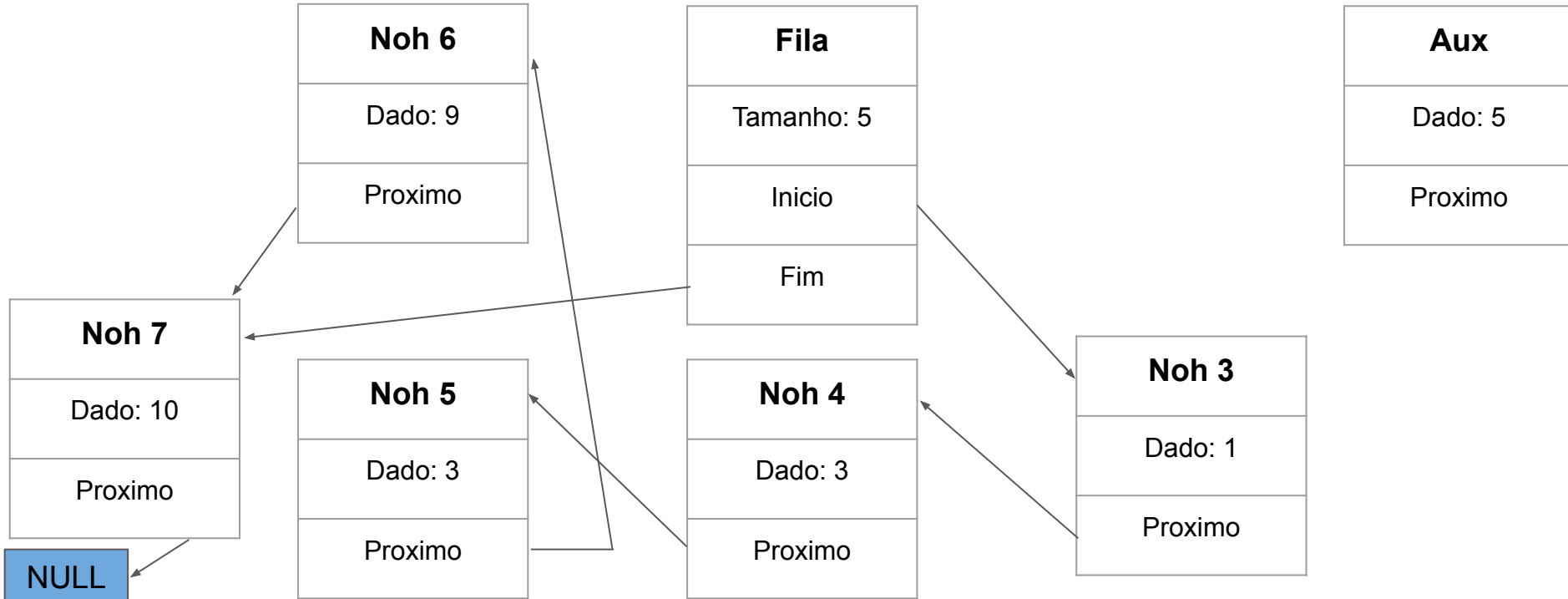
Questão 8

- 6. Desenfileirar



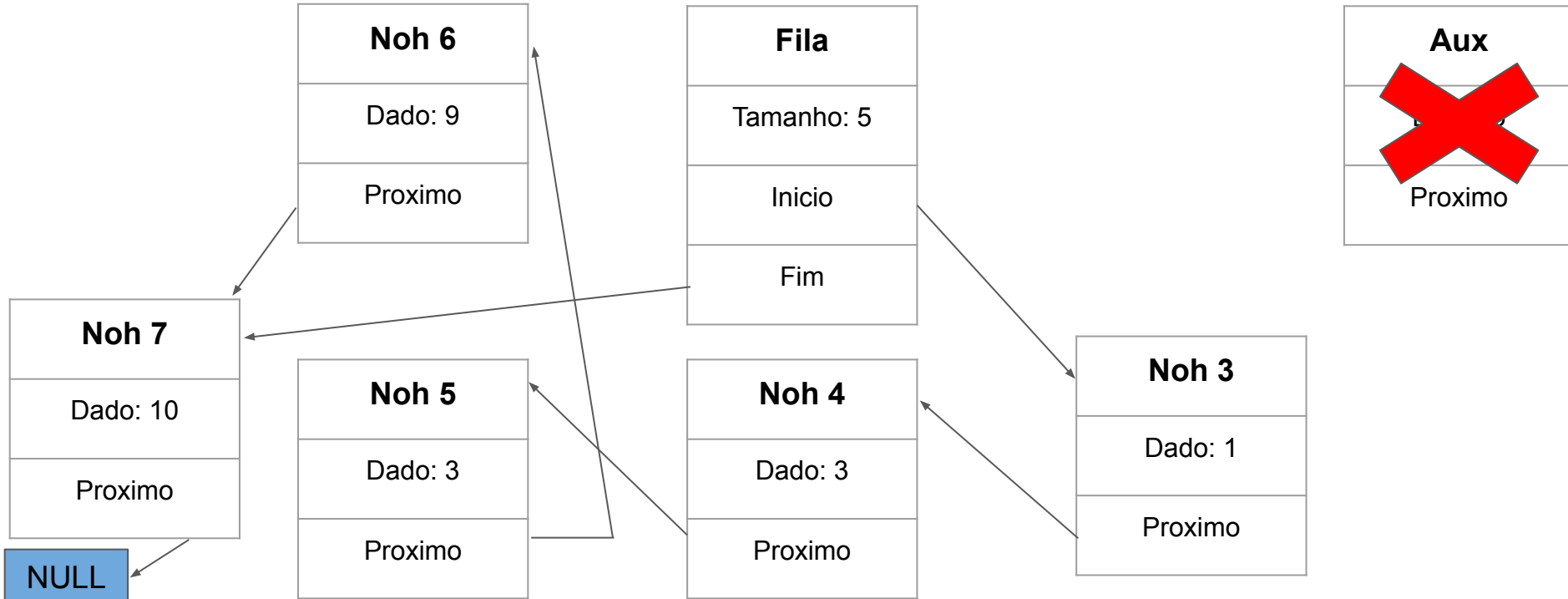
Questão 8

- 6. Desenfileirar



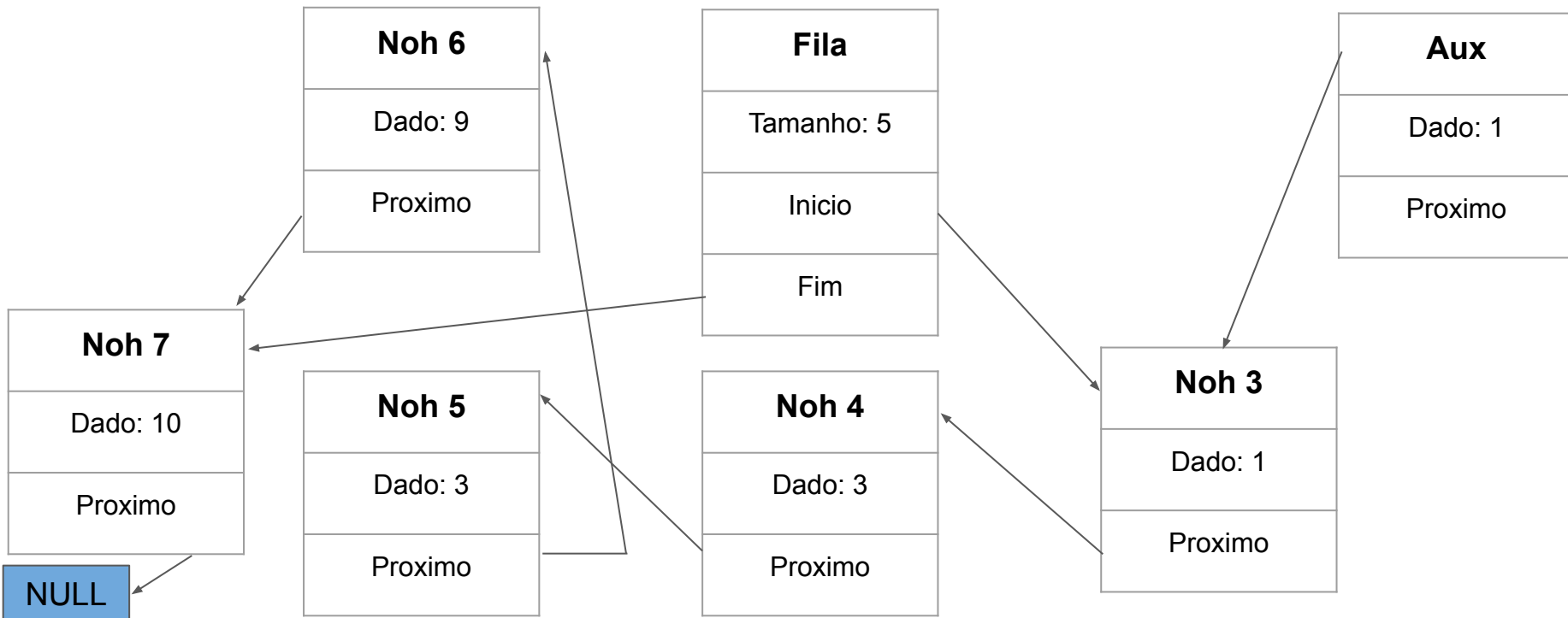
Questão 8

- 6. Desenfileirar



Questão 8

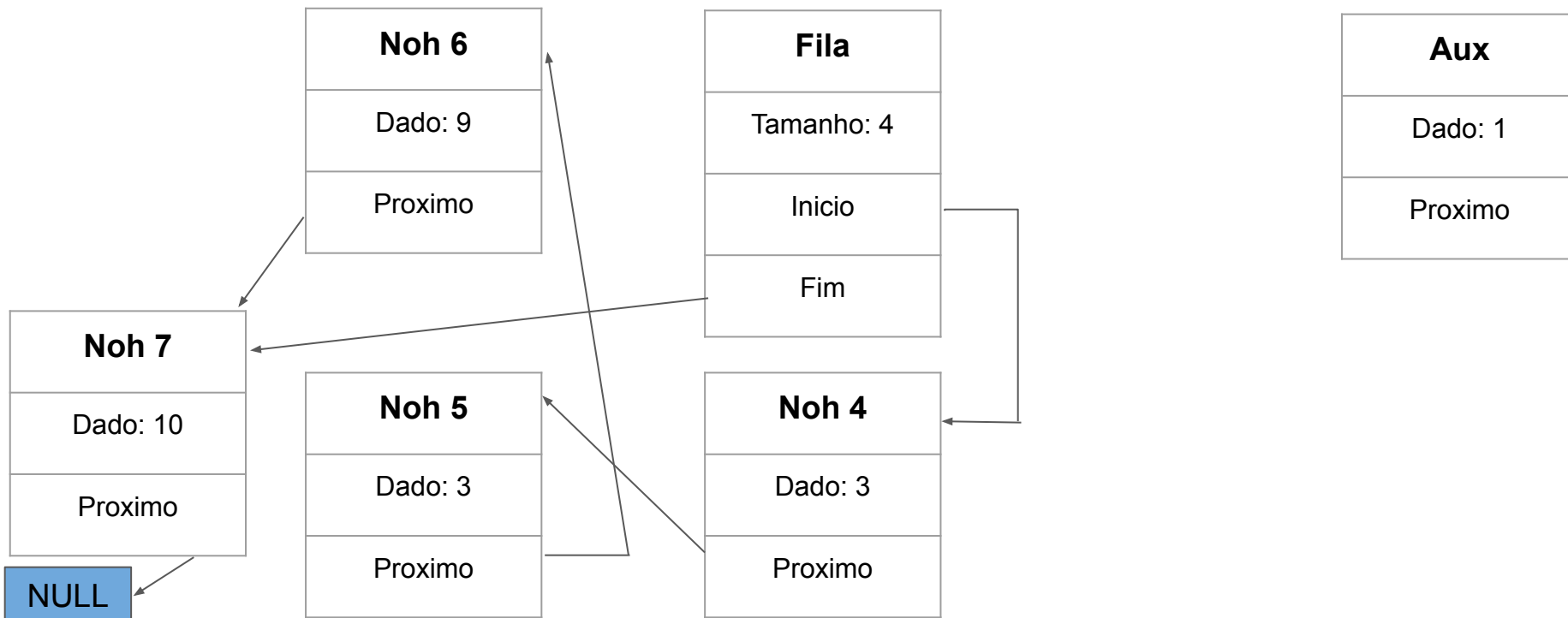
- 7. Desenfileirar



Inicio recebe aux.prox (Noh 4)
Tamanho--

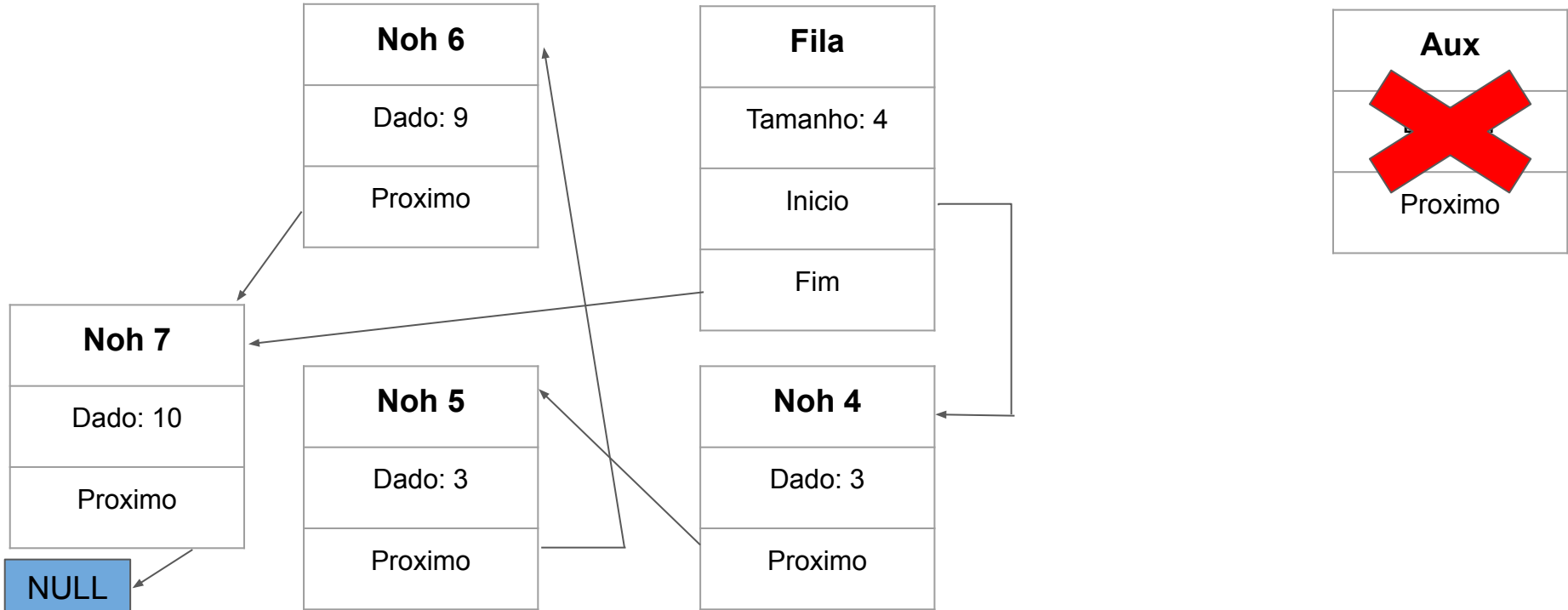
Questão 8

- 7. Desenfileirar



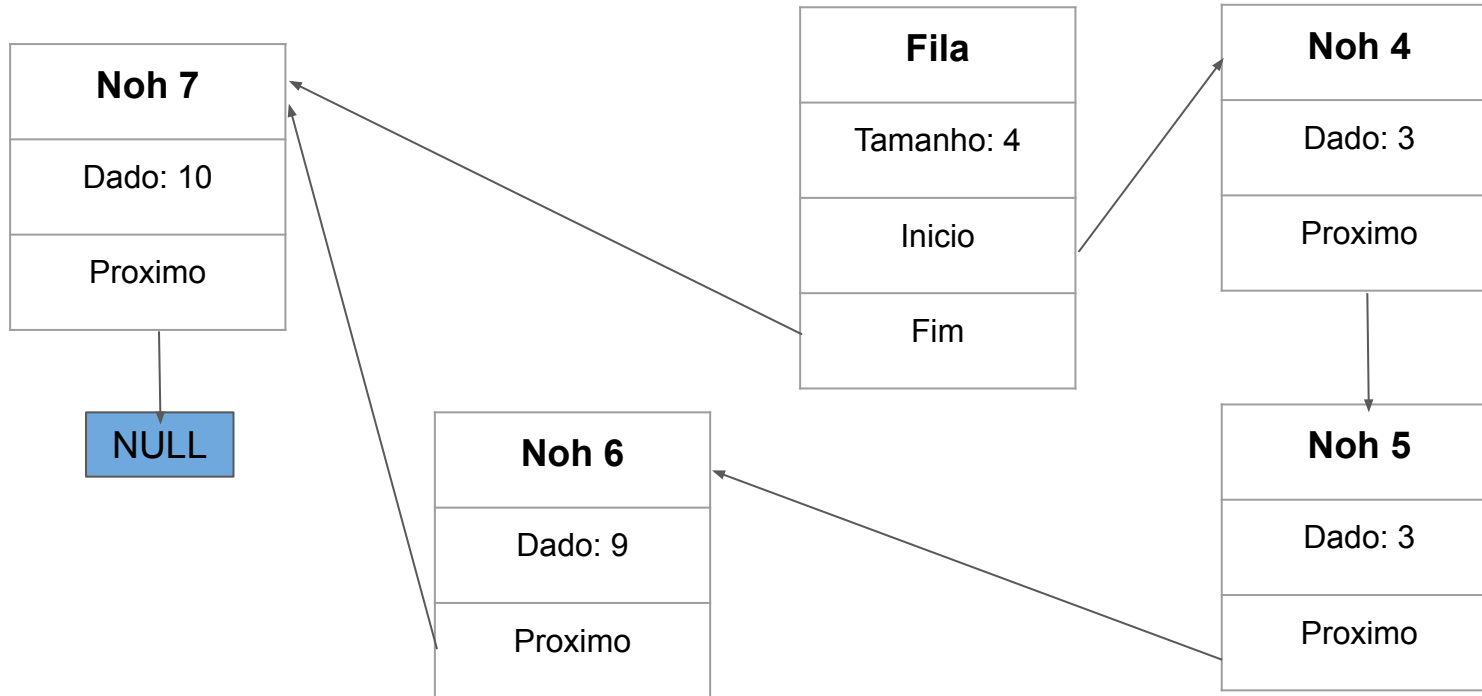
Questão 8

- 7. Desenfileirar



Questão 8

- Resultado Final



Questão 10



Questão 10

Filas Originais

obs: Em todas as etapas é comparado o início das filas

Inicio	Inicio	Inicio	Inicio
1	4		
2	6		
3	1		
4	10		
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira B e
Enfileira Aux

Inicio	Inicio	Inicio	Inicio
1	6	4	
2	1		
3	10		
4			
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira B e
Enfileira Aux

Inicio	Inicio	Inicio	Inicio
1	1	4	
2	10	6	
3			
4			
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Encontrou igual -
Desenfileira A e B
e Enfileira
Resultante

Inicio	Inicio	Inicio	Inicio
2	10	4	1
3		6	
4			
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira Aux e
Enfileira B para
verificar todos os
números

Inicio	Inicio	Inicio	Inicio
2	10	6	1
3	4		
4			
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira A

Inicio	Inicio	Inicio	Inicio
3	10	6	1
4	4		
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira B e
Enfileira Aux para
verificar todos os
números

Inicio	Inicio	Inicio	Inicio
3	4	6	1
4		10	
5			
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira A

Inicio	Inicio	Inicio	Inicio
4	4	6	1
5		10	
6			
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Encontrou igual -
Desenfileira A e B
e Enfileira
Resultante

Inicio	Inicio	Inicio	Inicio
5		6	1
6		10	4
7			
8			
9			
10			
Fim	Fim	Fim	Fim
A	B	Aux	Resultante

Questão 10

Desenfileira Aux e enfileira B

A partir de agora, o início de cada fila será comparada diretamente

Inicio

5

6

7

8

9

10

Fim

A

Inicio

6

Fim

B

Inicio

10

Fim

Aux

Inicio

1

4

Fim

Resultante

Questão 10

Desenfileira A

Inicio
6
7
8
9
10

Fim
A

Inicio
6

Fim
B

Inicio
10

Fim
Aux

Inicio
1
4

Fim
Resultante

Questão 10

Encontrou igual -
Desenfileira A e B
e Enfileira
Resultante

Inicio

7

8

9

10

Fim

A

Inicio

Fim

B

Inicio

10

Fim

Aux

Inicio

1

4

6

Fim

Resultante

Questão 10

Desenfileira A

Inicio

8

9

10

Inicio

Inicio

10

Inicio

1

4

6

Fim

Fim

Fim

Fim

A

B

Aux

Resultante

Questão 10

Desenfileira A

Inicio

9

10

Inicio

Inicio

10

Inicio

1

4

6

Fim

A

Fim

B

Fim

Aux

Fim

Resultante

Questão 10

Desenfileira A

Inicio

10

Inicio

Inicio

10

Inicio

1

4

6

Fim

A

Fim

B

Fim

Aux

Fim

Resultante

Questão 10

Encontrou igual -
Desenfileira A e
Aux e Enfileira
Resultante

Finalizado

Inicio

Inicio

Inicio

Inicio

1

4

6

10

Fim

Fim

Fim

Fim

A

B

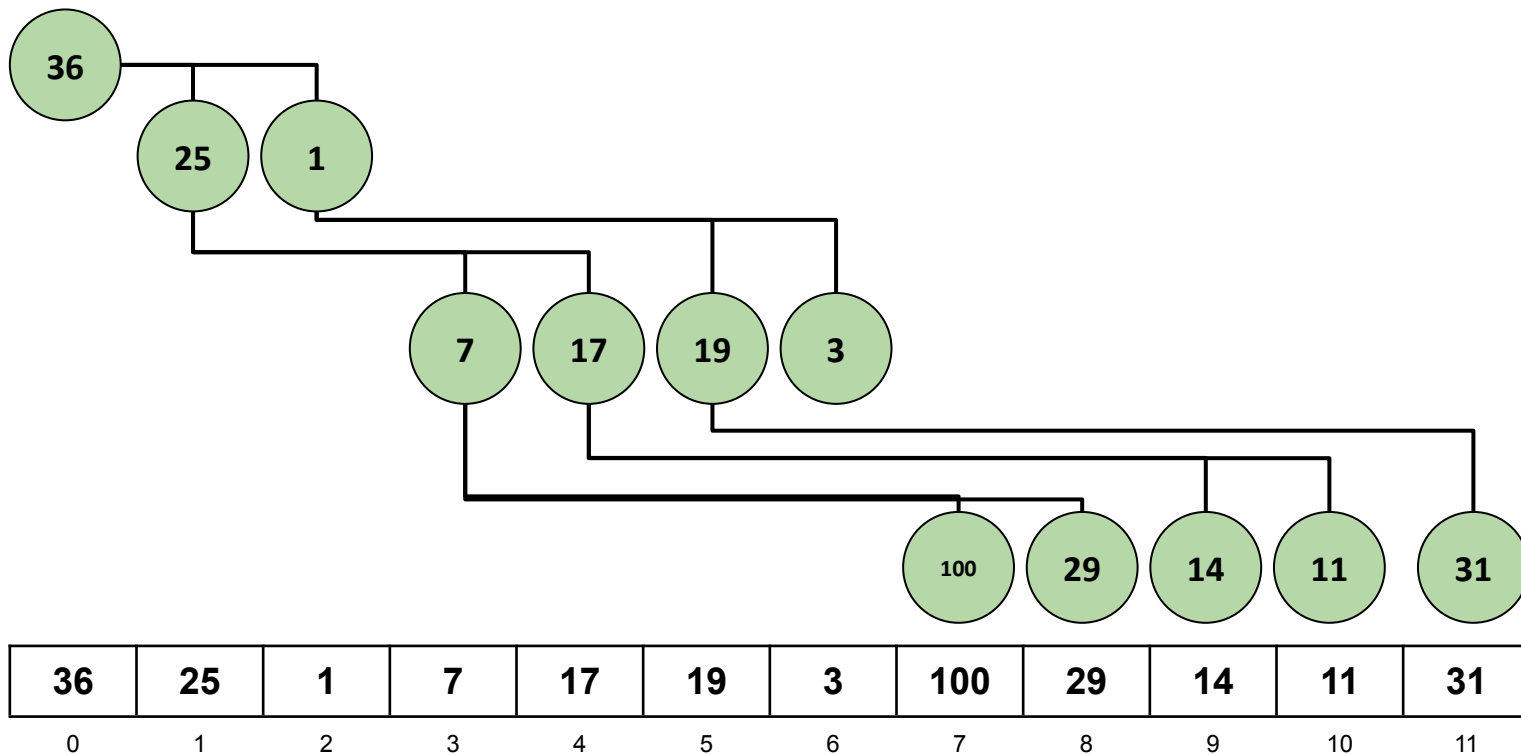
Aux

Resultante

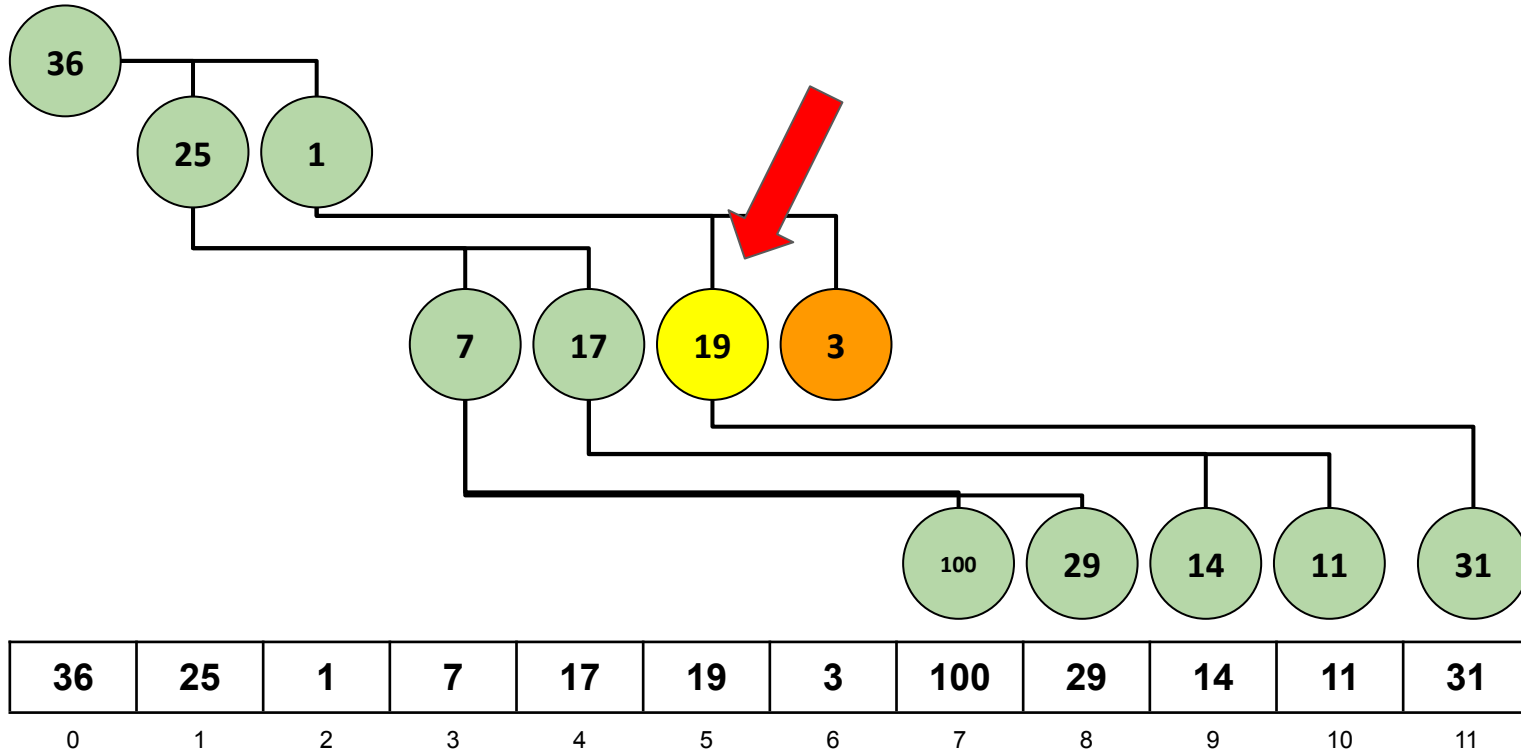
Questão 13



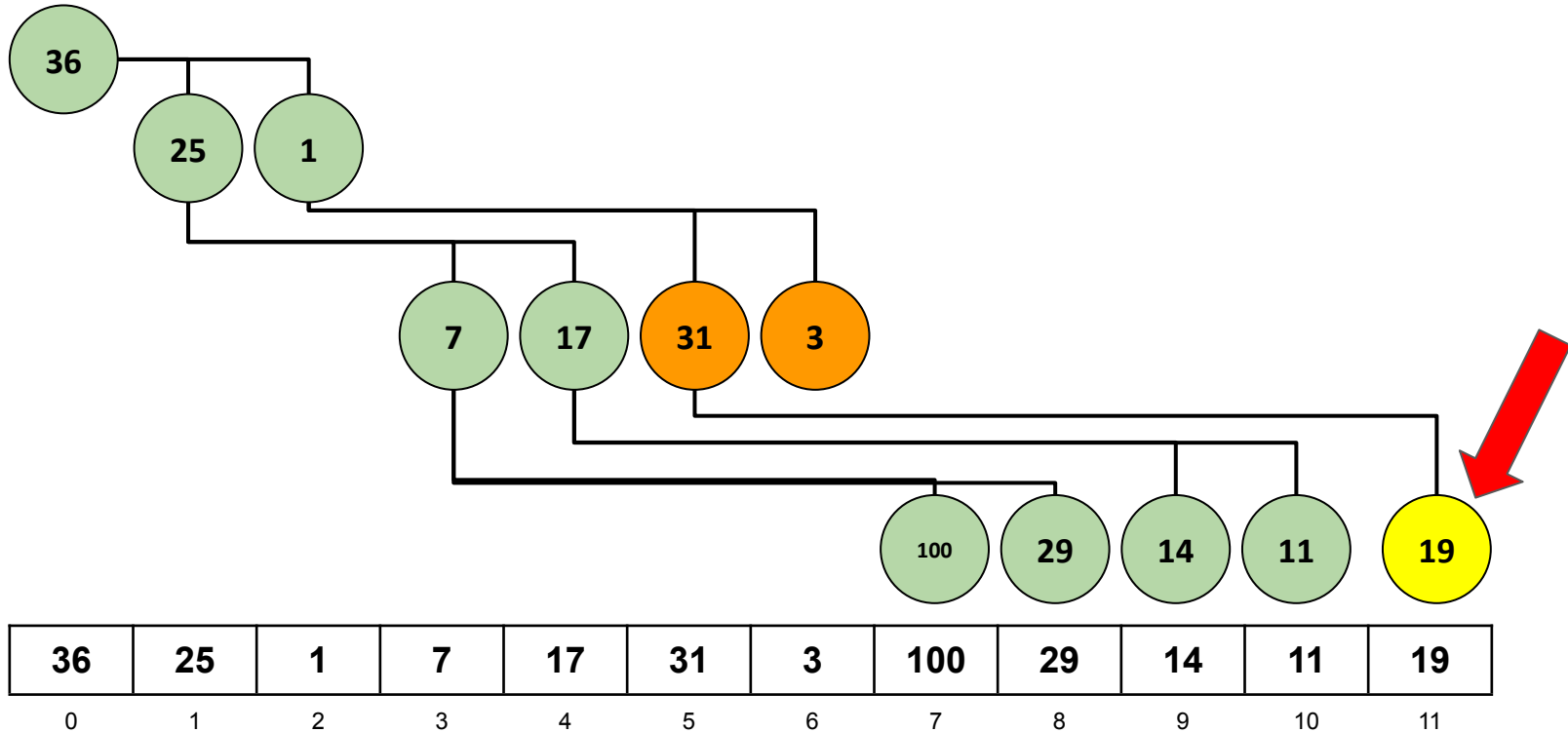
Questão 13



Questão 13

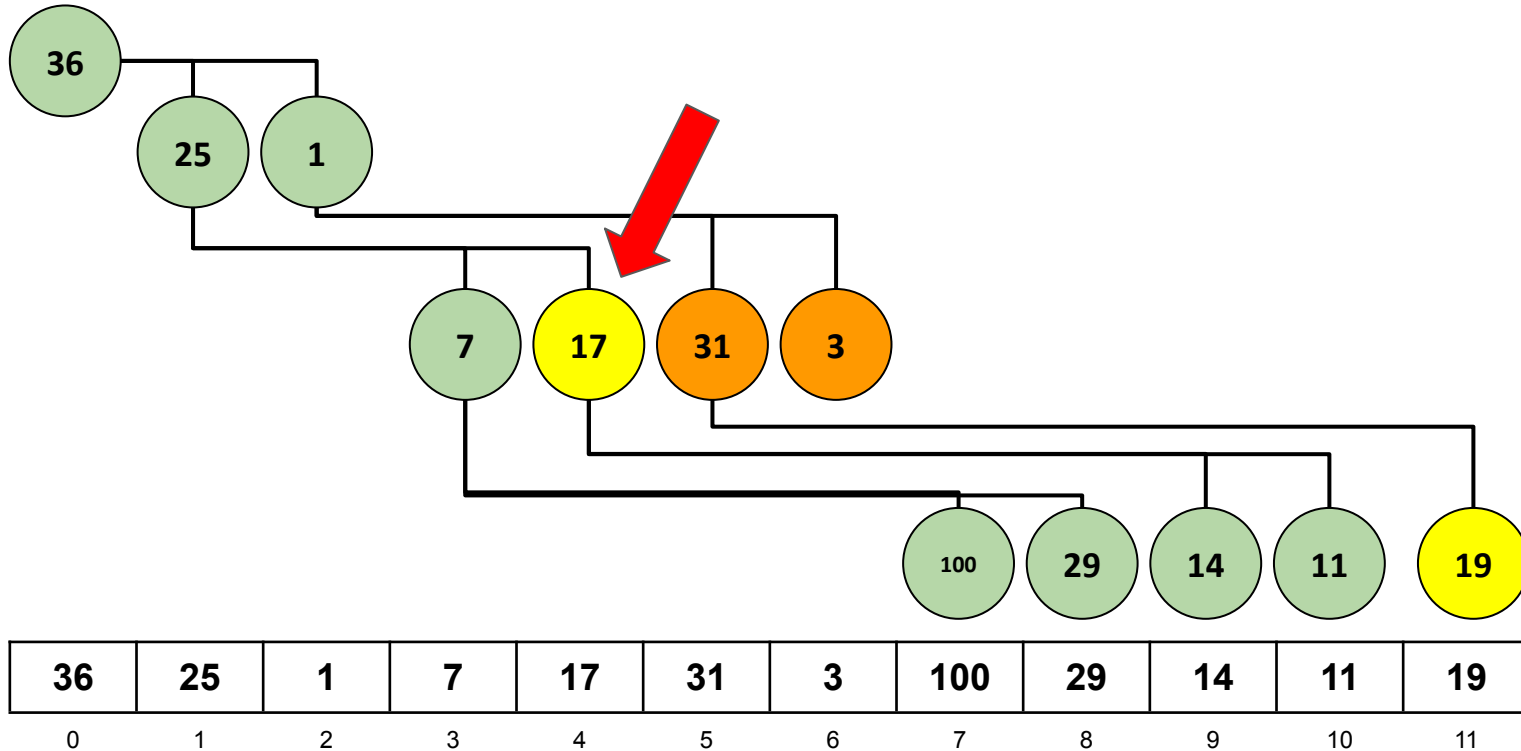


Questão 13

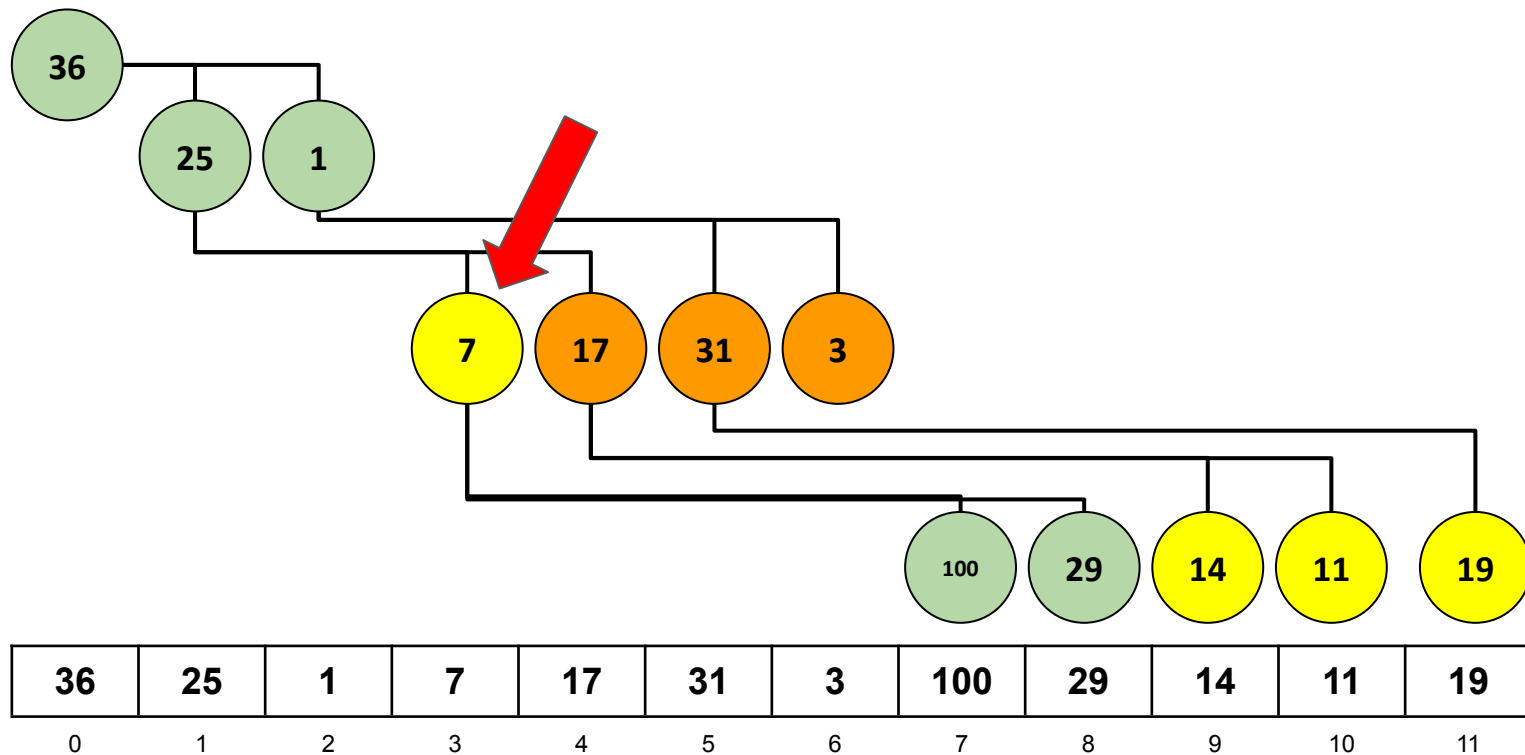


Passou para o próximo
A troca não é necessária

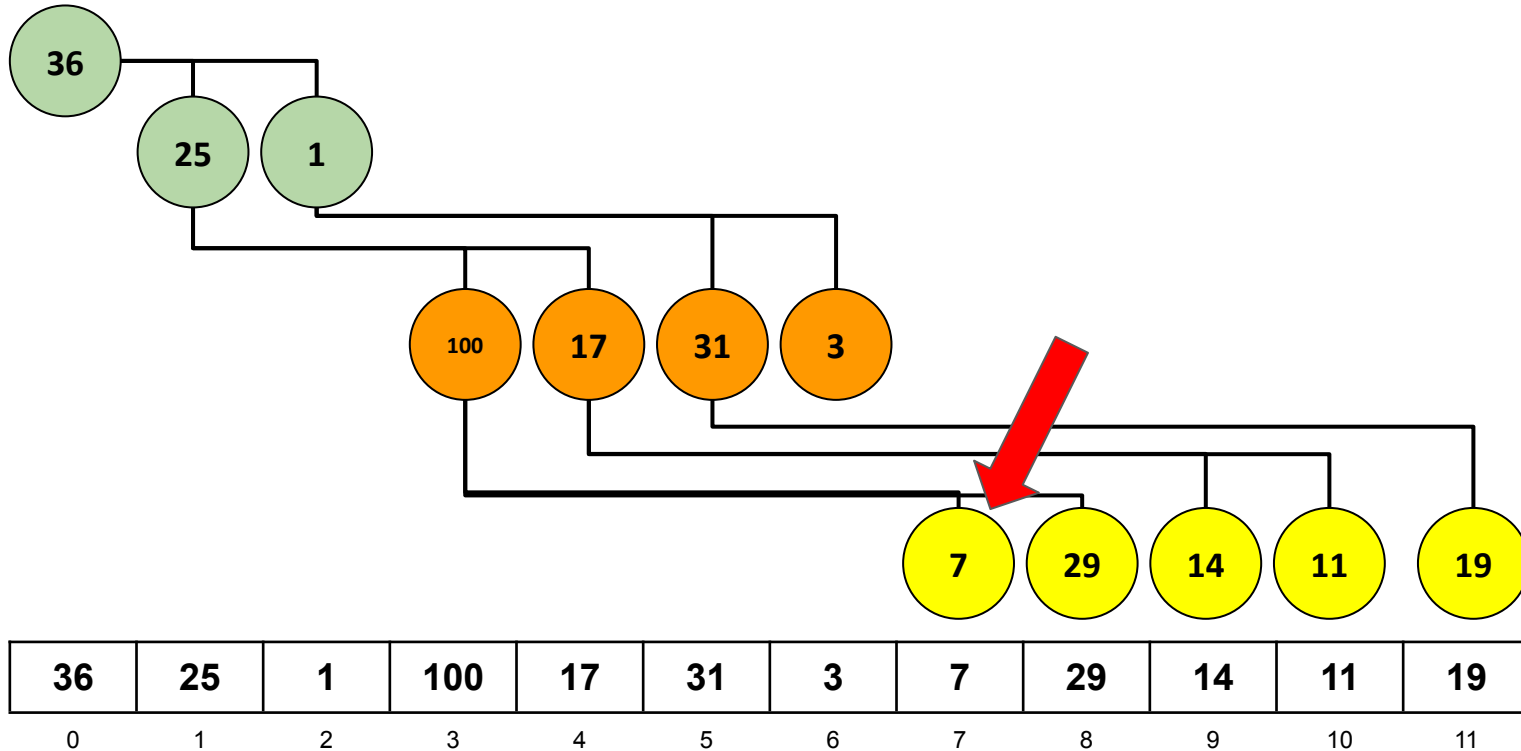
Questão 13



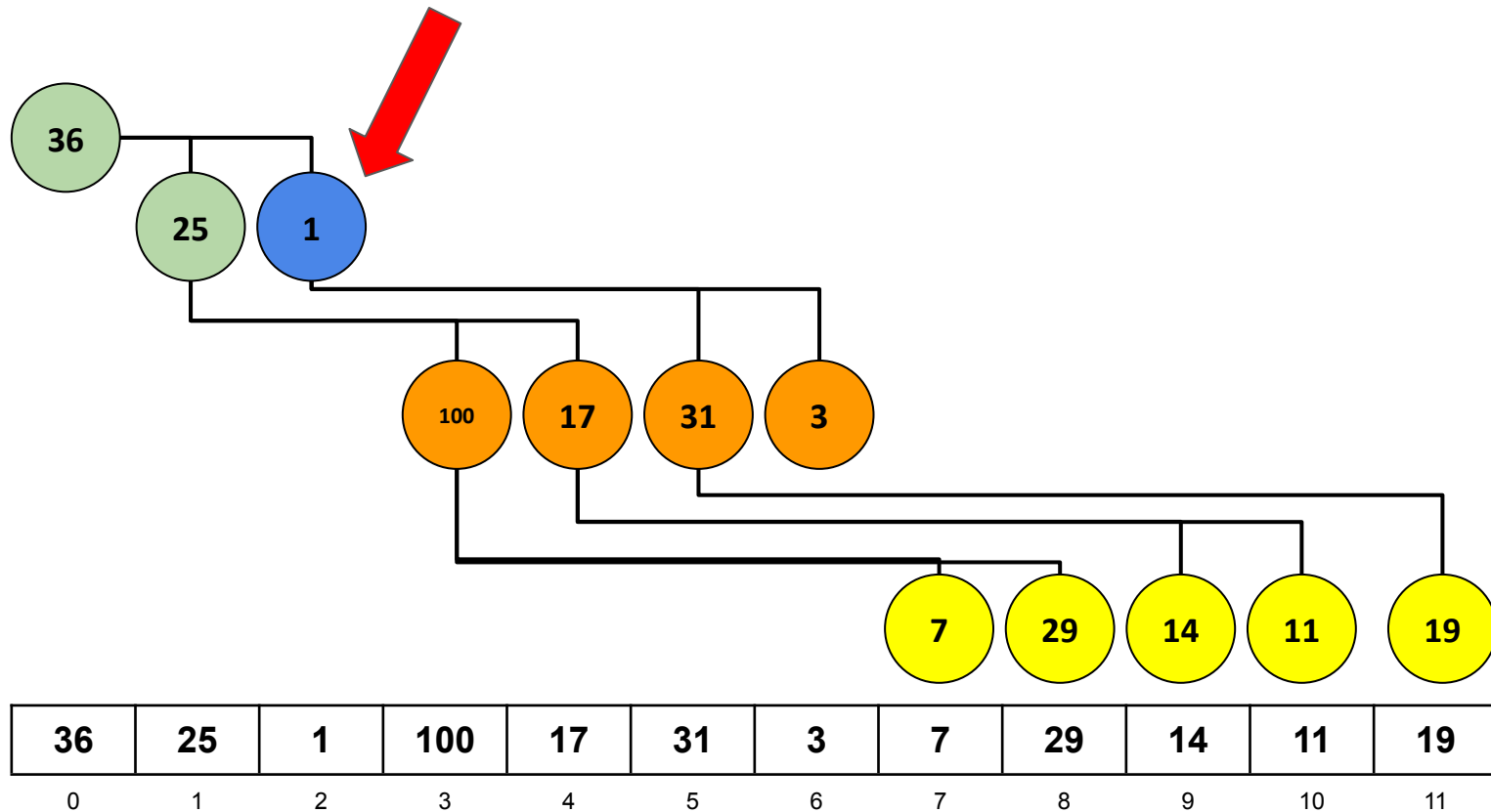
Questão 13



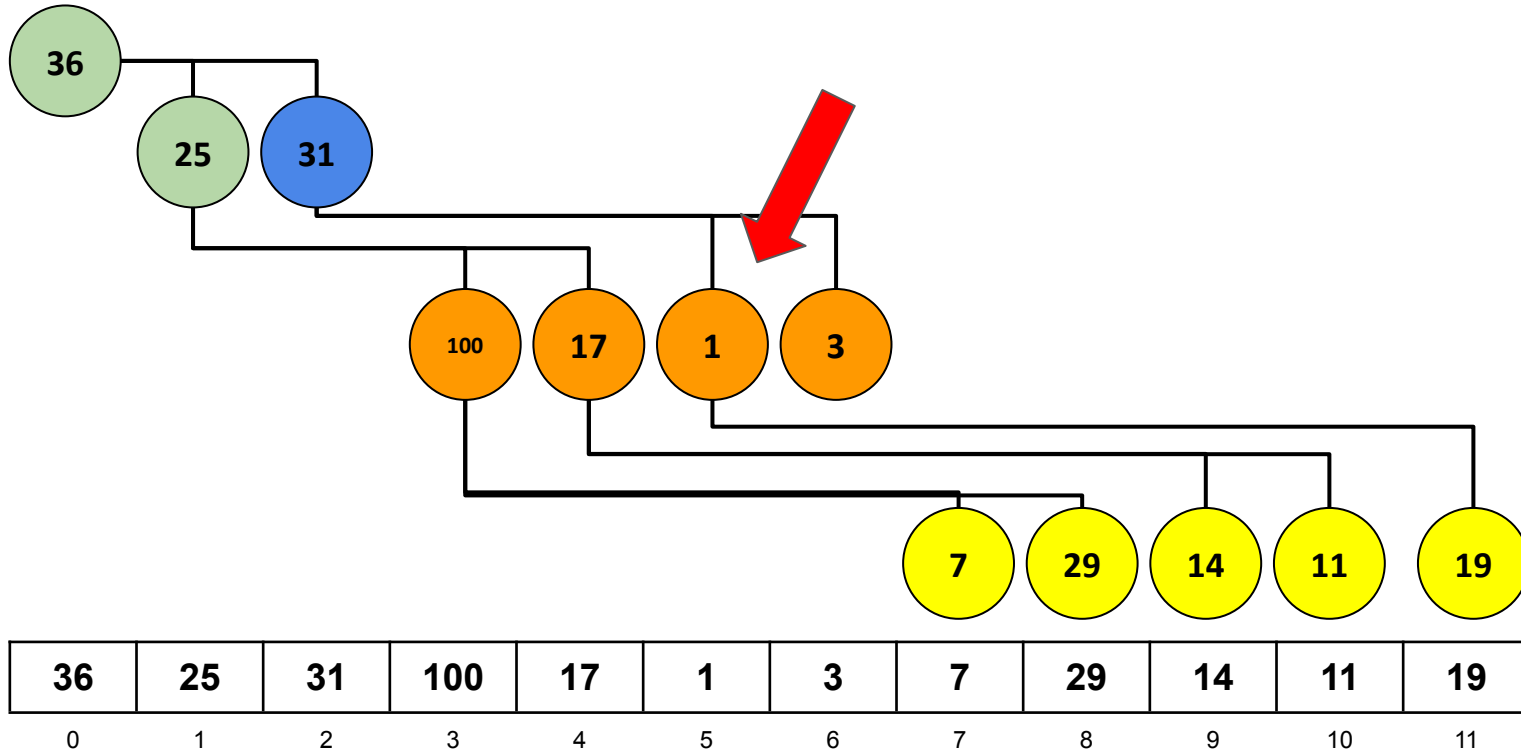
Questão 13



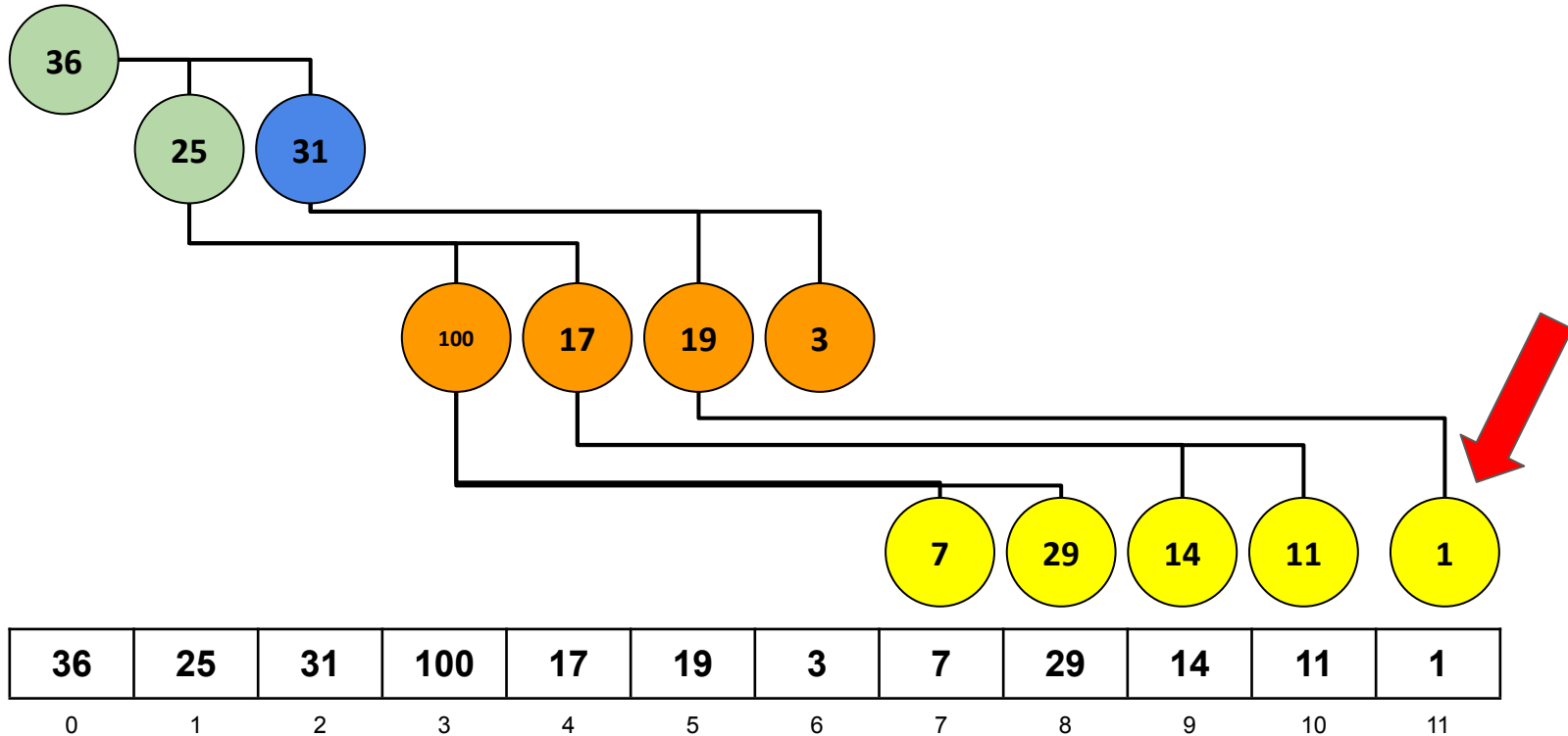
Questão 13



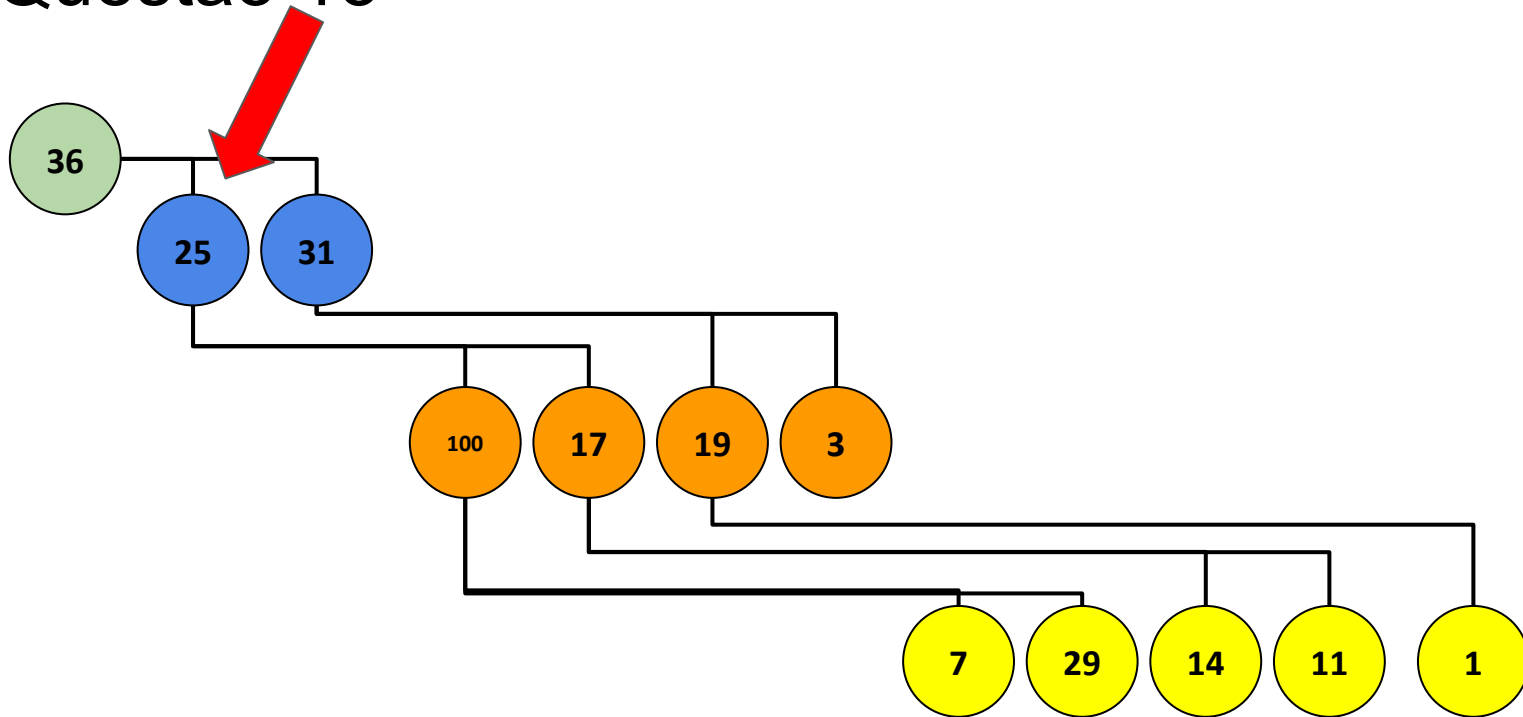
Questão 13



Questão 13

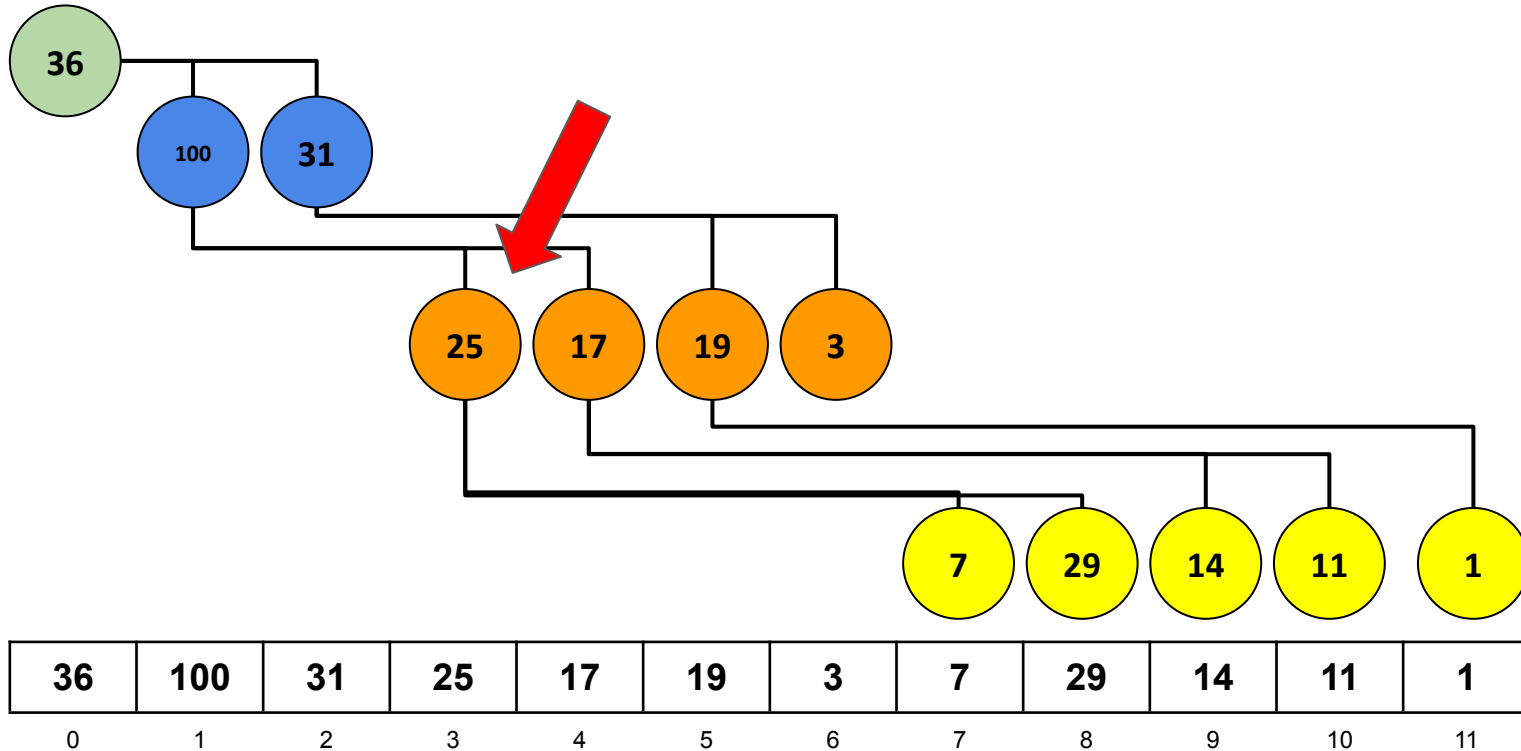


Questão 13

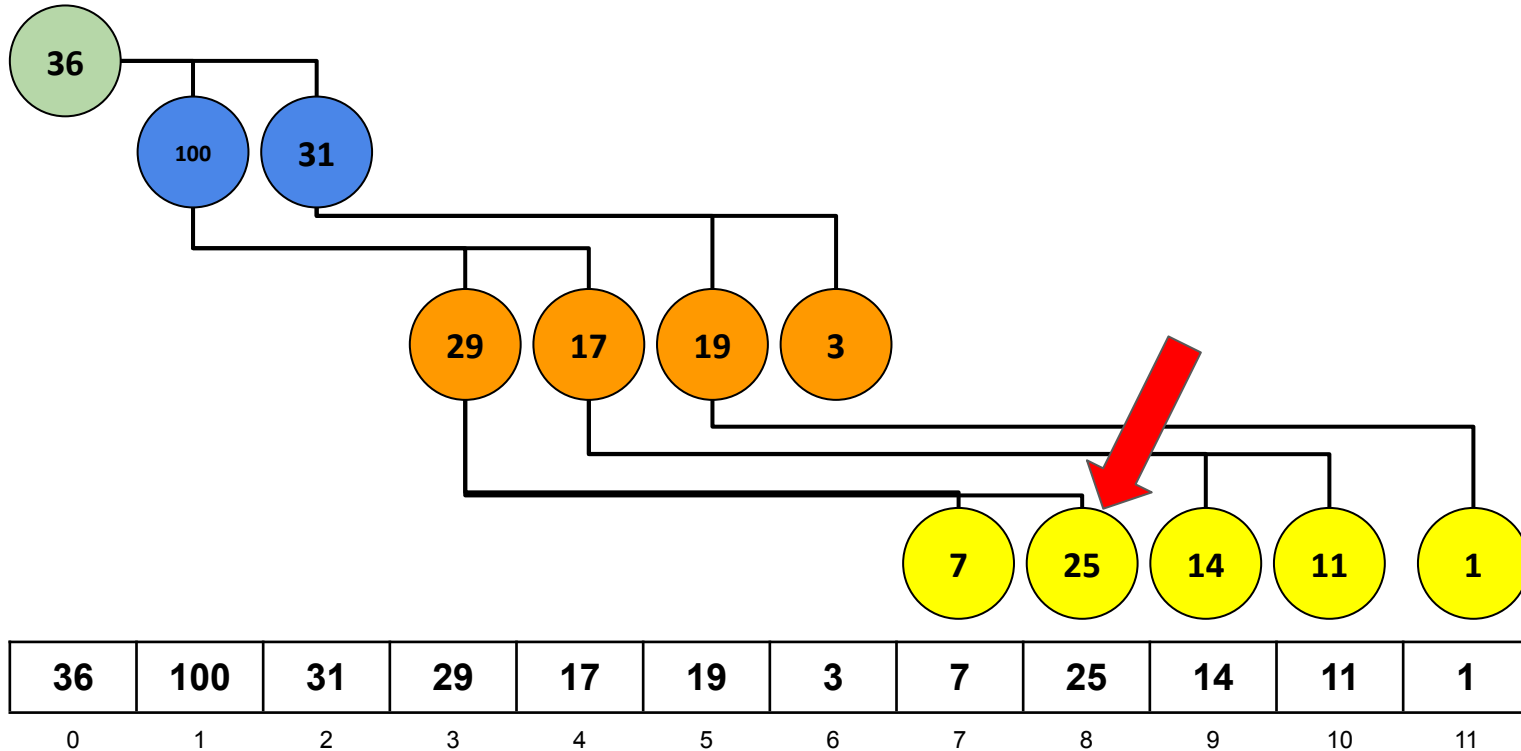


36	25	31	100	17	19	3	7	29	14	11	1
0	1	2	3	4	5	6	7	8	9	10	11

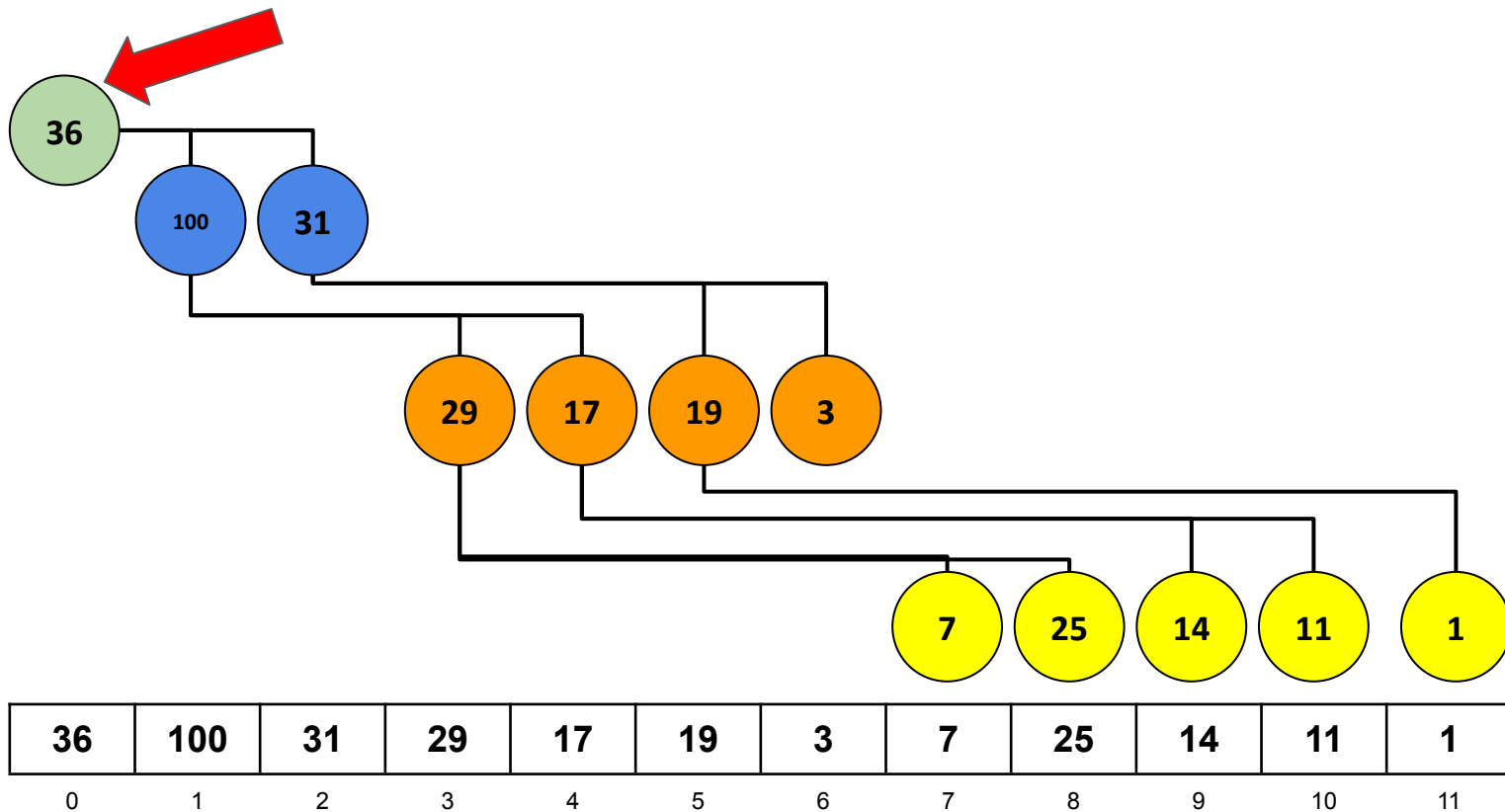
Questão 13



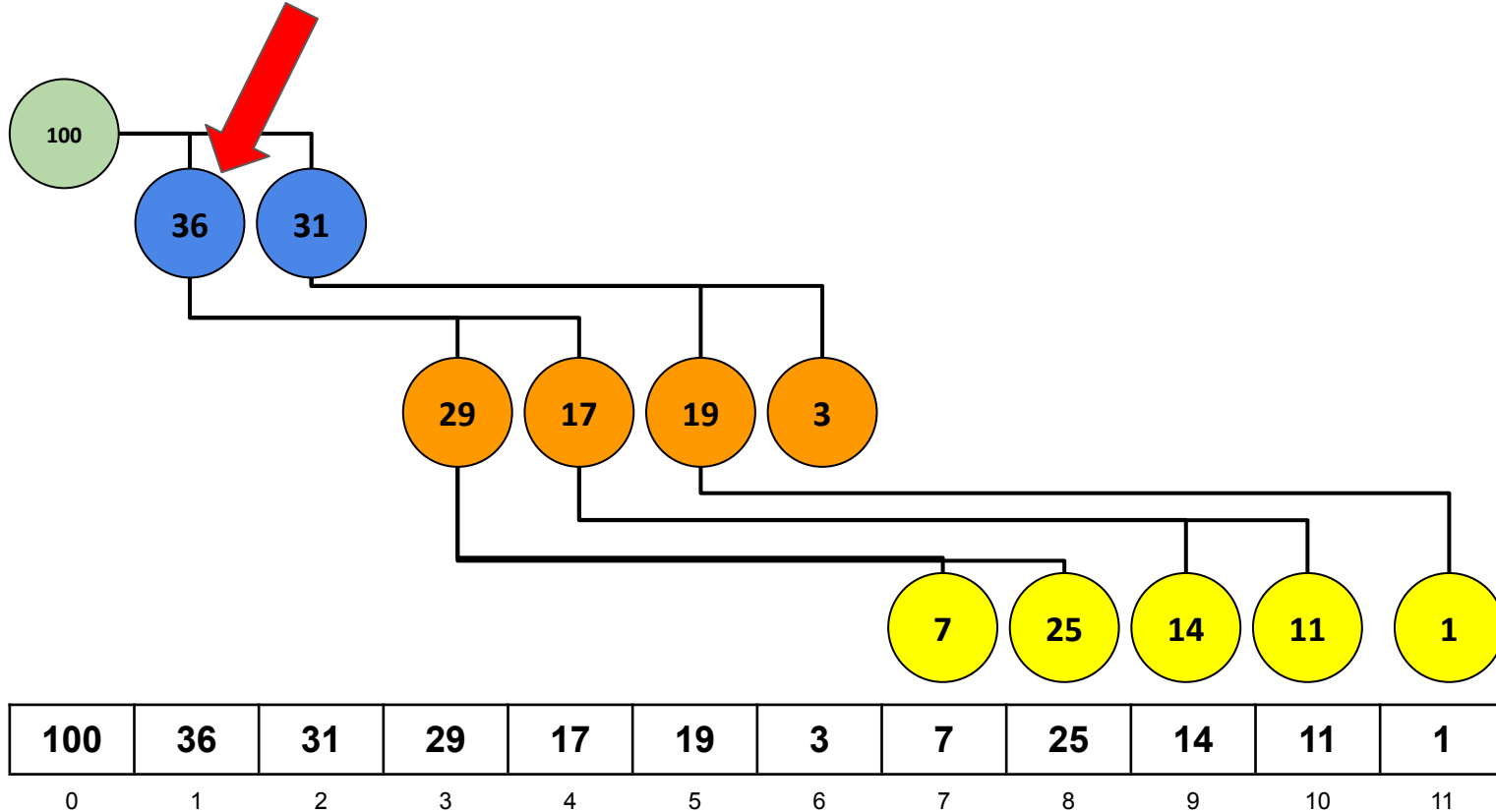
Questão 13



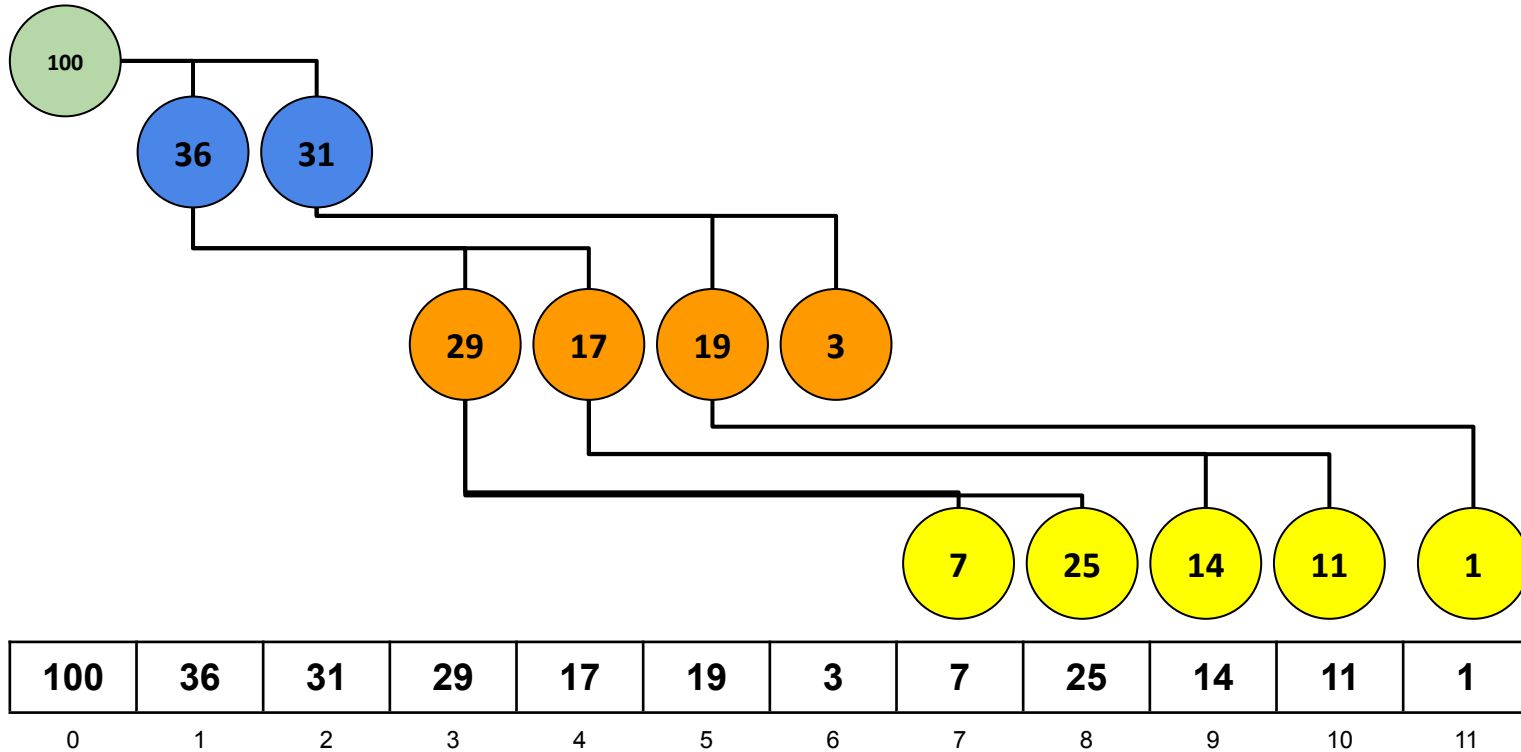
Questão 13



Questão 13



Questão 13



Questão 13

