

# Atividade REO 3

Vitor André de Oliveira Tenório

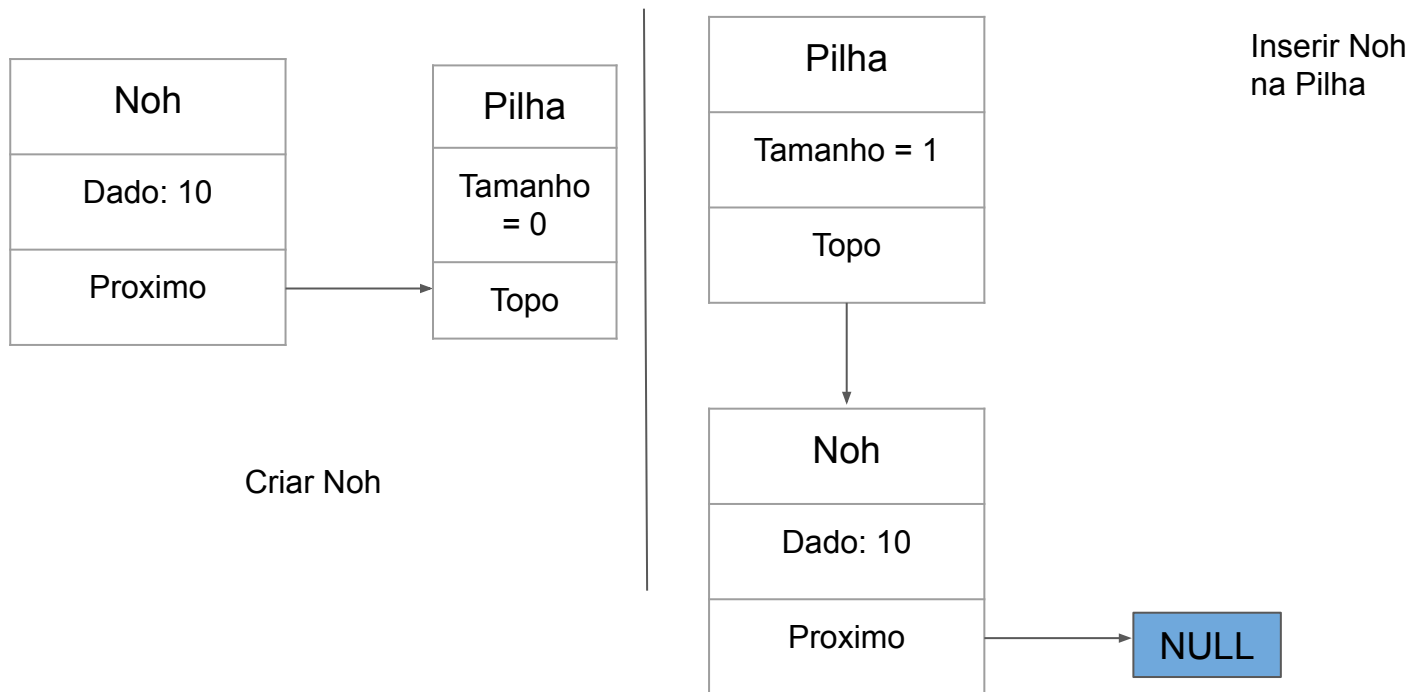
## Questão 2

- 0 -Criar Pilha



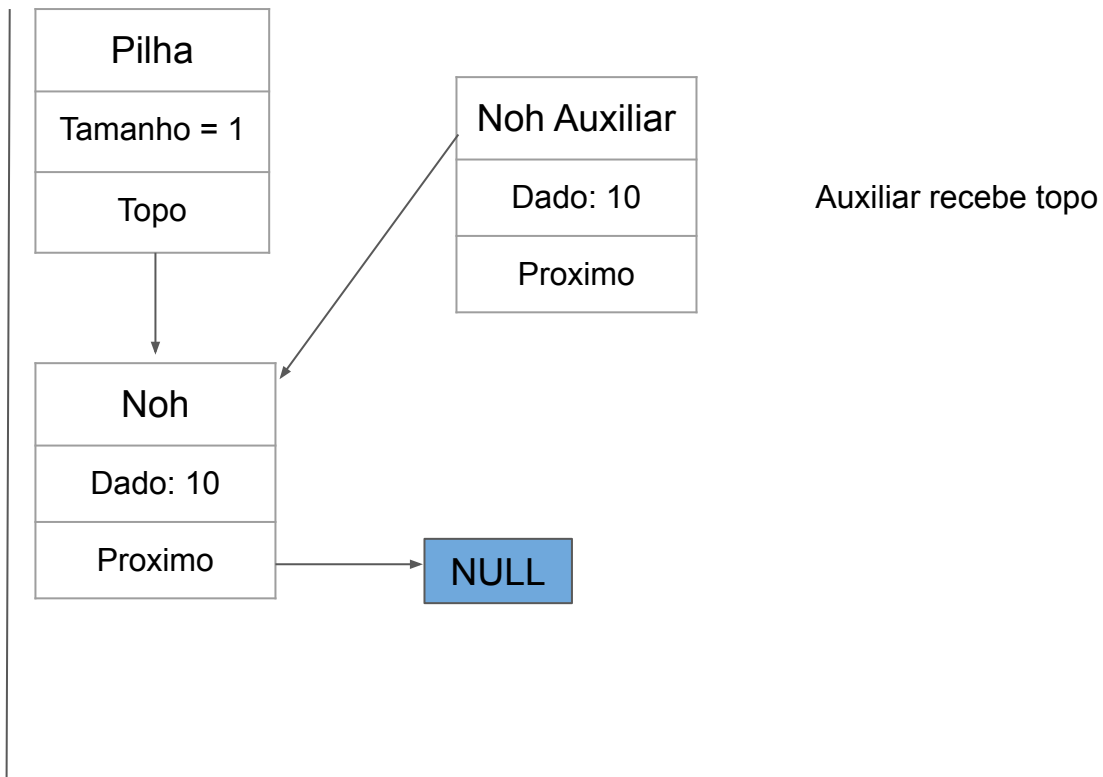
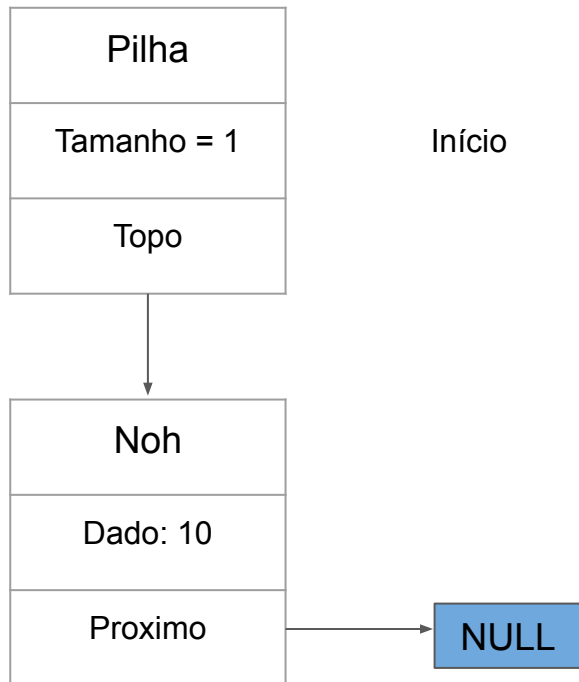
## Questão 2

- 1 - Empilhar elemento 10



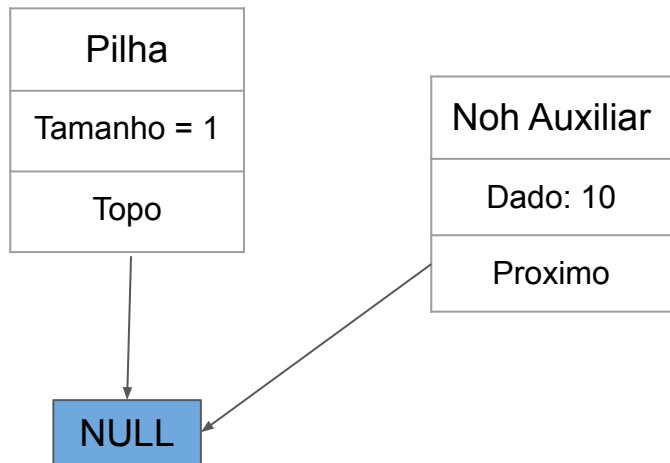
# Questão 2

- 2 - Desempilhar

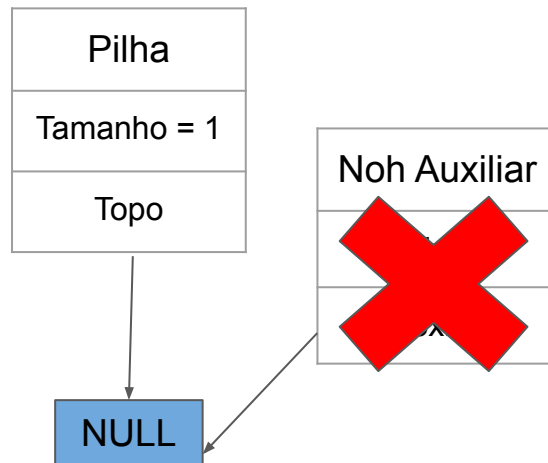


## Questão 2

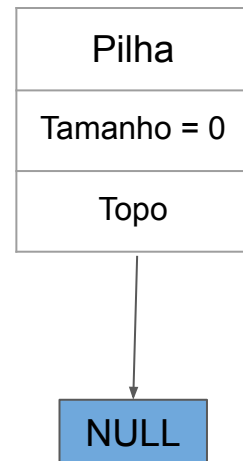
- 2 - Desempilhar



Topo recebe auxiliar->proximo  
Variável Dado = 10



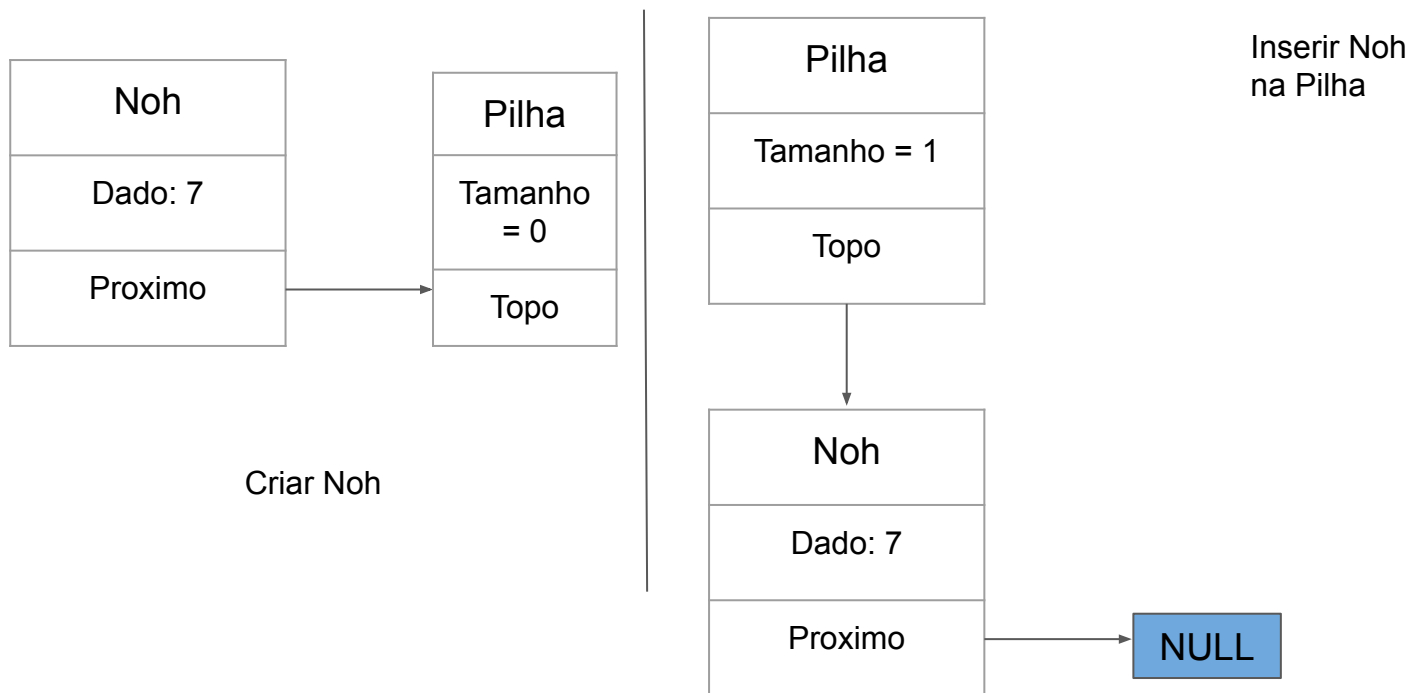
Apaga Auxiliar



Final

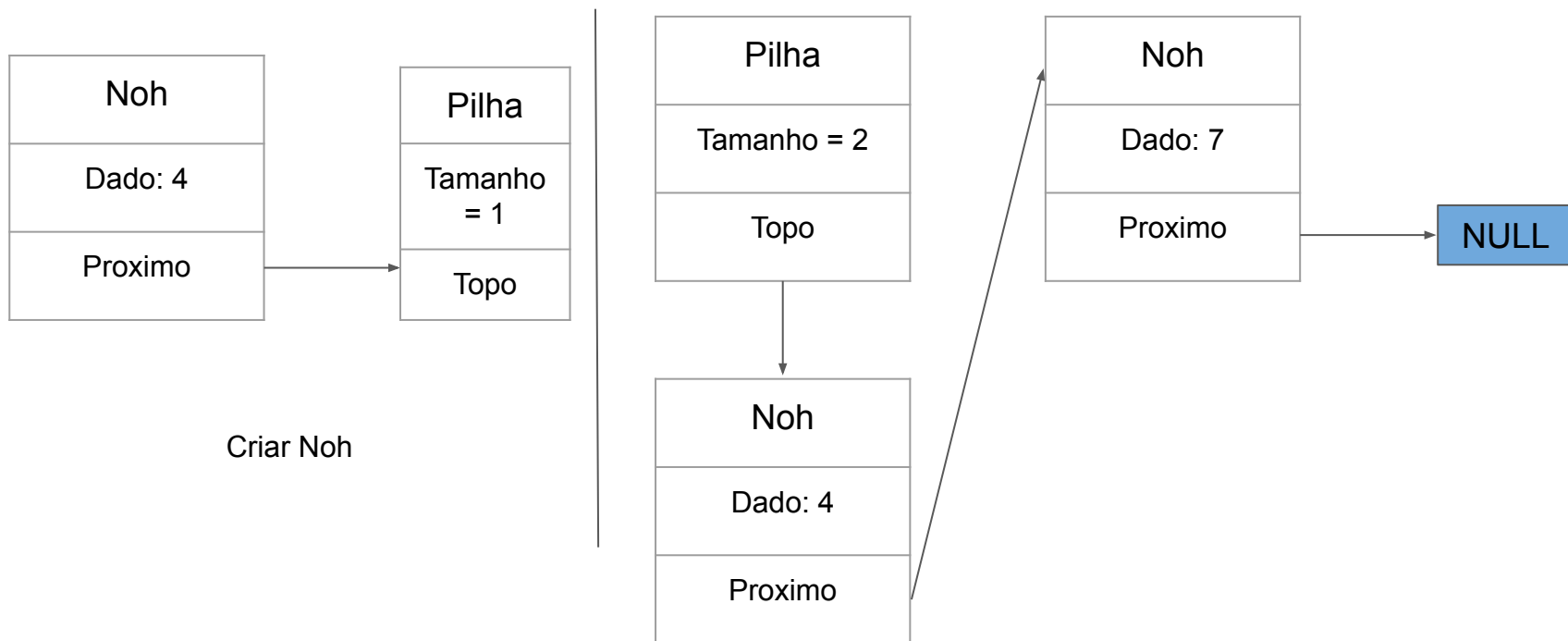
## Questão 2

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



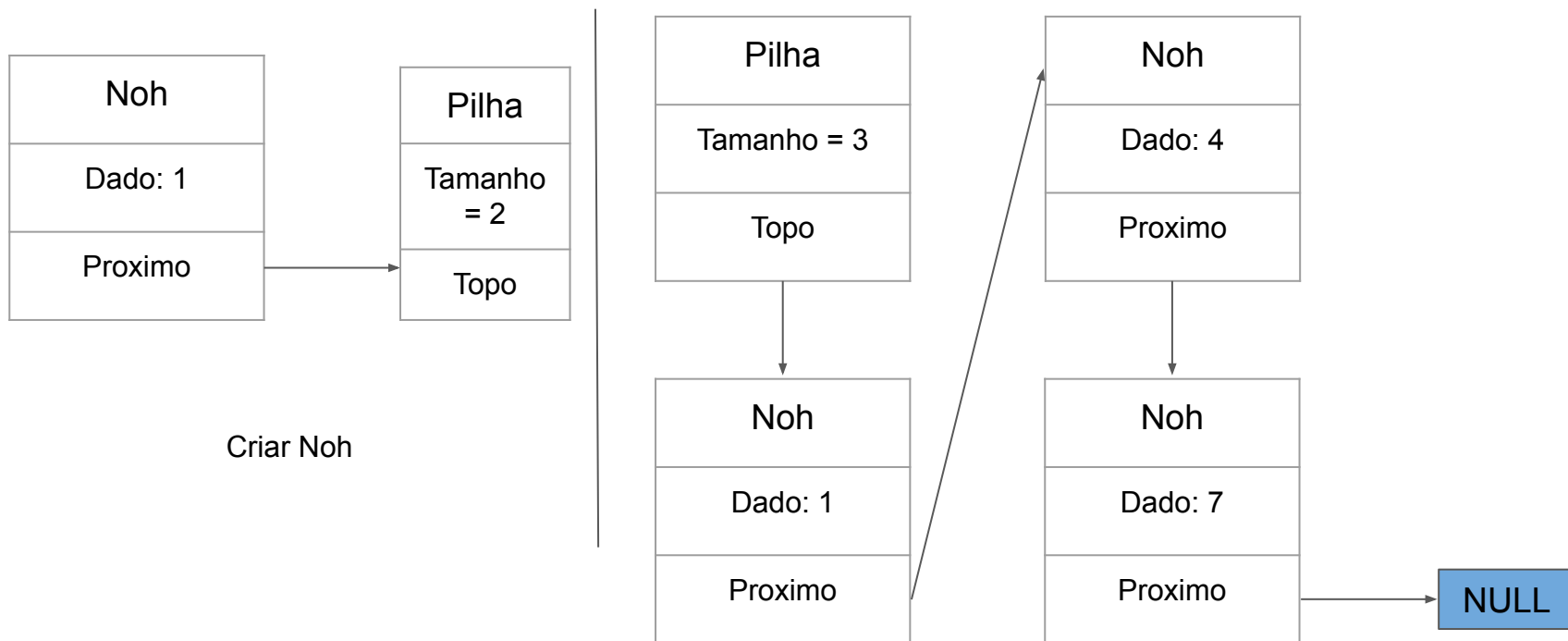
## Questão 2

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



## Questão 2

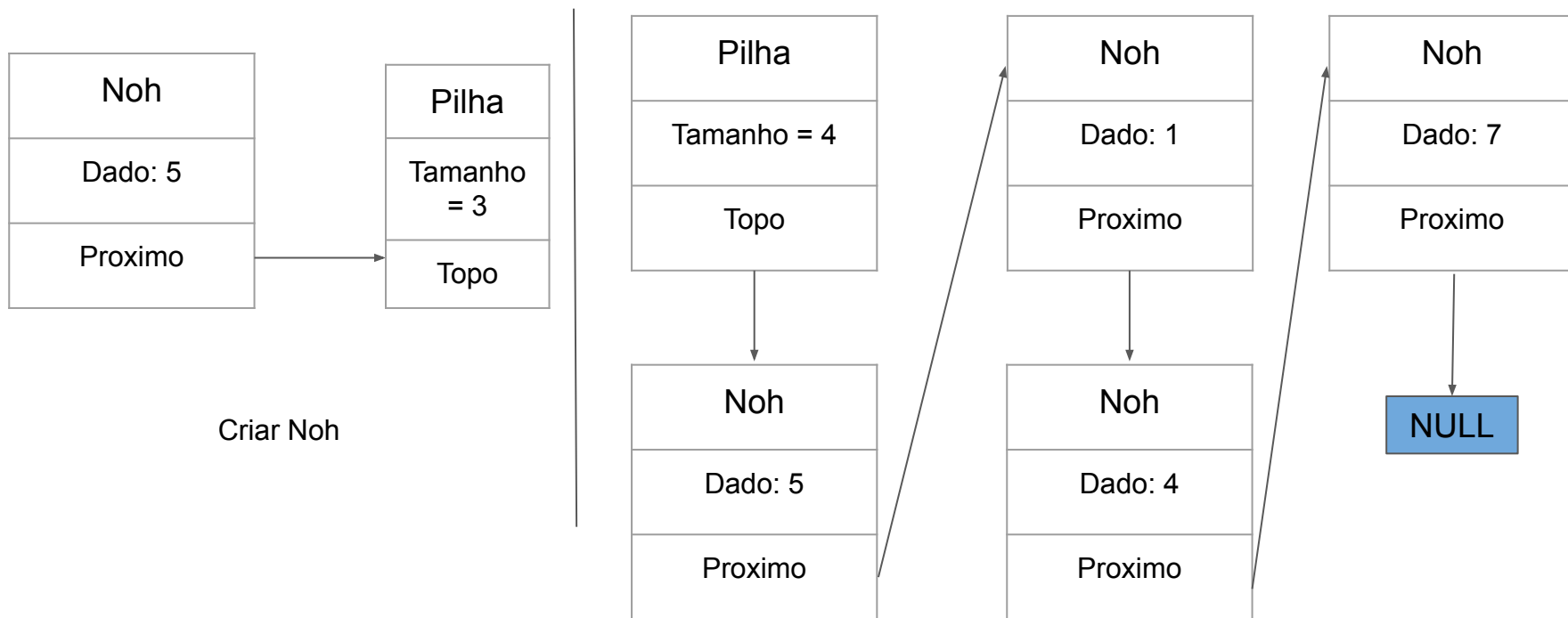
- 3. Empilhar elementos 7, 4, 1, 5





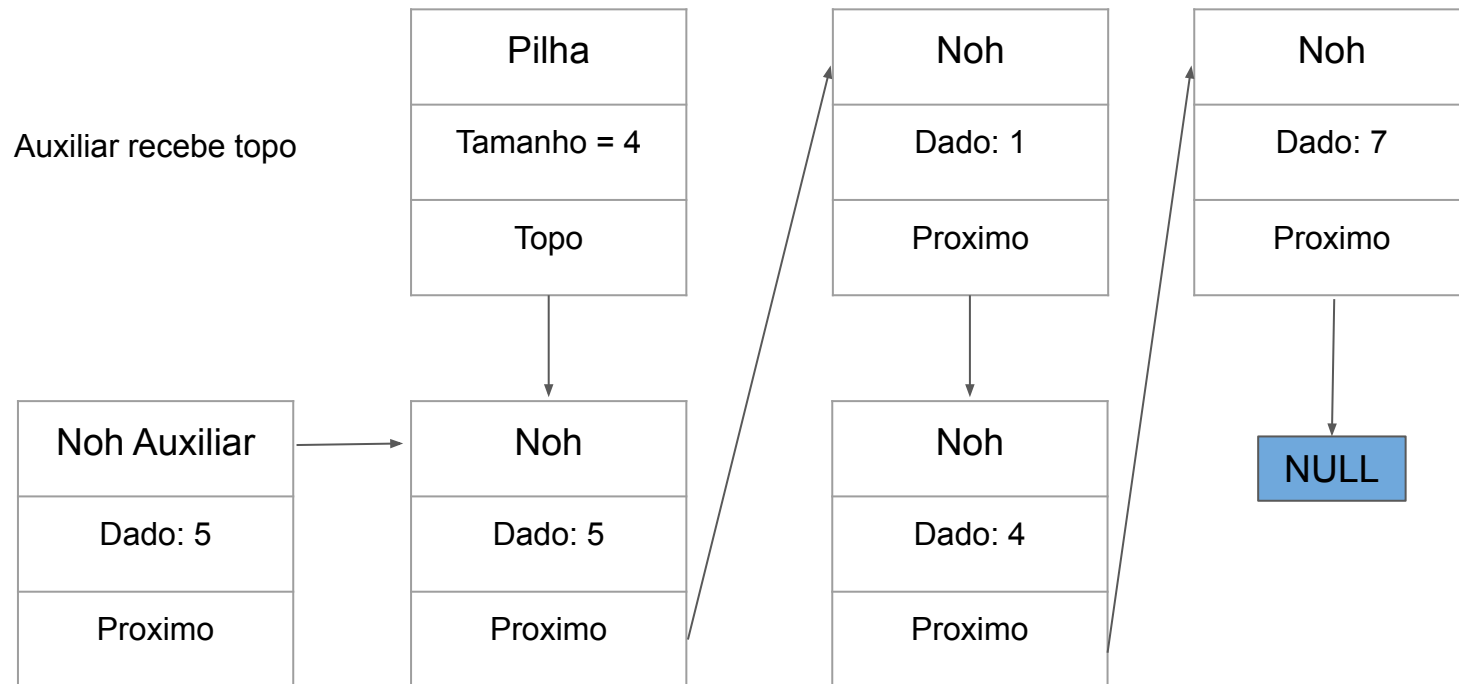
## Questão 2

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



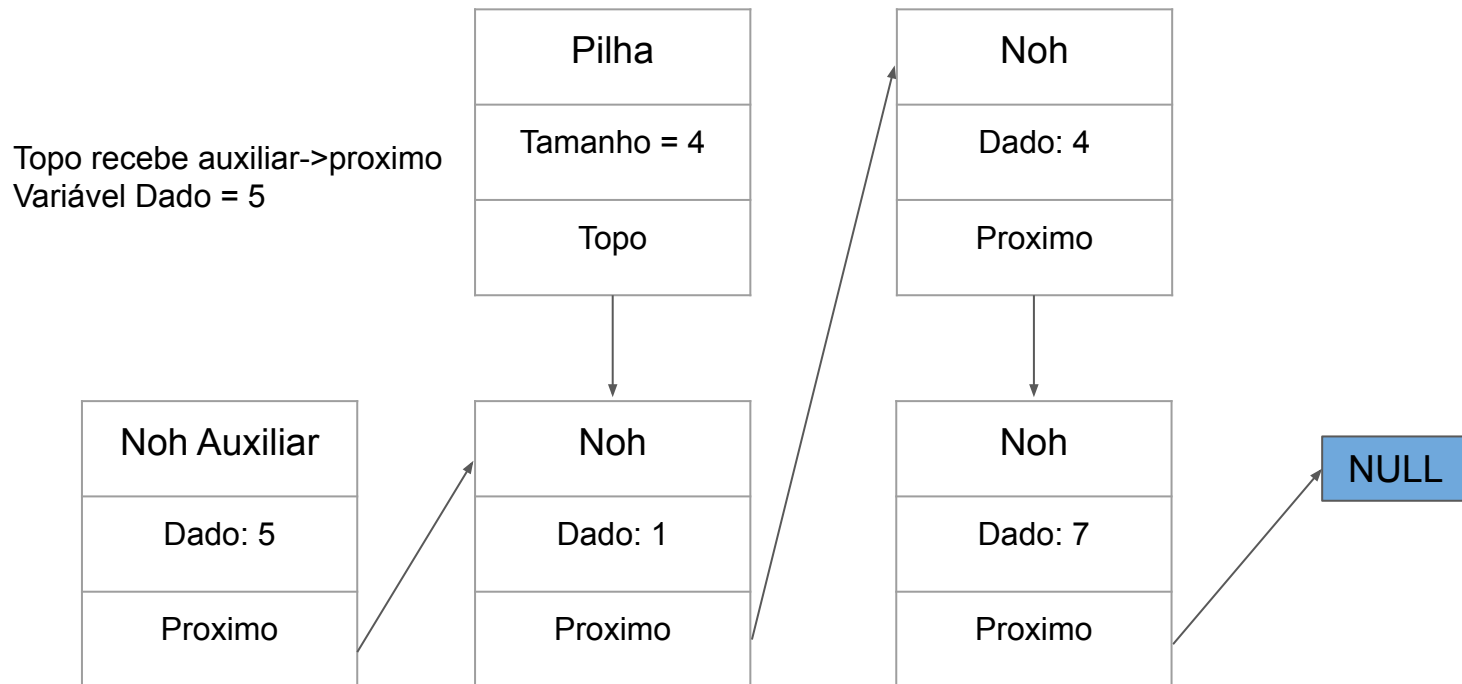
# Questão 2

- 4 - Desempilhar



# Questão 2

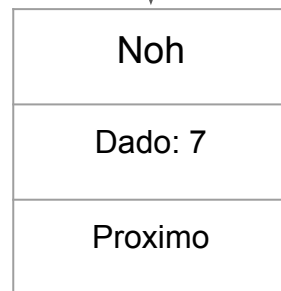
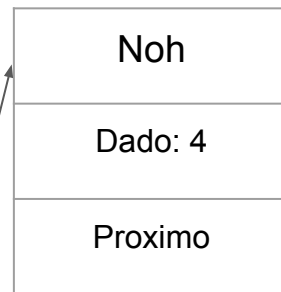
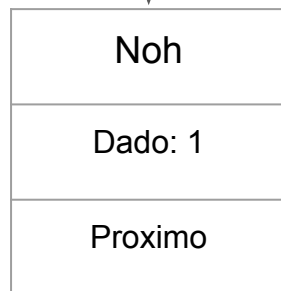
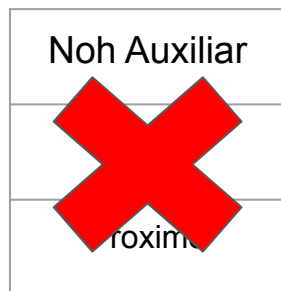
- 4 - Desempilhar



# Questão 2

- 4 - Desempilhar

Apaga Auxiliar



NULL

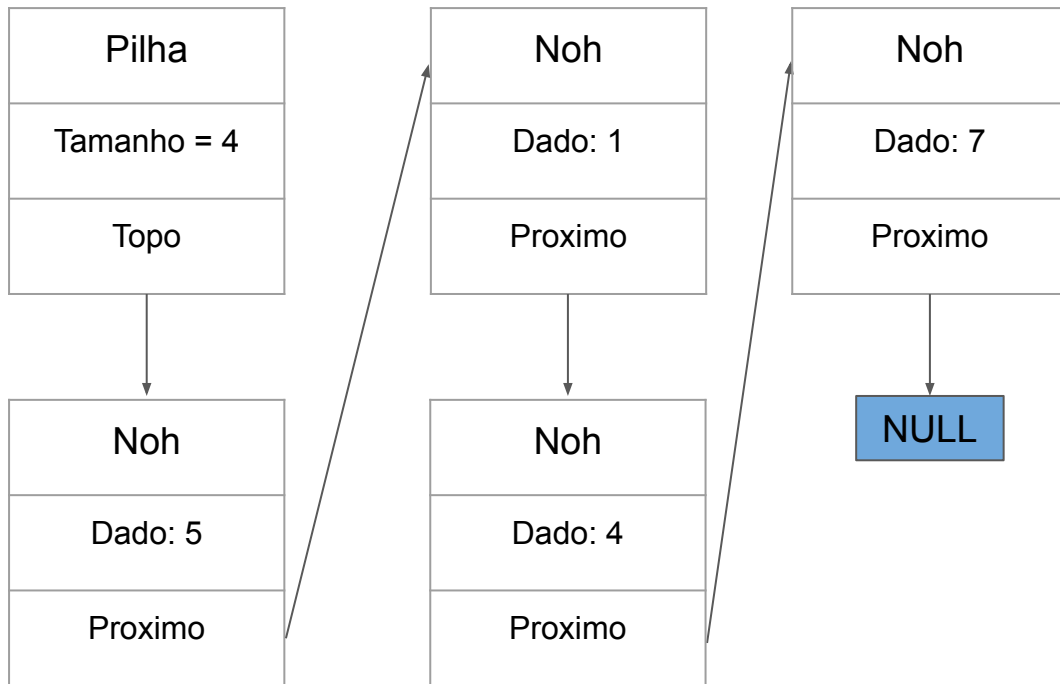
## Questão 2

- 5 - Empilhar elementos 5, 9 e 10



Criar Noh

Inserir Noh na Pilha



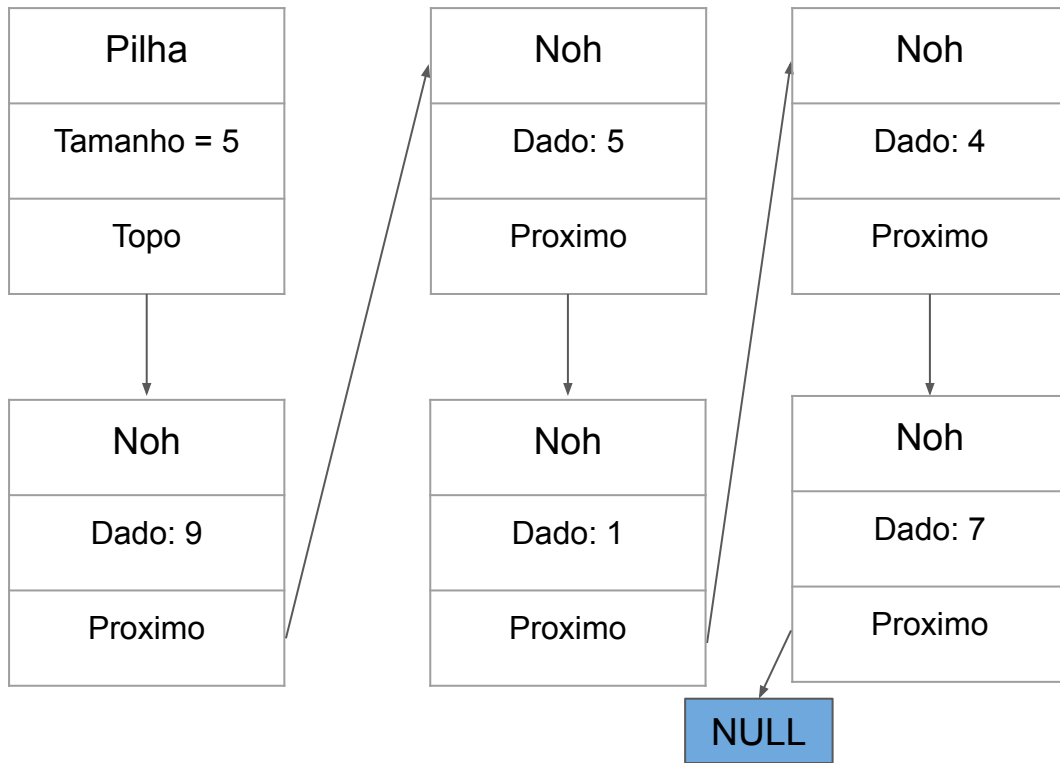
## Questão 2

- 5 - Empilhar elementos 5, 9 e 10



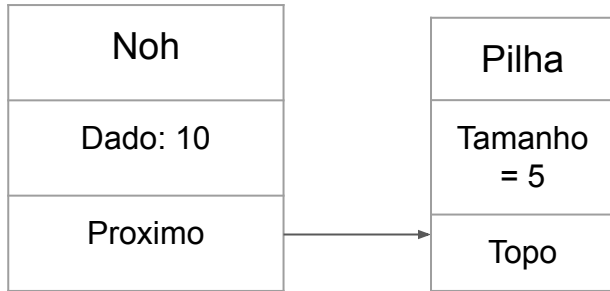
Criar Noh

Inserir Noh na Pilha



## Questão 2

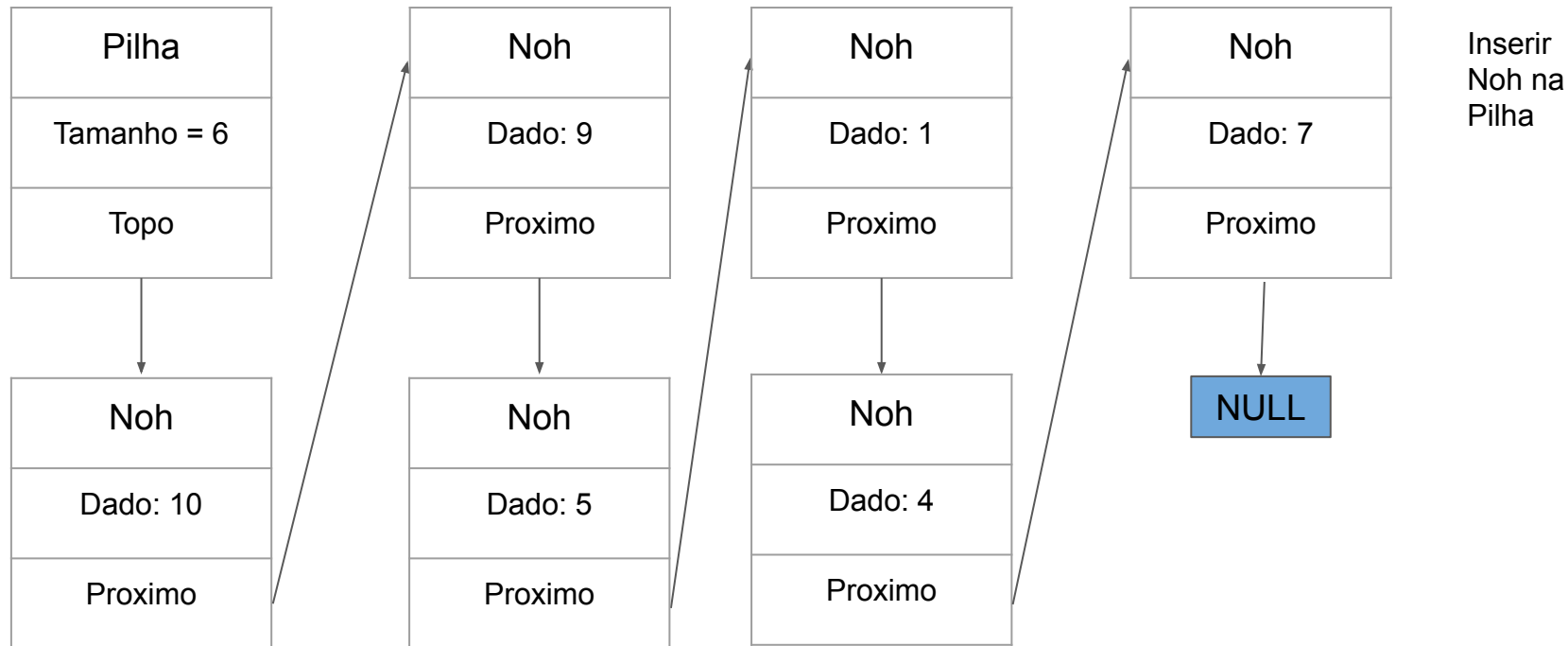
- 5 - Empilhar elementos 5, 9 e 10



Criar Noh

## Questão 2

- 5 - Empilhar elementos 5, 9 e 10

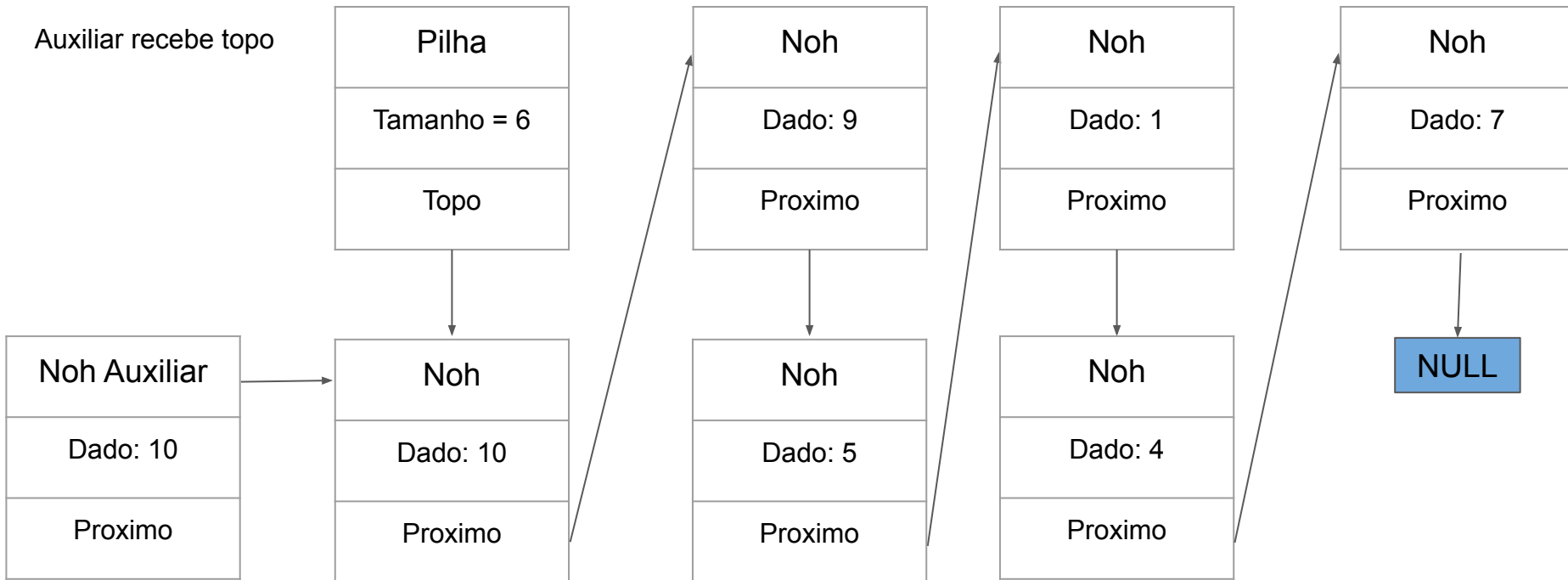




# Questão 2

- 6 - Desempilhar

Auxiliar recebe topo

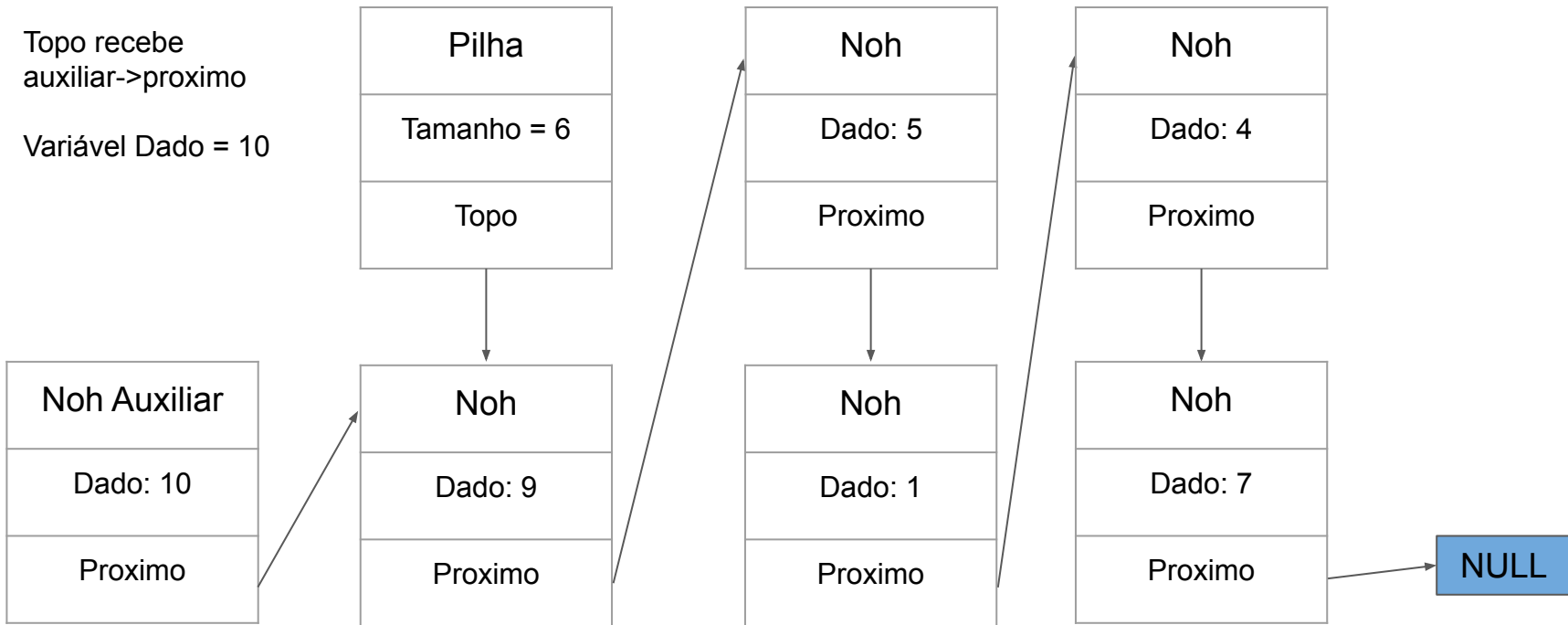


# Questão 2

- 6 - Desempilhar

Topo recebe  
auxiliar->proximo

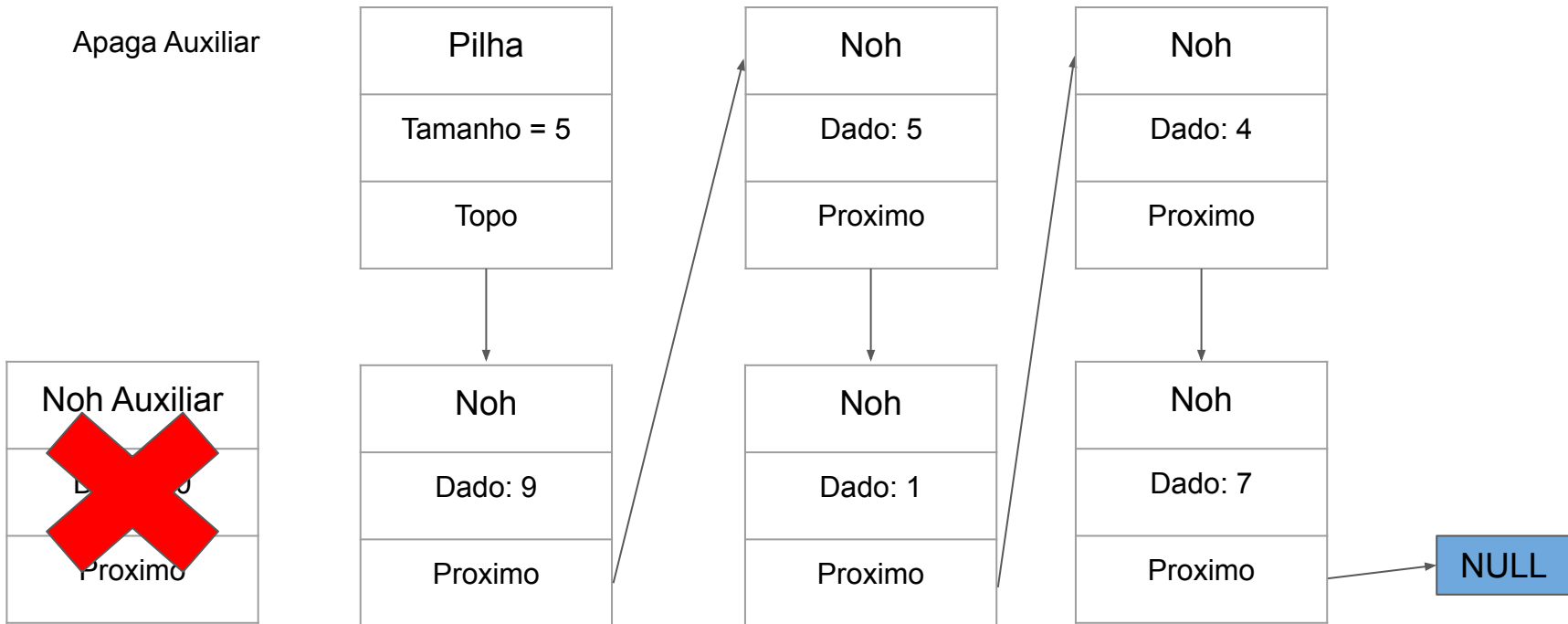
Variável Dado = 10



# Questão 2

- 6 - Desempilhar

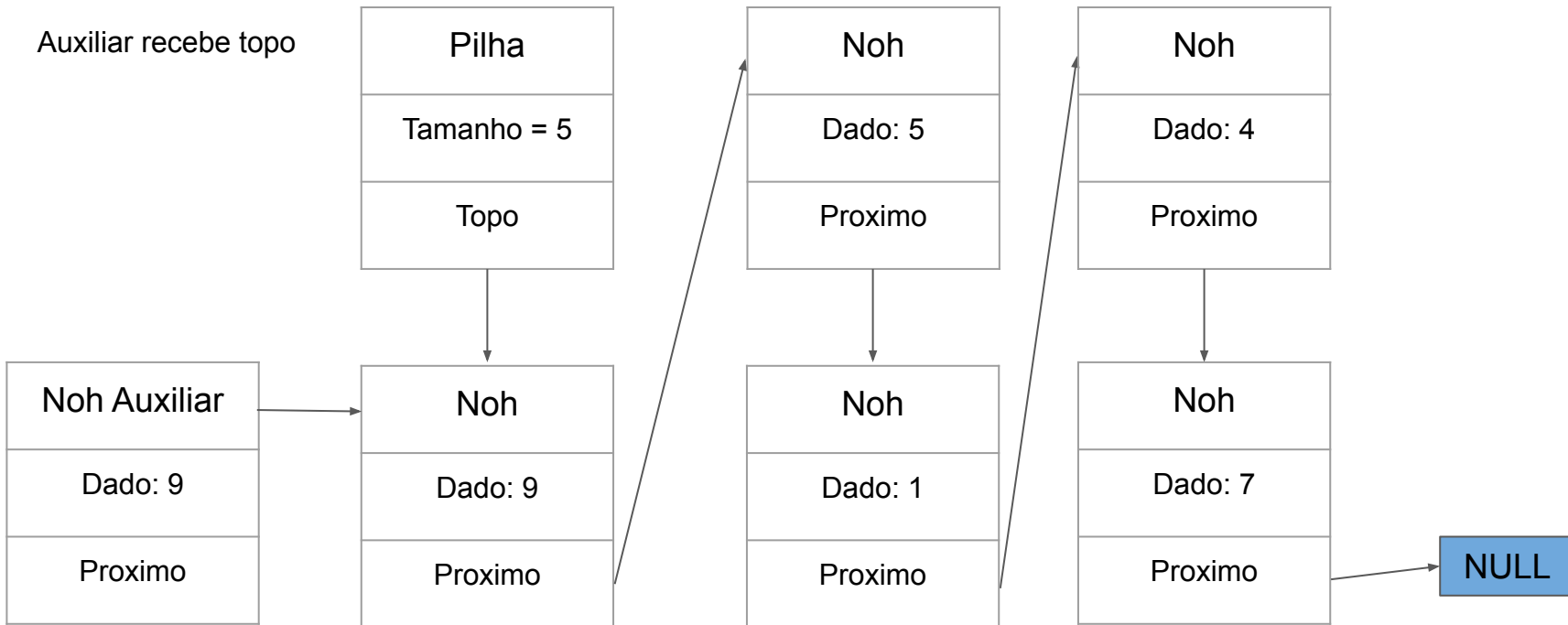
Apaga Auxiliar



# Questão 2

- 7 - Desempilhar

Auxiliar recebe topo

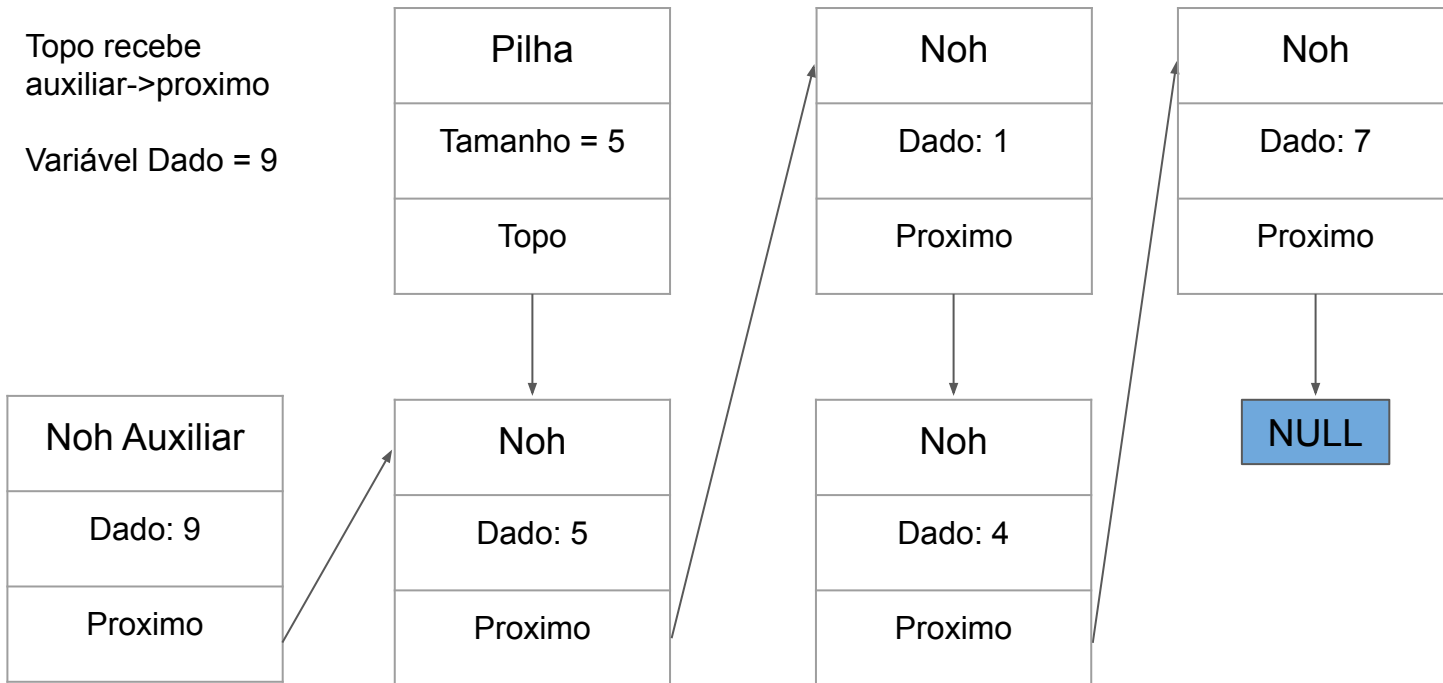


# Questão 2

- 7 - Desempilhar

Topo recebe  
auxiliar->proximo

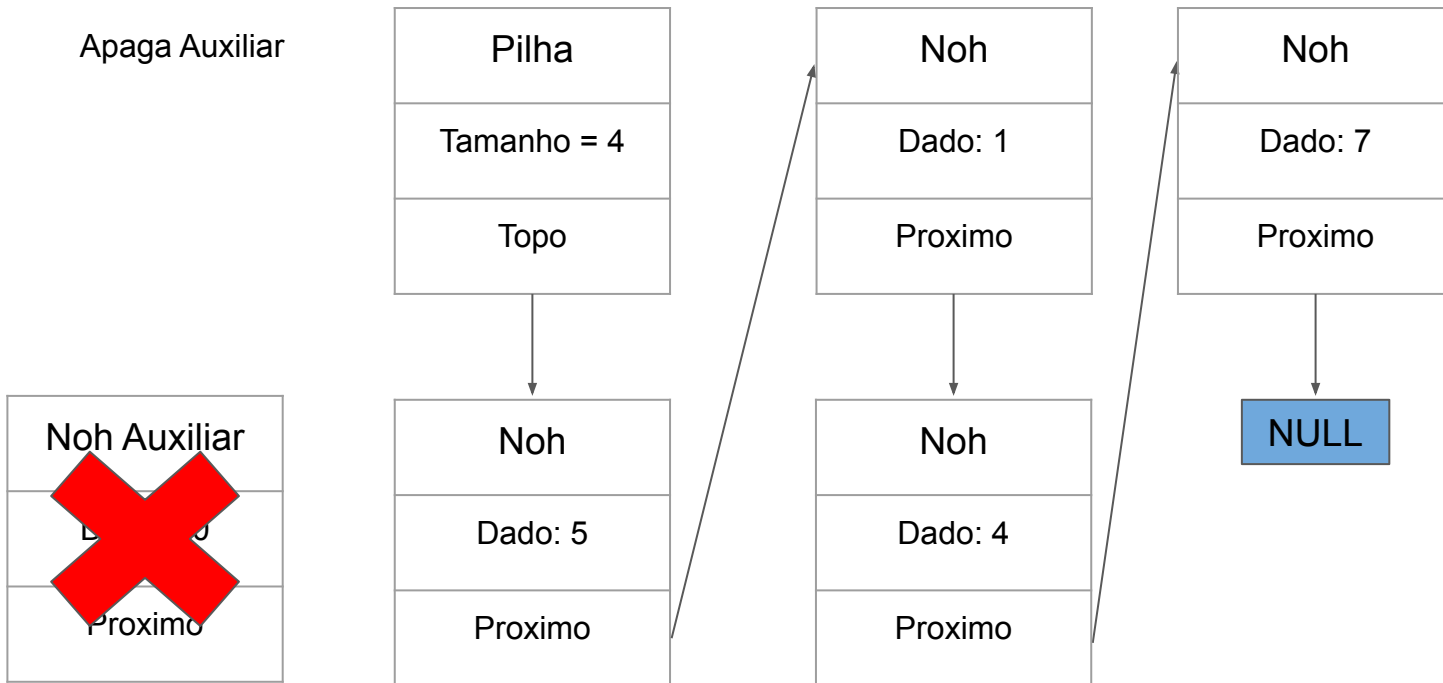
Variável Dado = 9



# Questão 2

- 7 - Desempilhar

Apaga Auxiliar



# Questão 4



## Questão 4

Topo

1

4

7

3

9

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Pilha  
Principal

Topo

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Pilha  
Auxiliar 1

Topo

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Pilha  
Auxiliar 2

Topo

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Resultado



## Questão 4

Topo

4

7

3

9

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Pilha  
Original

Topo

1

---

Pilha  
Auxiliar 1

Topo

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Pilha  
Auxiliar 2

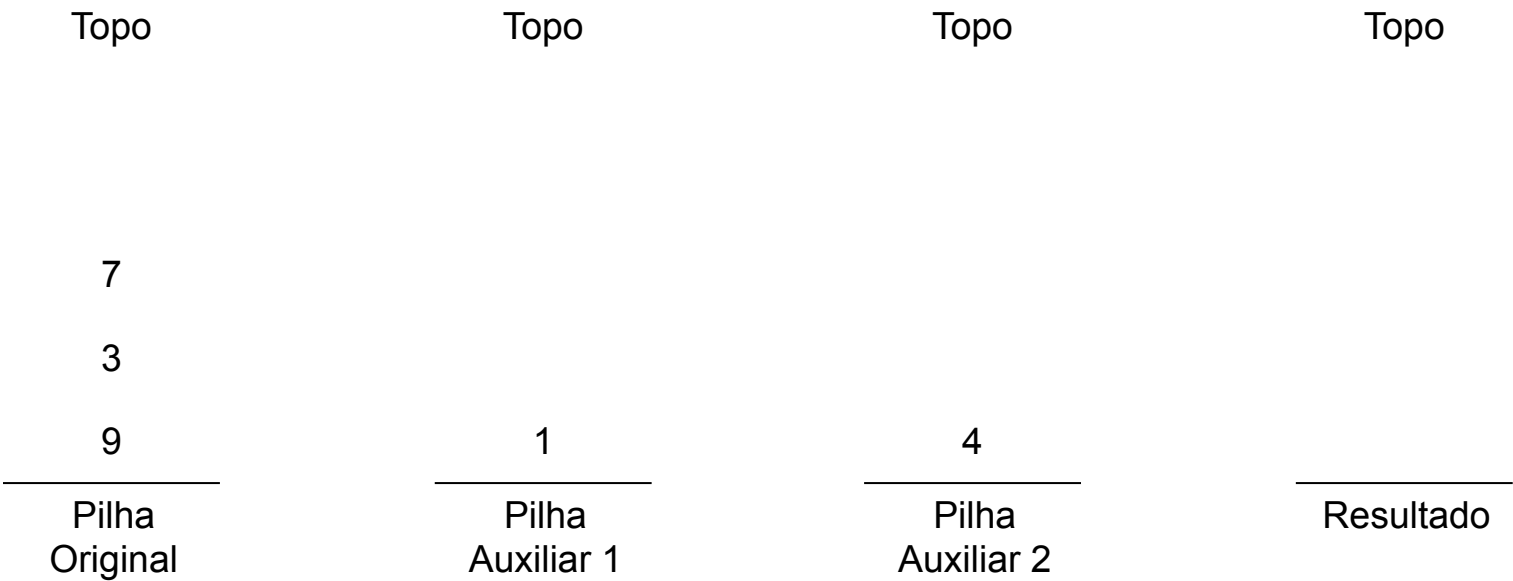
Topo

---

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.

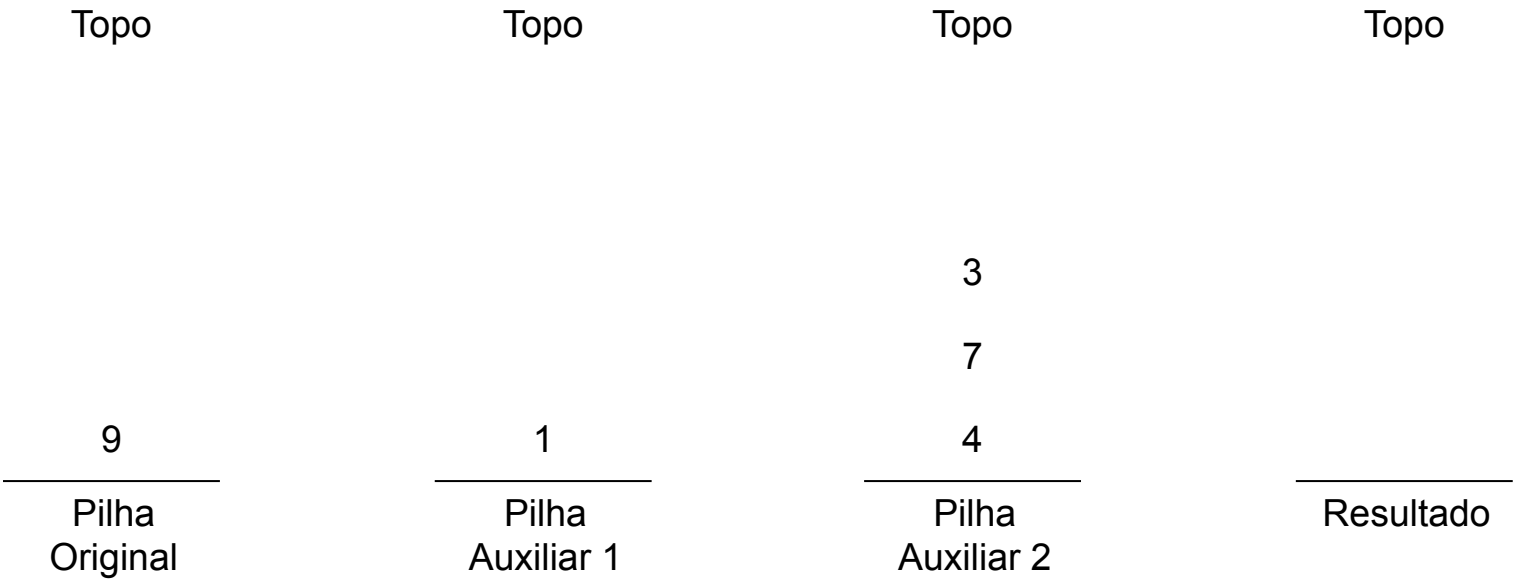
# Questão 4



# Questão 4

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

# Questão 4



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

## Questão 4

Topo

9

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Pilha  
Original

Topo

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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

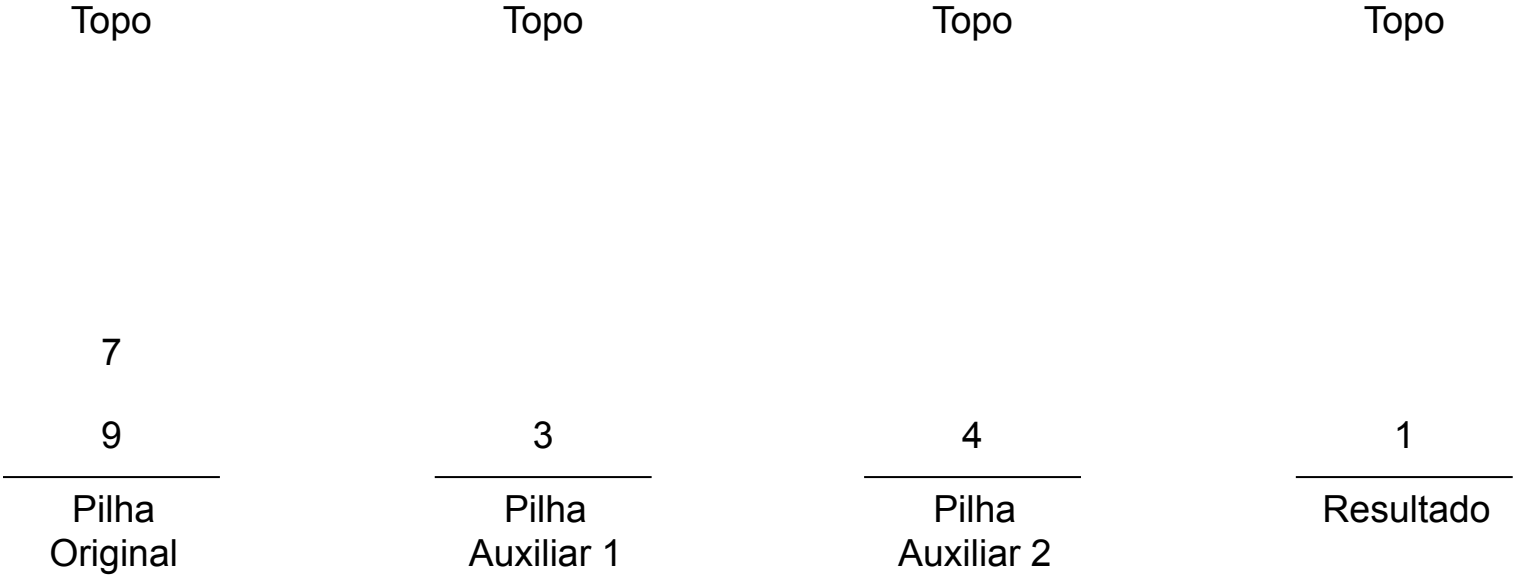
1

---

Resultado

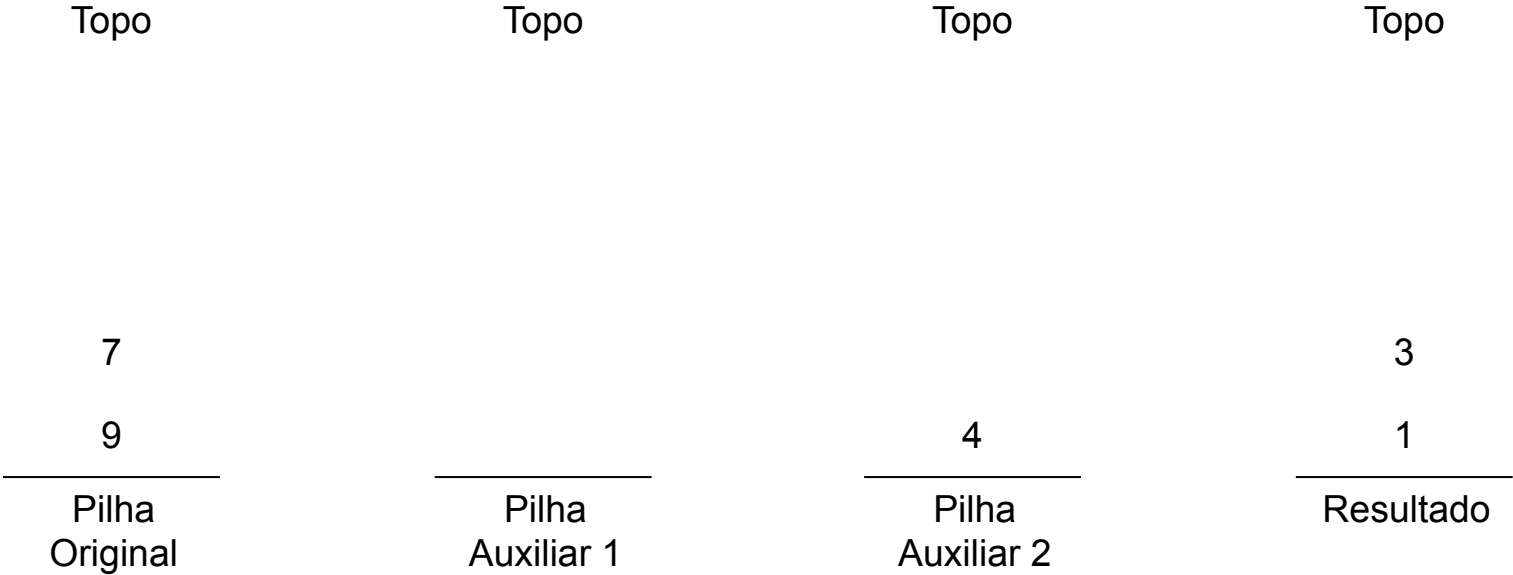
obs: Nesse caso, o dado 3 será comparado com os demais

# Questão 4



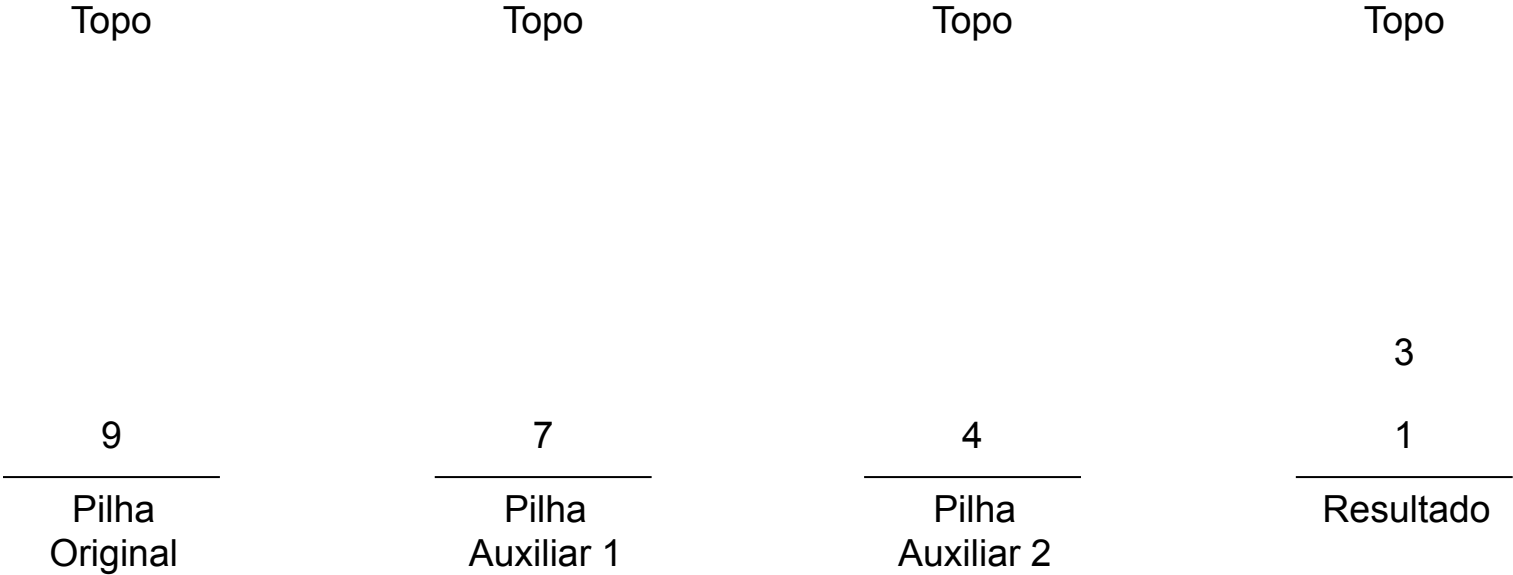
O dado 3 é menor que os demais, então:  
Desempilha Auxiliar 1 e Empilha Resultado

# 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

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Pilha  
Original

Topo

7

---

Pilha  
Auxiliar 1

Topo

---

Pilha  
Auxiliar 2

Topo

4

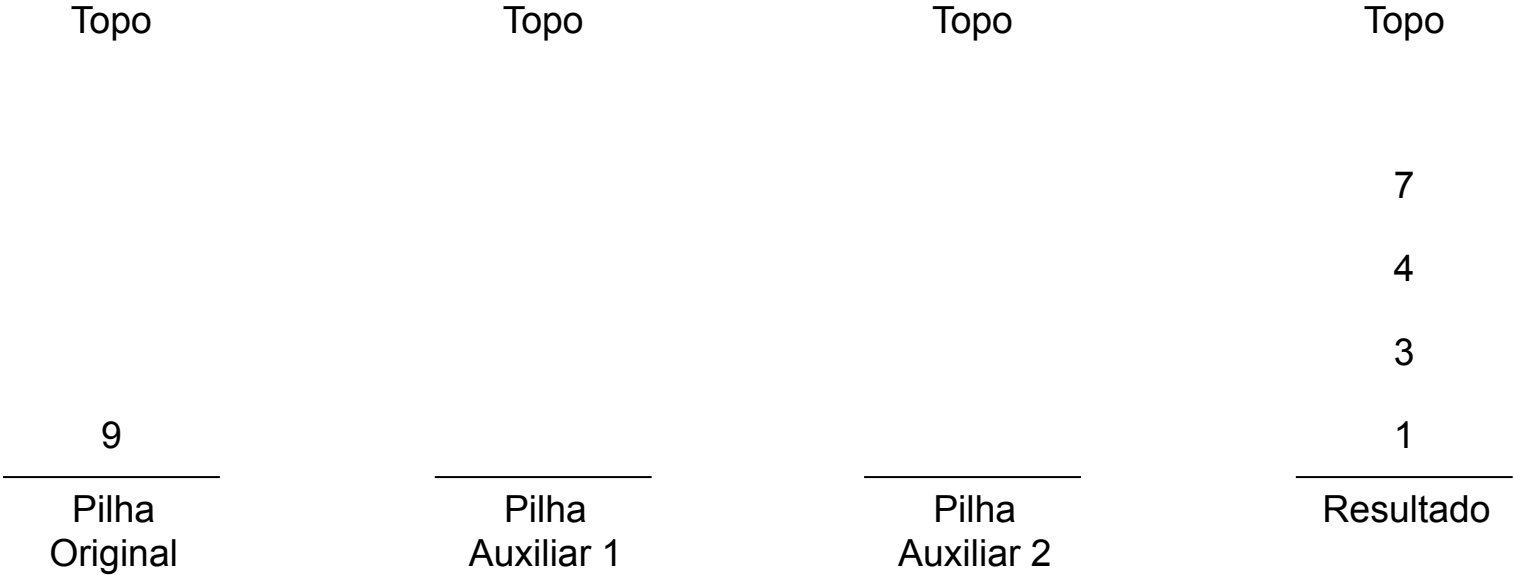
3

1

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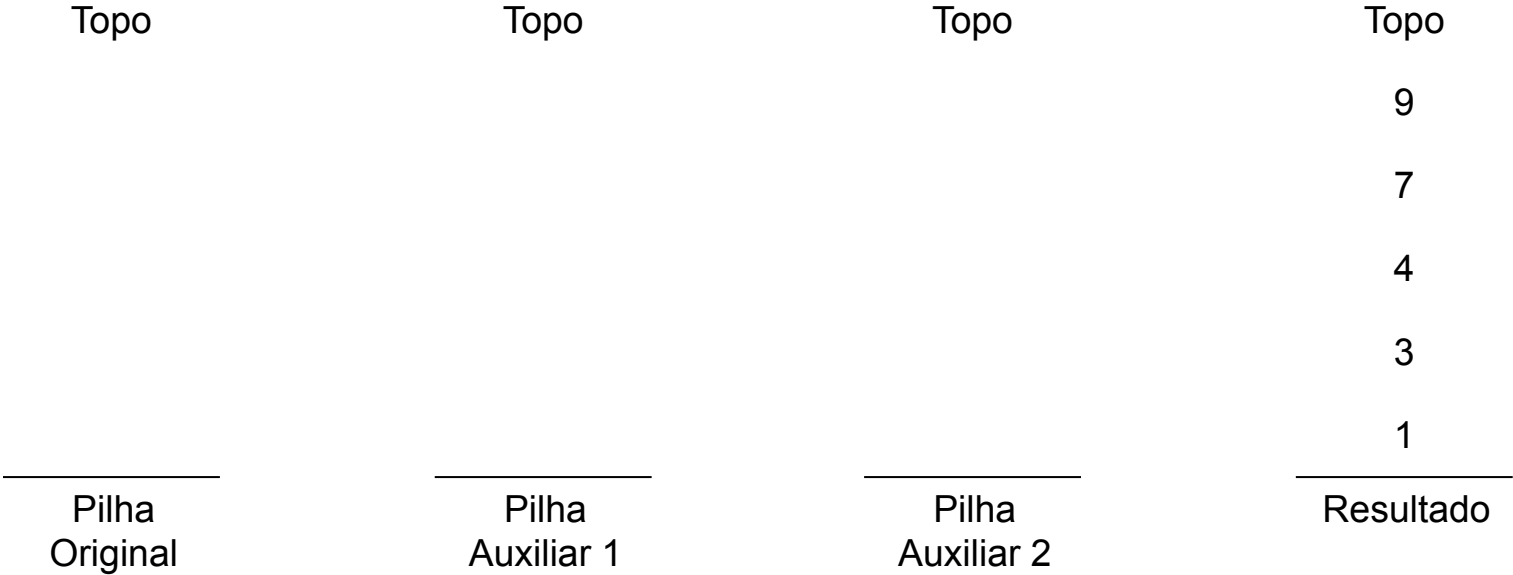
Resultado

# Questão 4



# Questão 4

**FIM!**

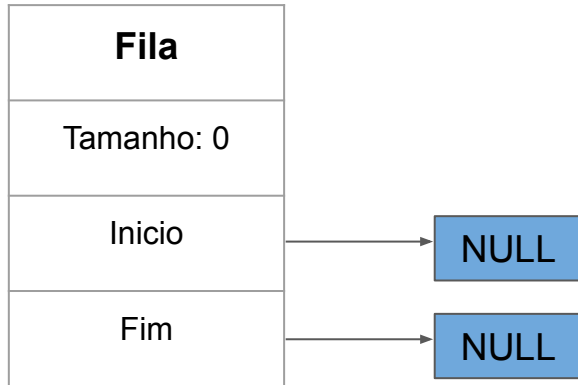


# Questão 8



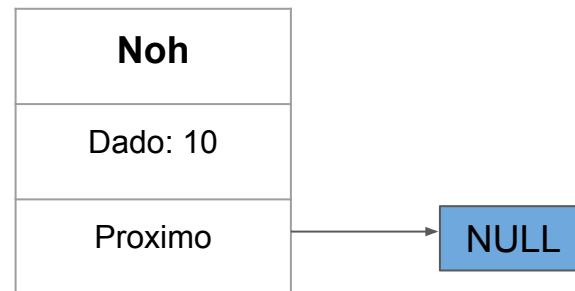
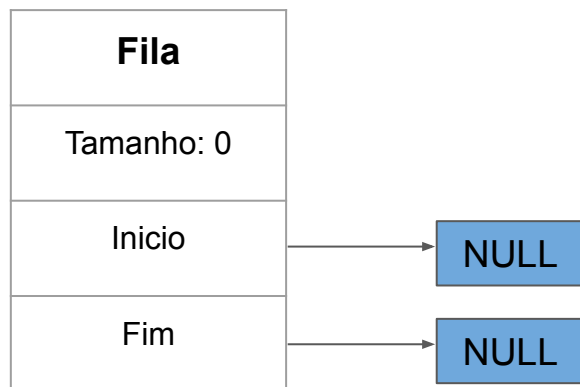
# Questão 8

- 0 -Criar Fila



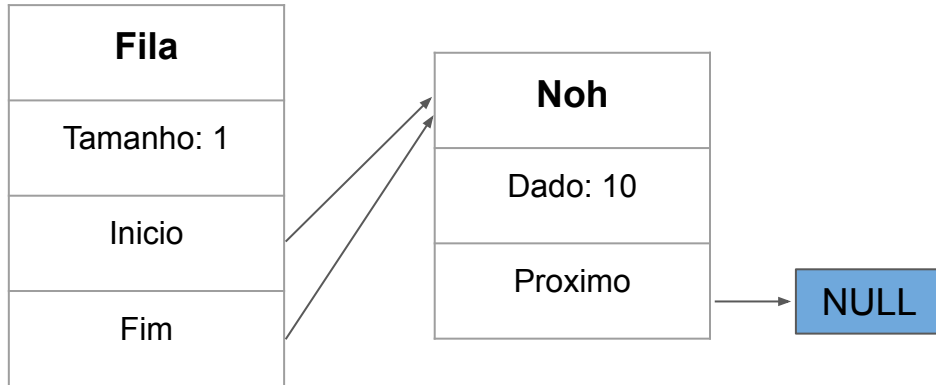
## Questão 8

- 1. Enfileirar elemento 10



## Questão 8

- 1. Enfileirar elemento 10

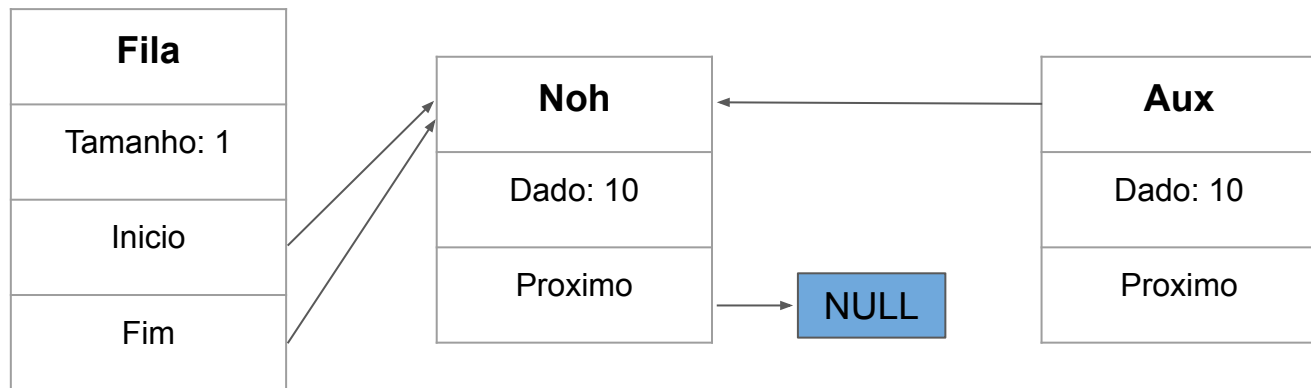




Aux recebe o Noh de Início (que no caso é igual ao fim)

## Questão 8

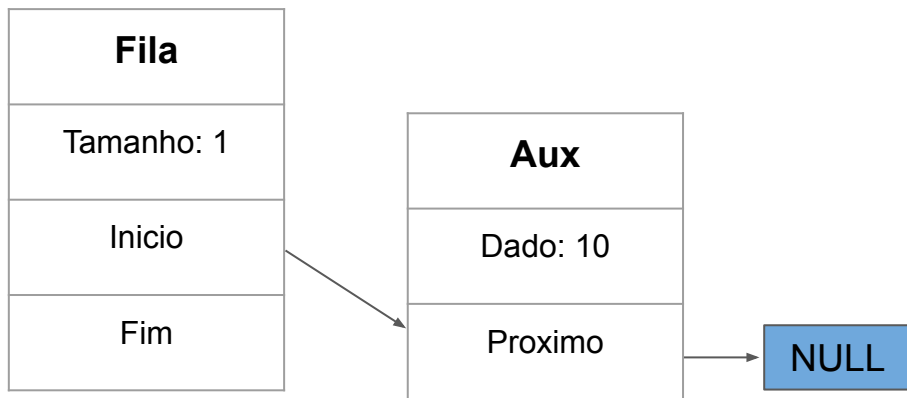
- 2 - Desenfileirar



Inicio recebe aux.proximo (NULL)  
Dado=3

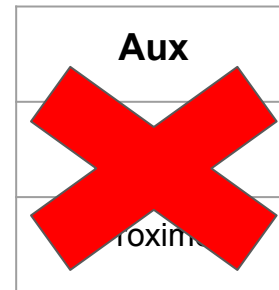
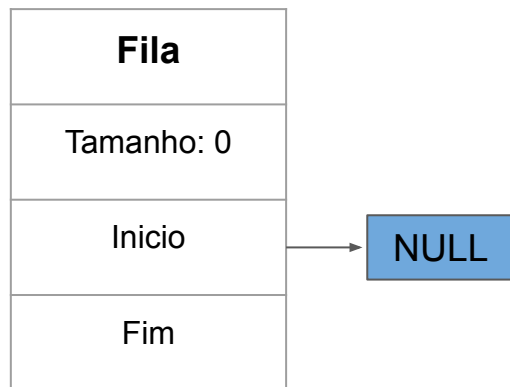
## Questão 8

- 2 - Desenfileirar



## Questão 8

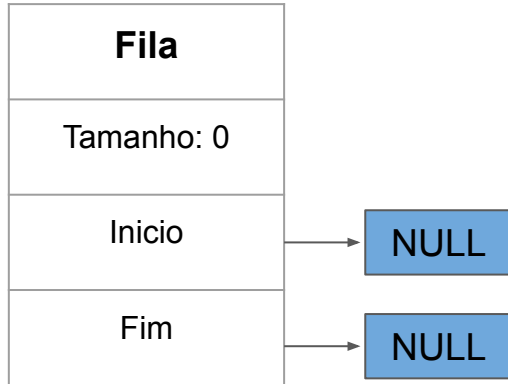
- 2 - Desenfileirar



Como a fila ficou vazia, Fim recebe NULL

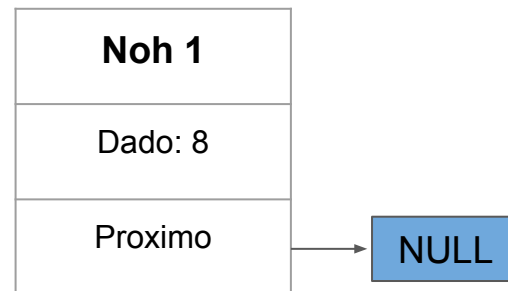
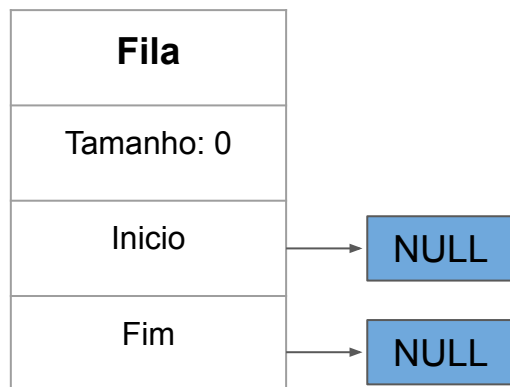
## Questão 8

- 2 - Desenfileirar



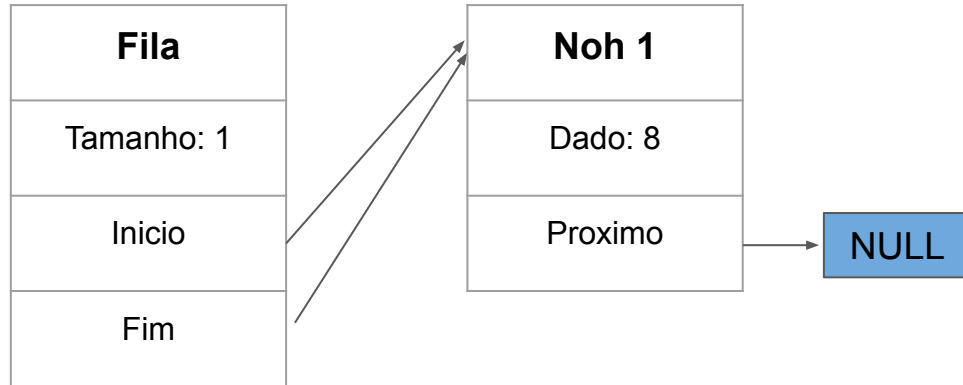
## Questão 8

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



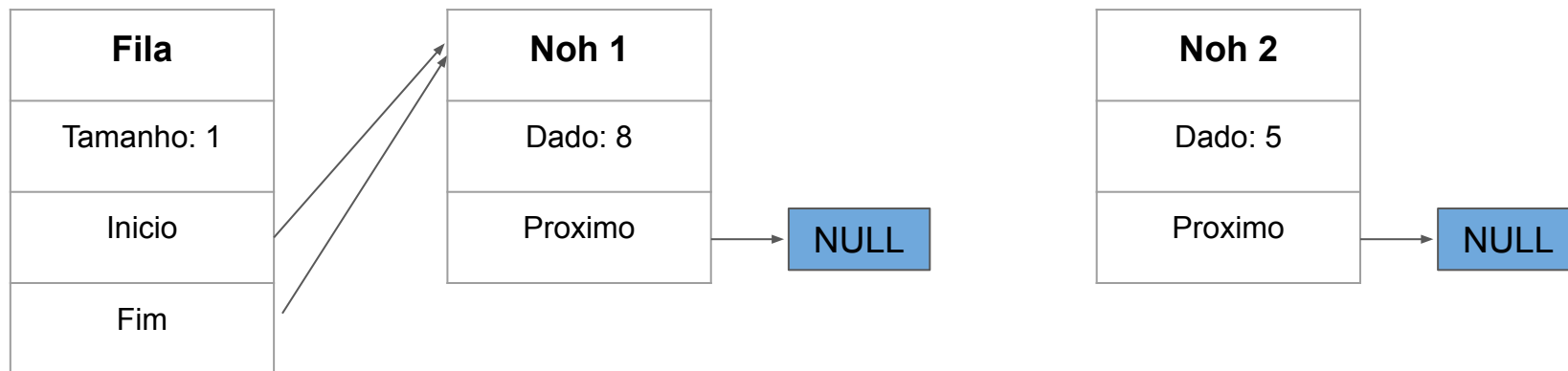
## Questão 8

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



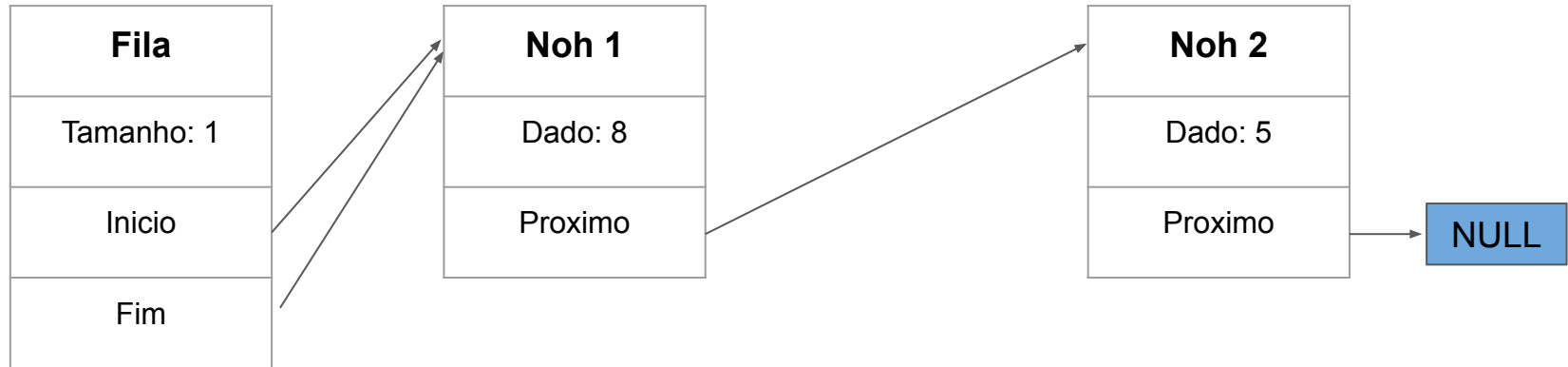
## Questão 8

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



# Questão 8

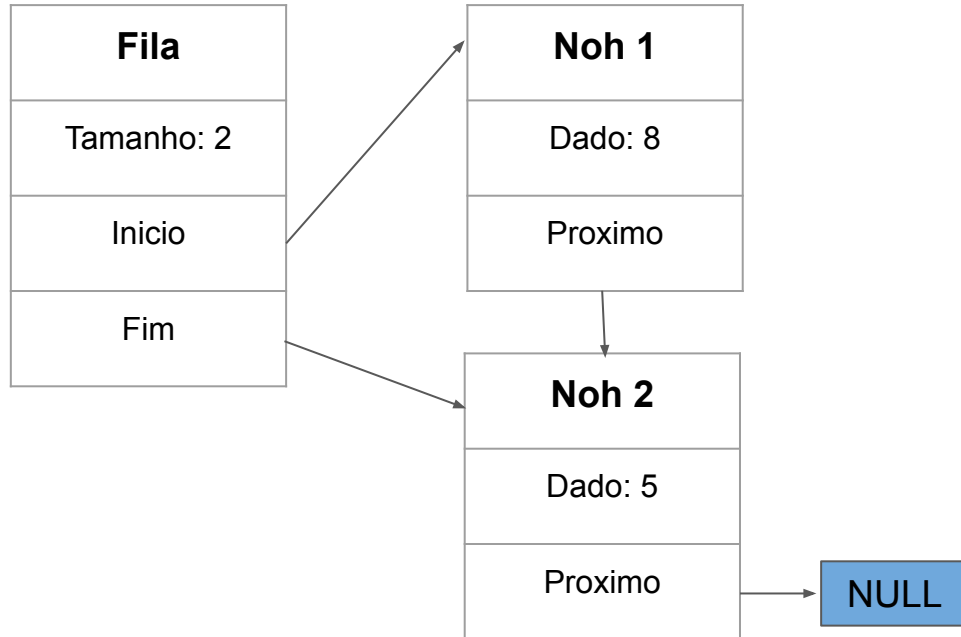
- 3. Enfileirar elementos 8, 5, 1, 3





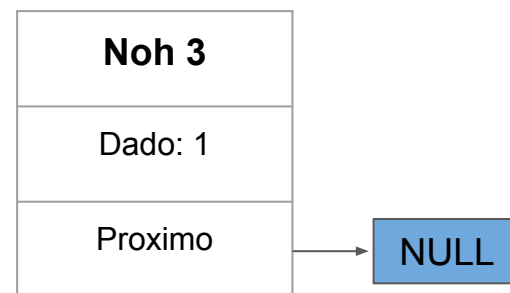
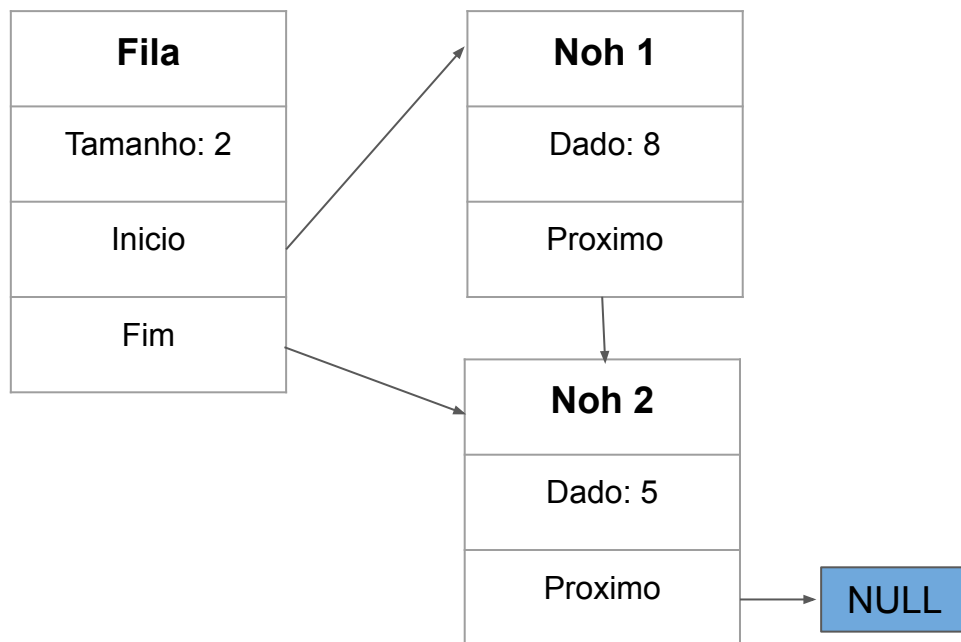
## Questão 8

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



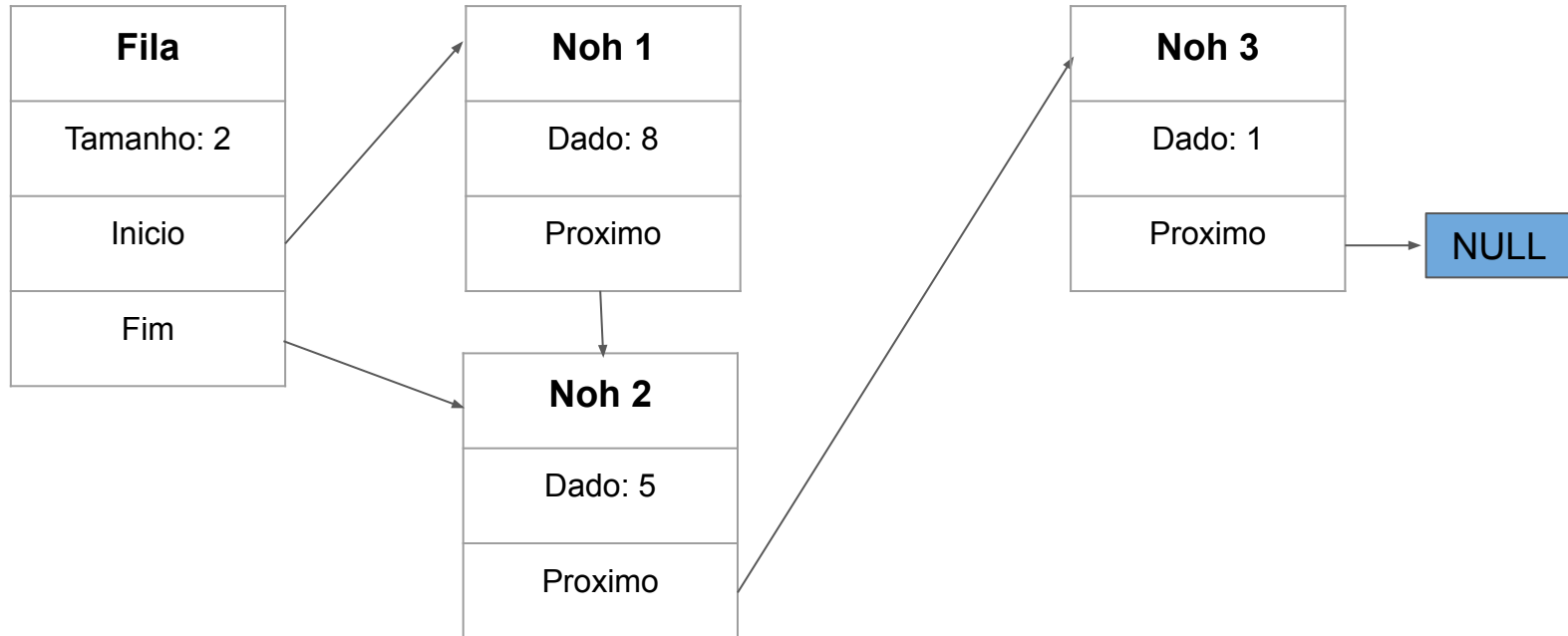
## Questão 8

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



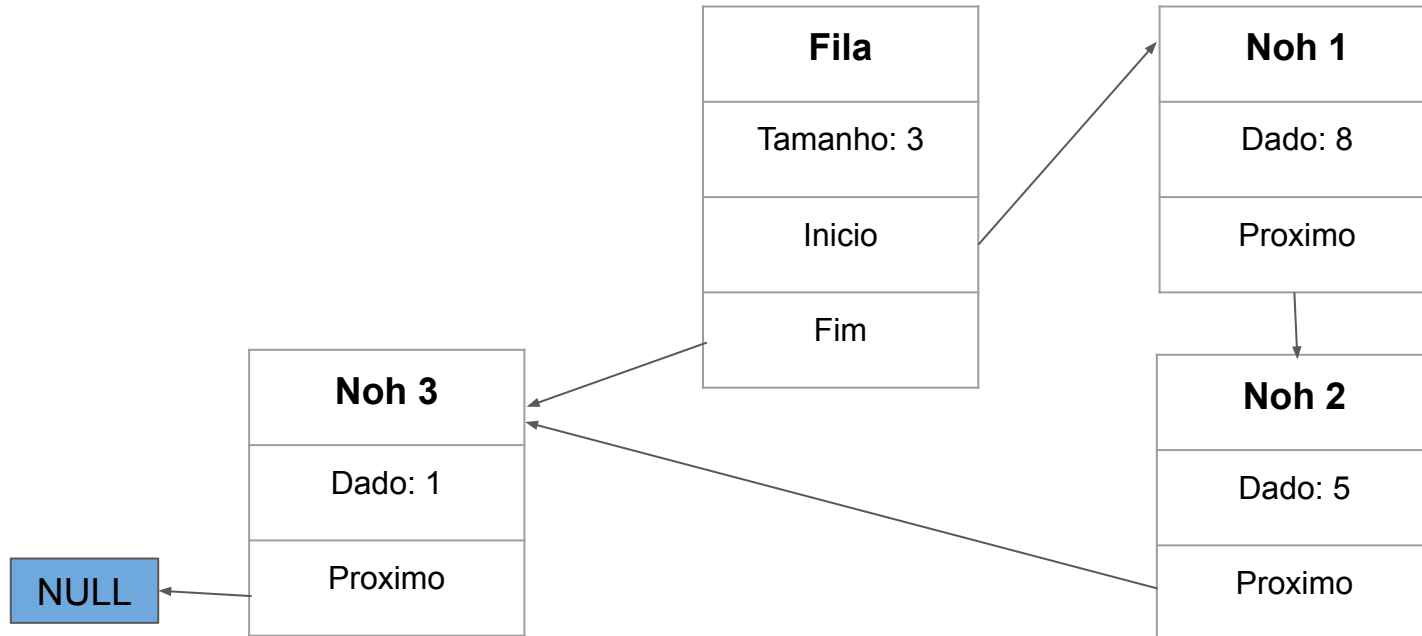
# Questão 8

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



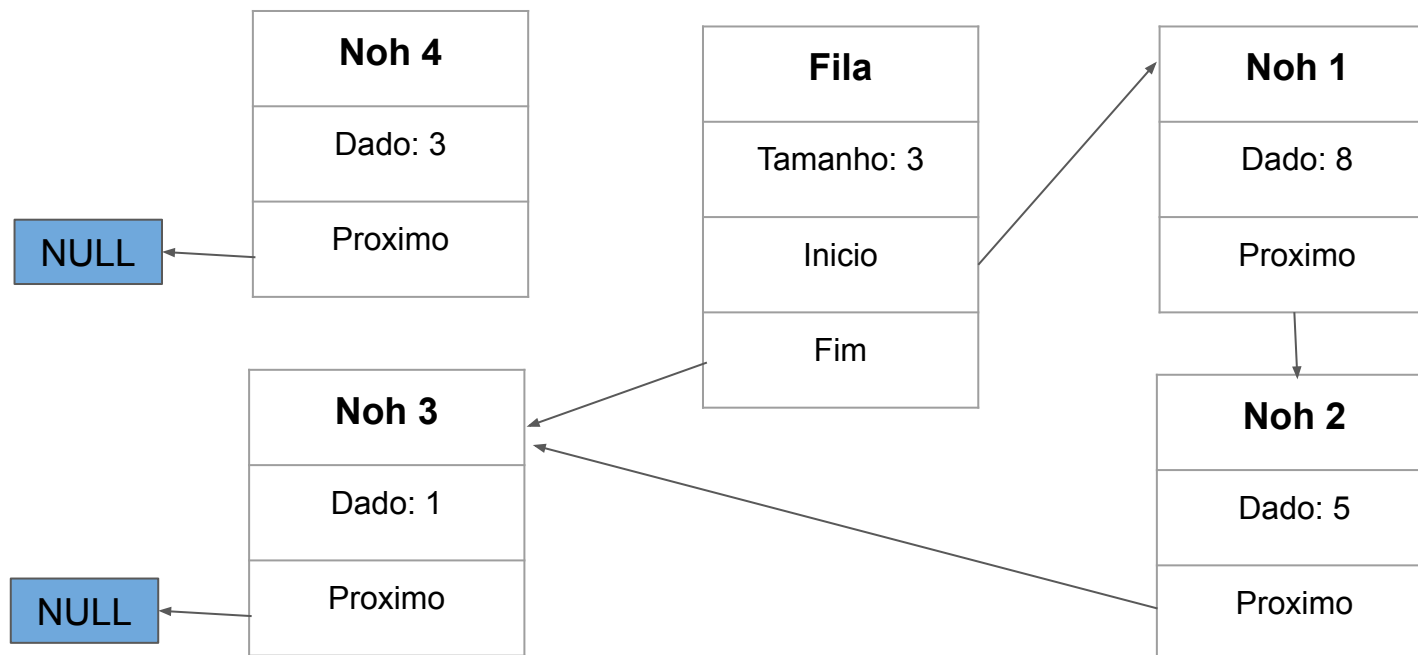
## Questão 8

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



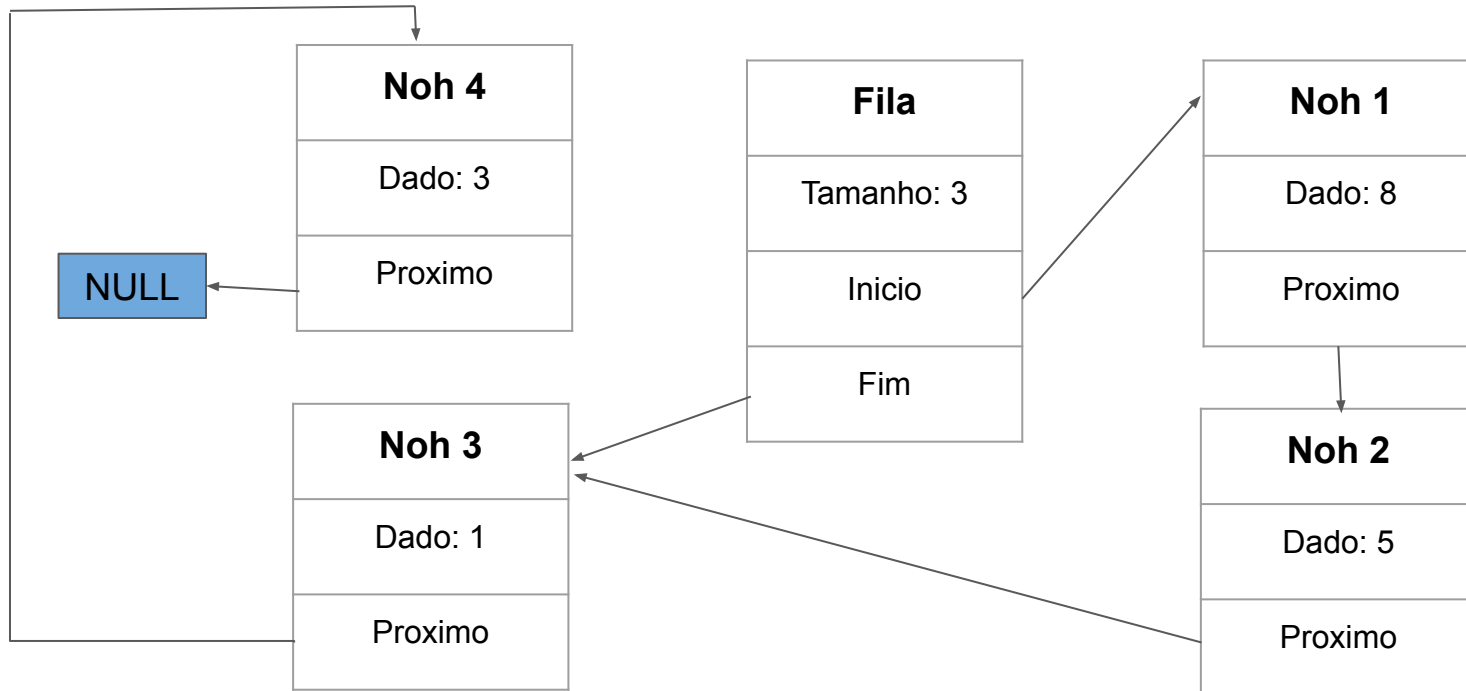
## Questão 8

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



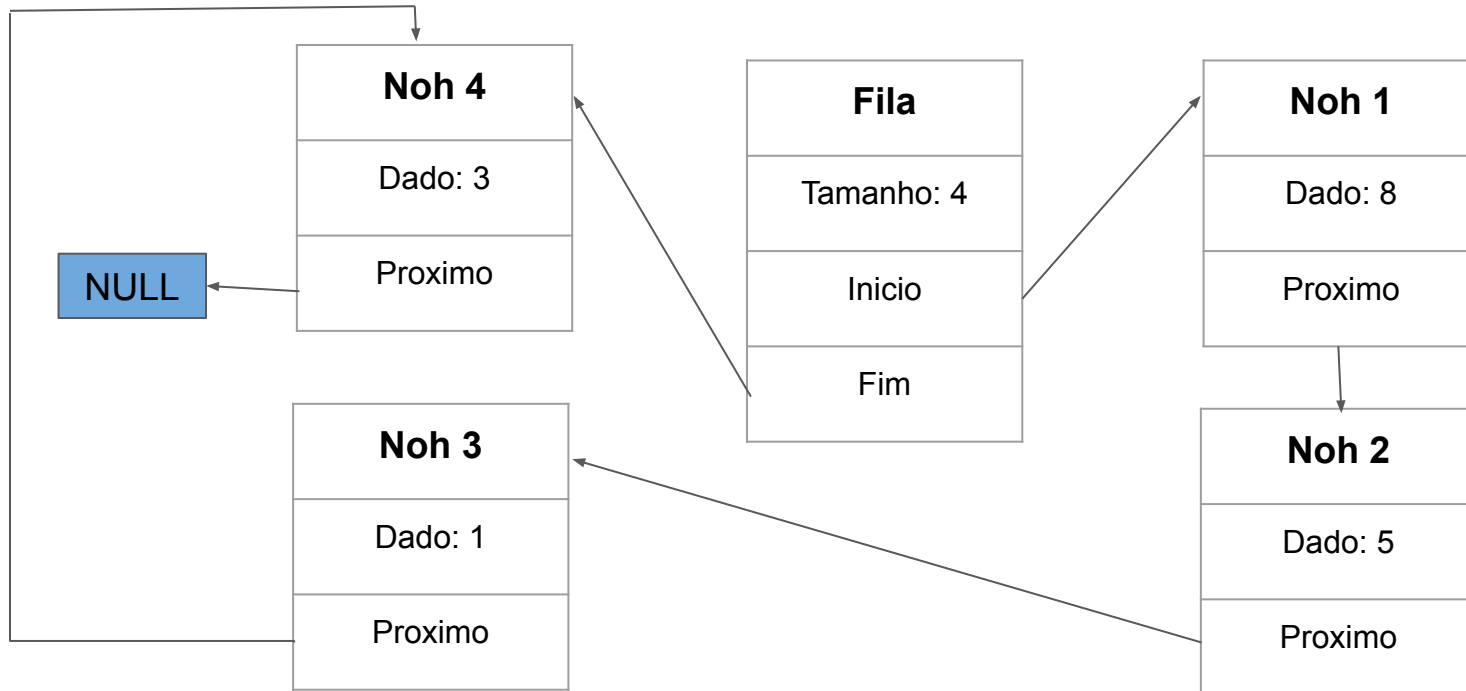
# Questão 8

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



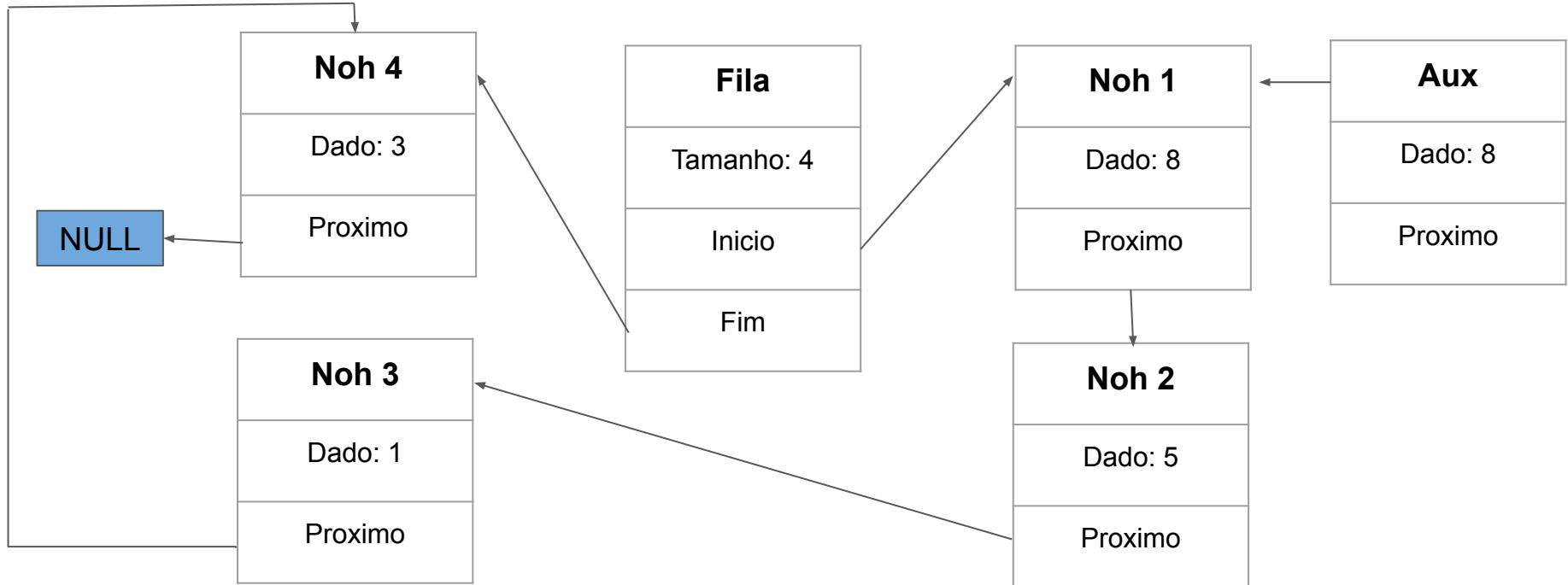
## Questão 8

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



# Questão 8

- 4. Desenfileirar

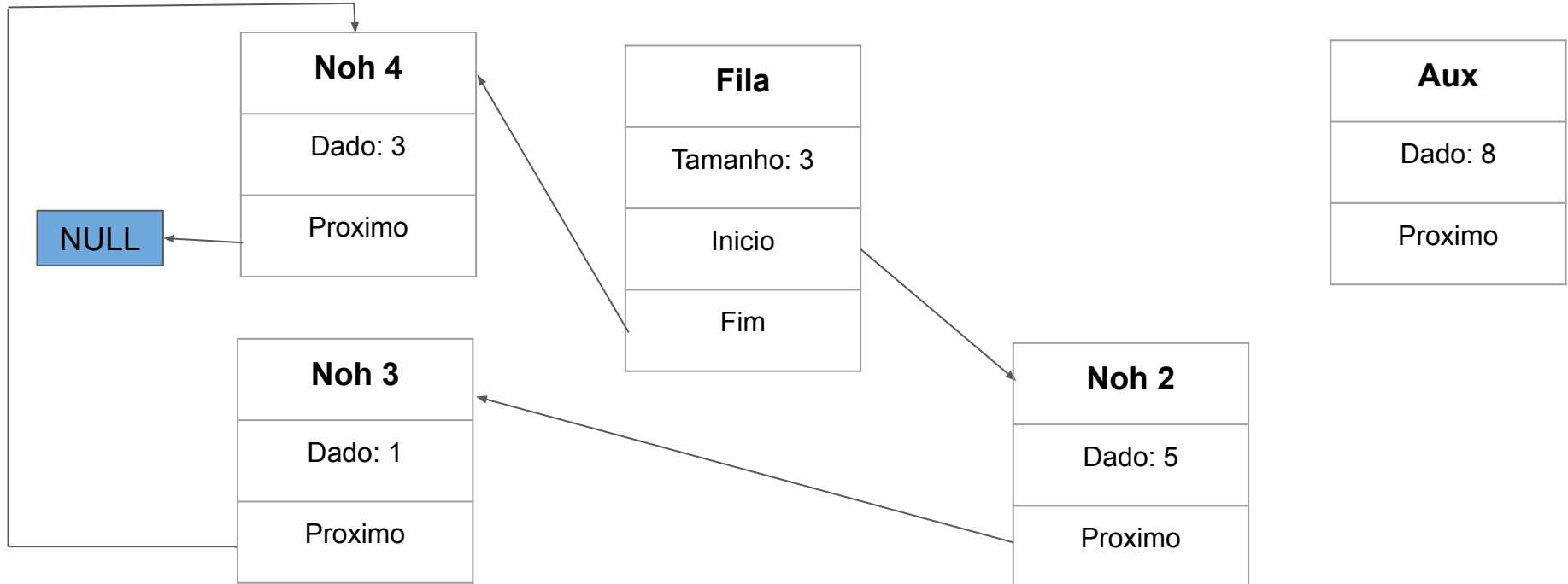




Inicio recebe aux.proximo  
Tamanho--

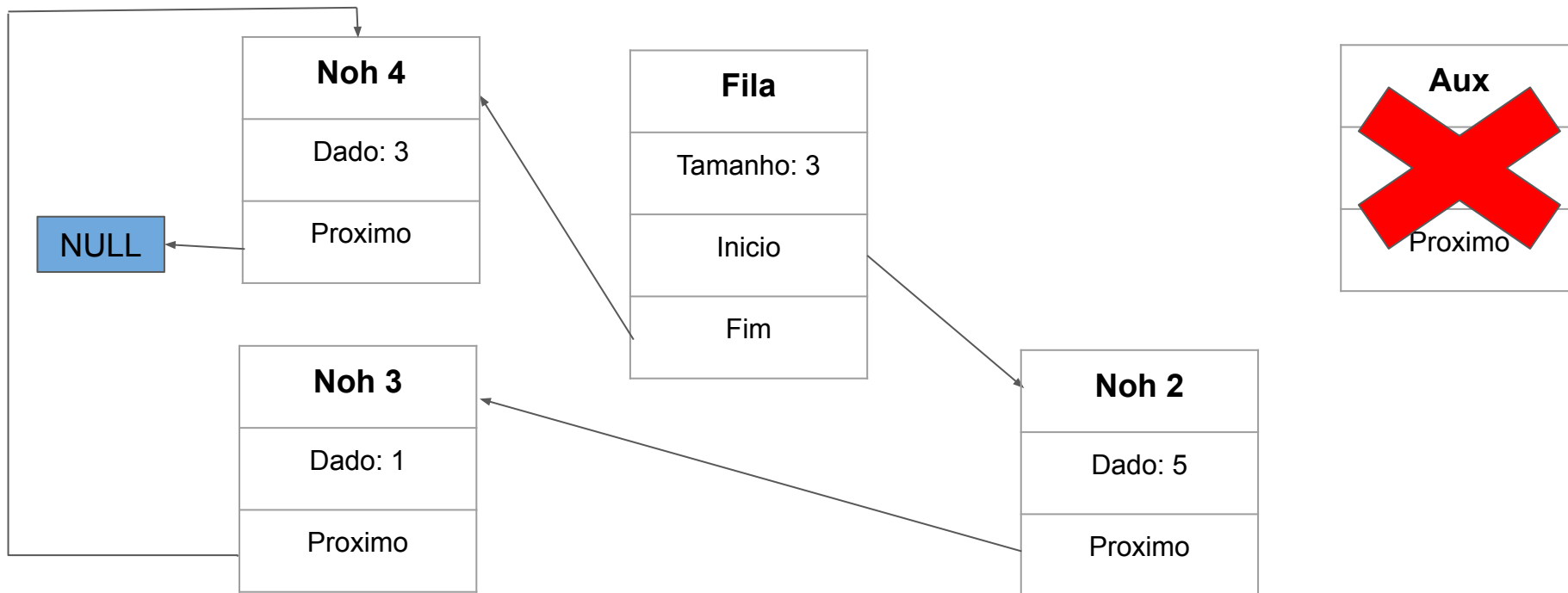
## Questão 8

- 4. Desenfileirar



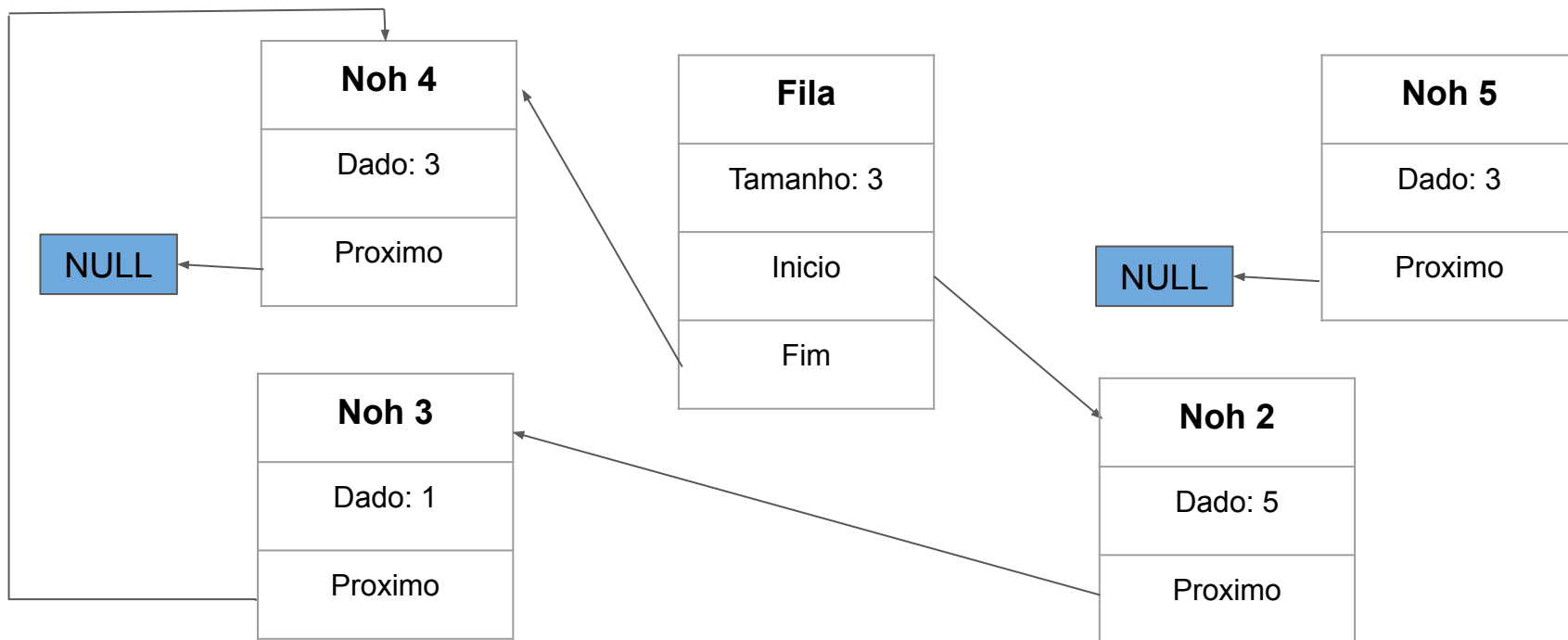
# Questão 8

- 4. Desenfileirar



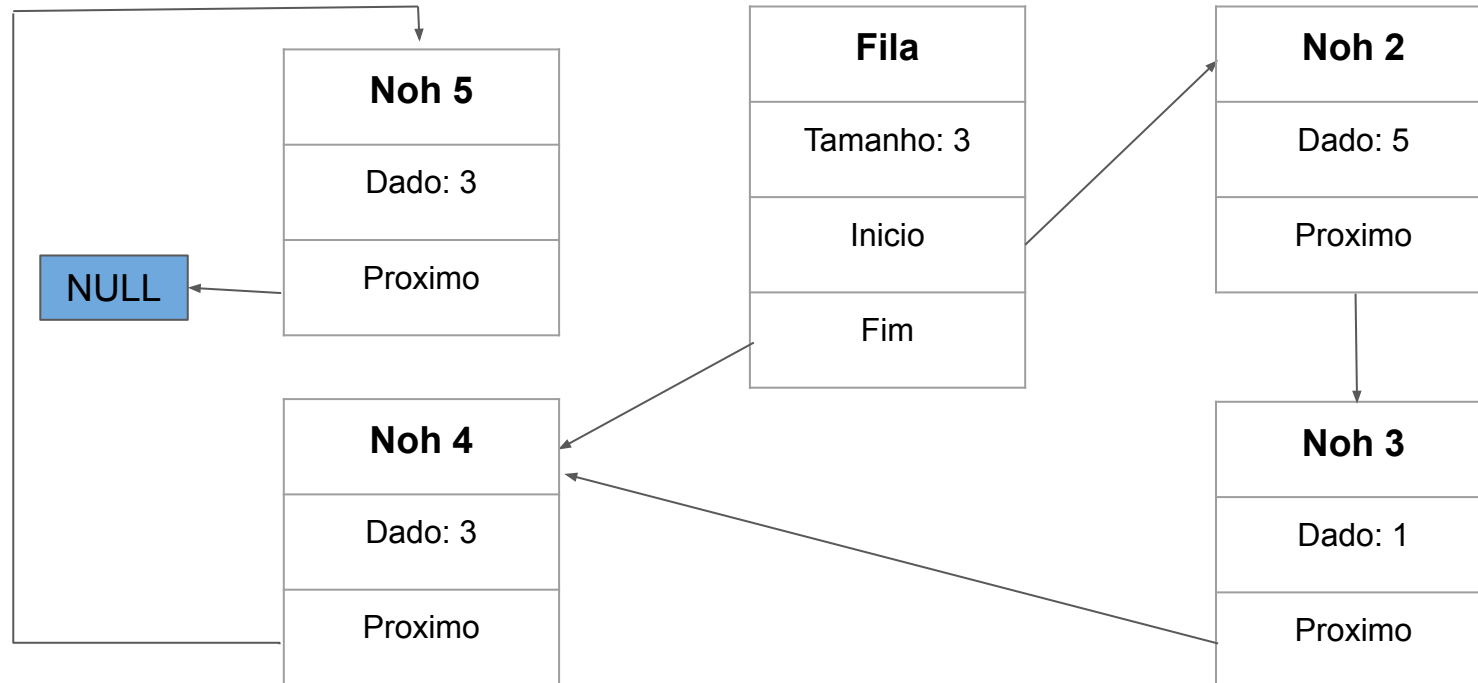
# Questão 8

- 5. Enfileirar elementos 3, 9, 10



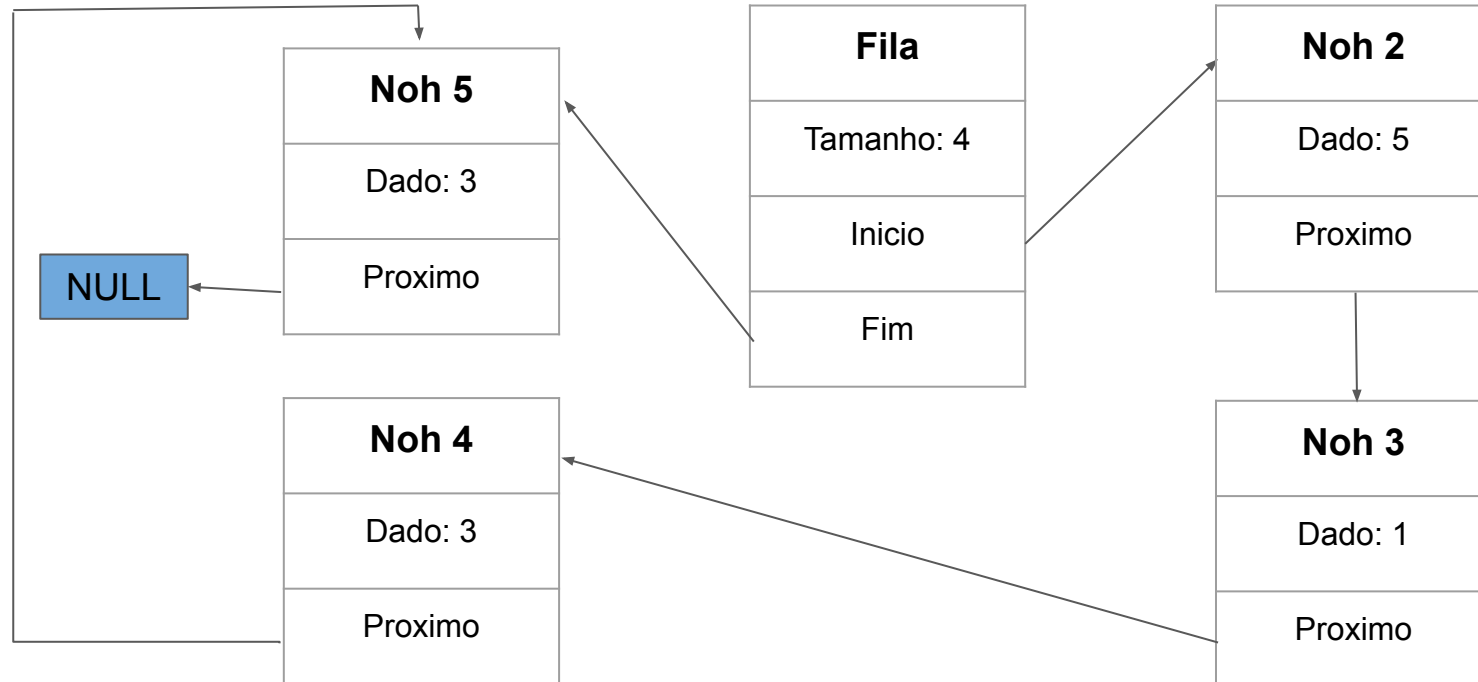
# Questão 8

- 5. Enfileirar elementos 3, 9, 10



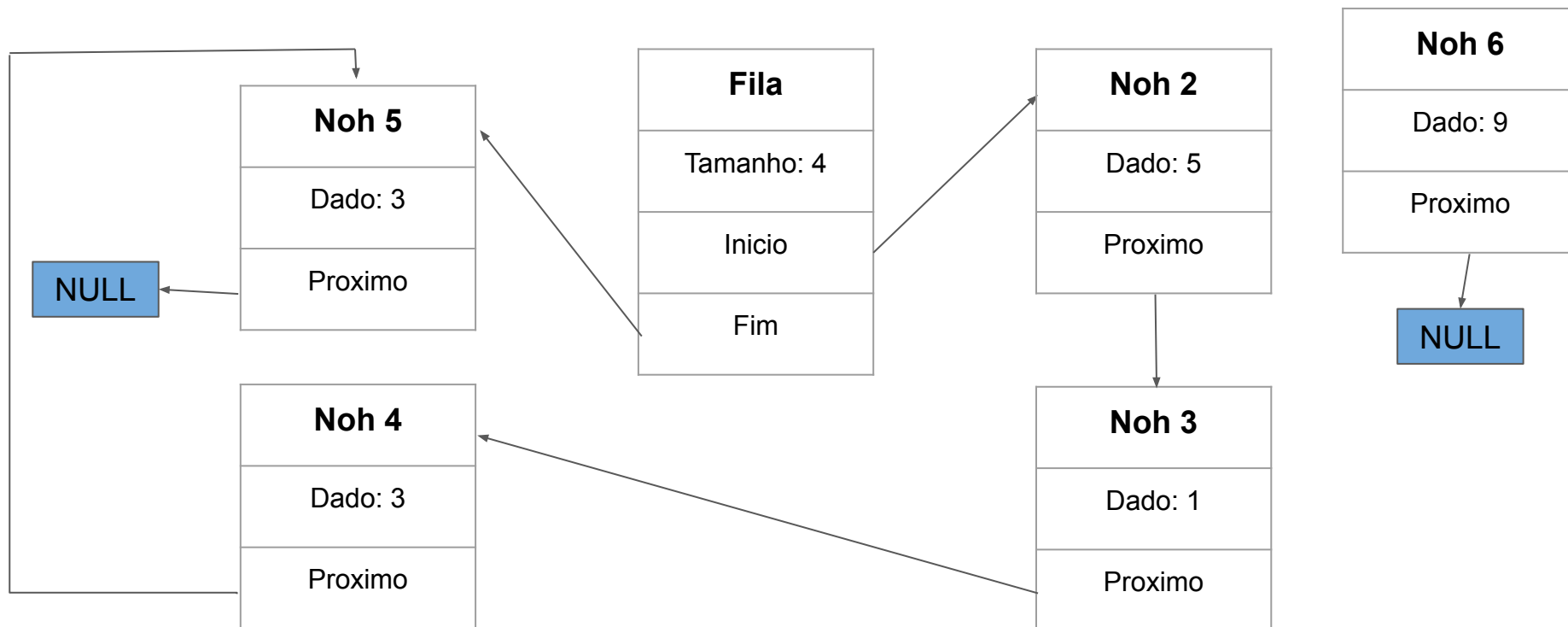
## Questão 8

- 5. Enfileirar elementos 3, 9, 10



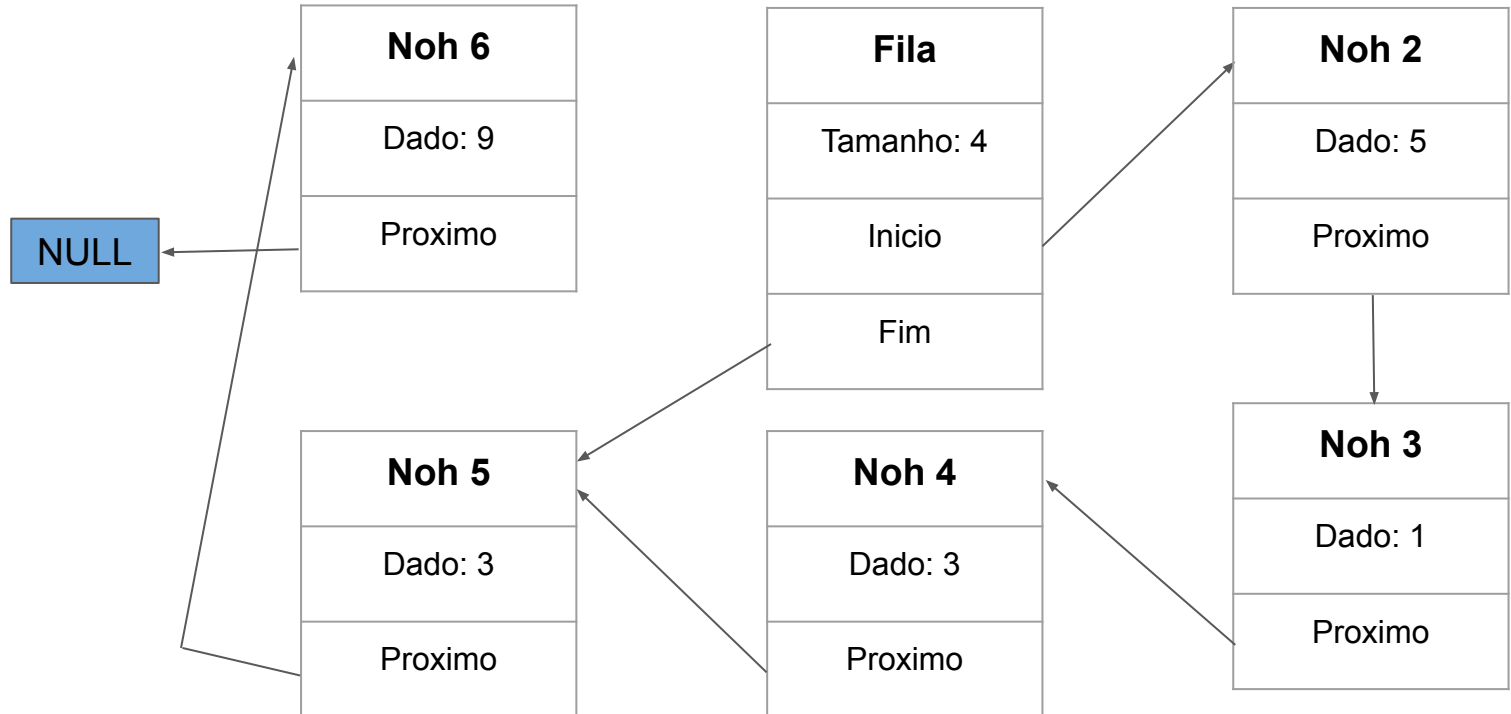
# Questão 8

- 5. Enfileirar elementos 3, 9, 10



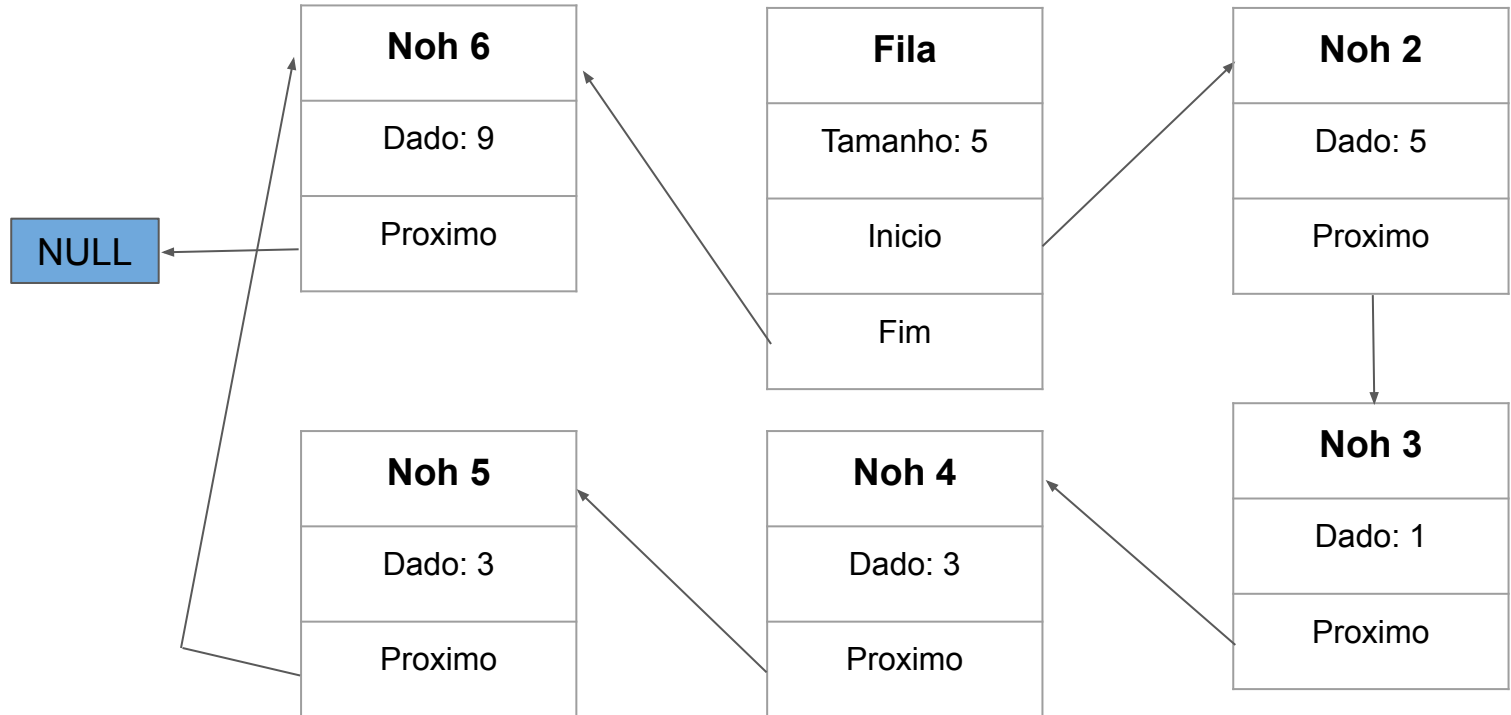
# Questão 8

- 5. Enfileirar elementos 3, 9, 10



## Questão 8

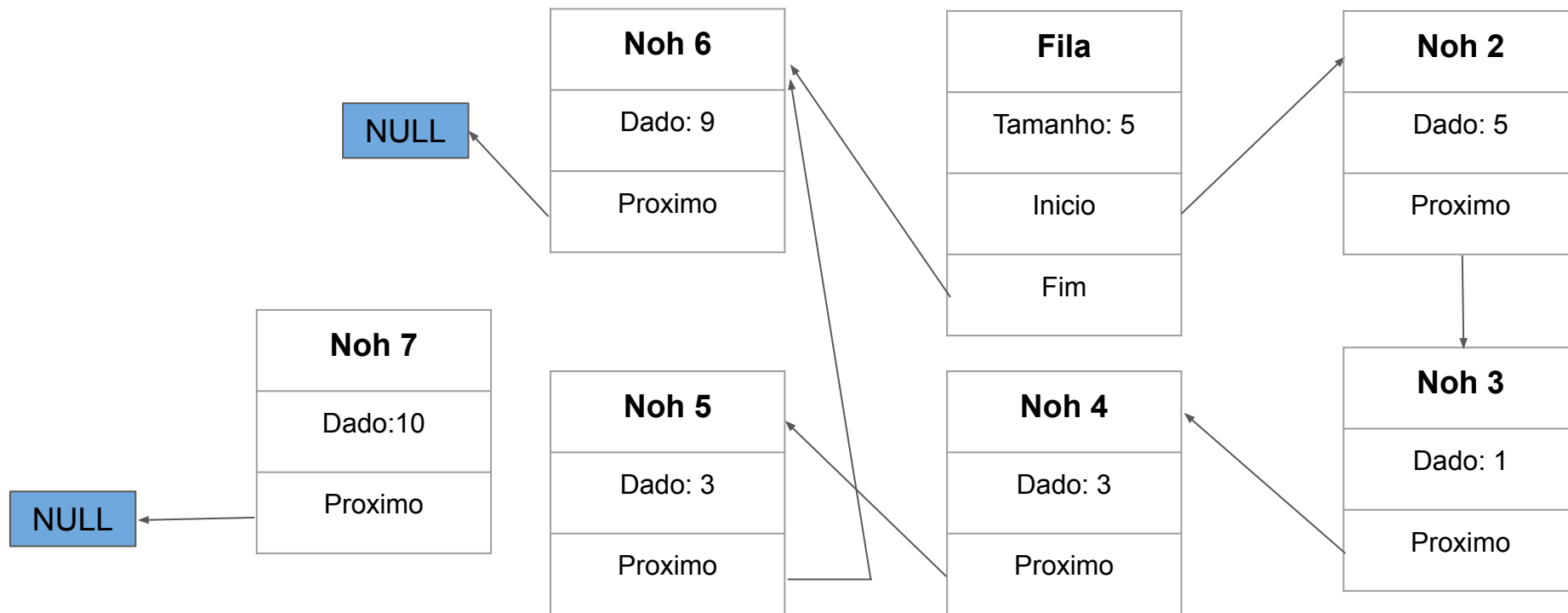
- 5. Enfileirar elementos 3, 9, 10





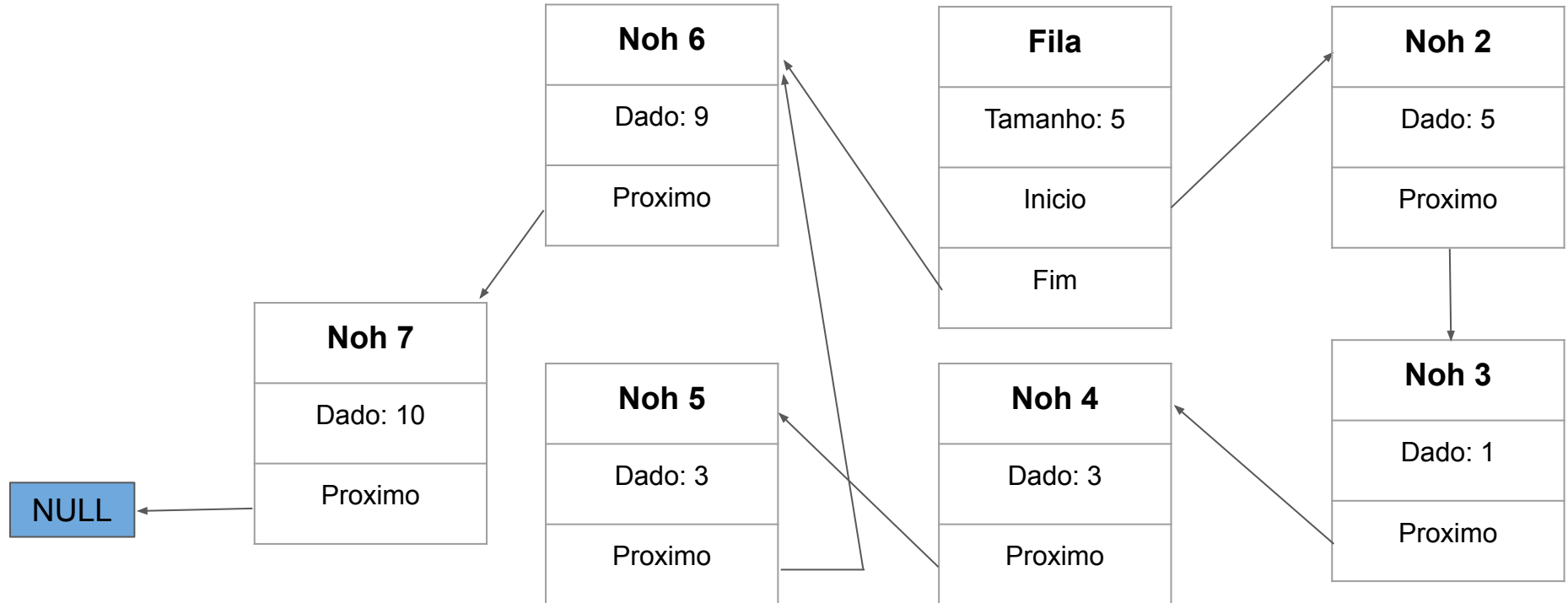
# Questão 8

- 5. Enfileirar elementos 3, 9, 10



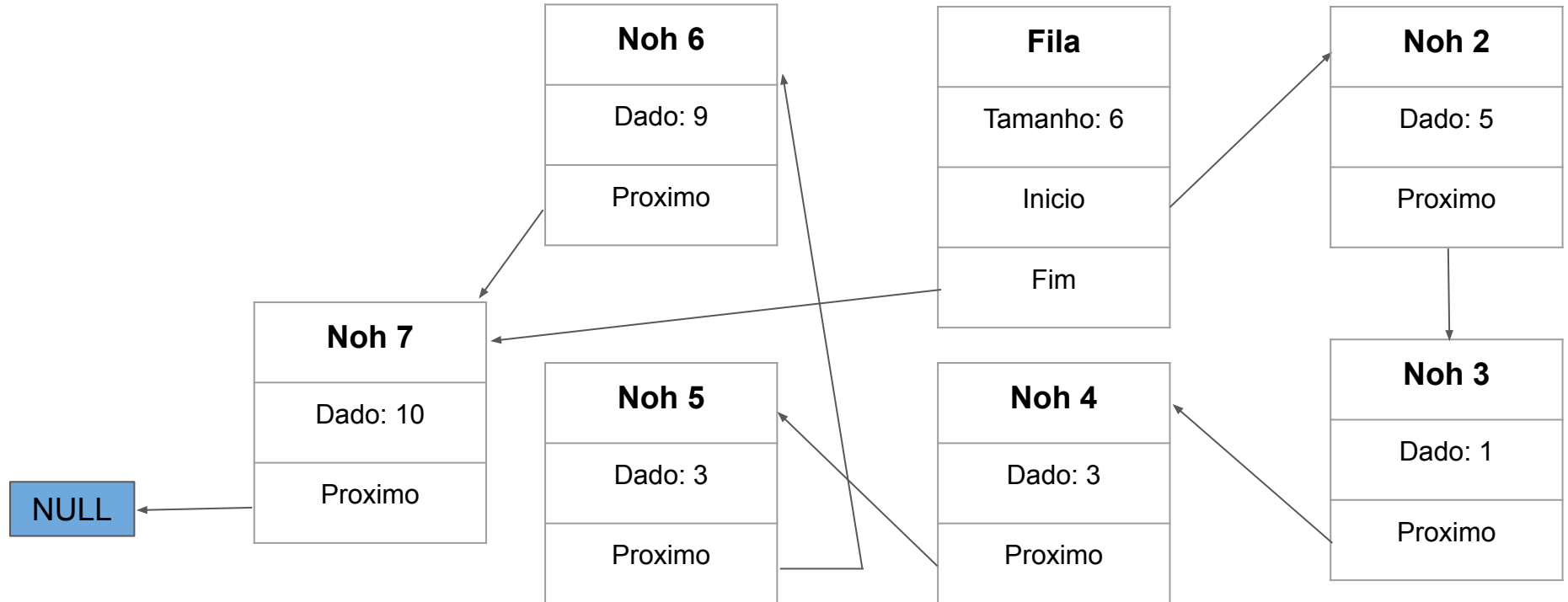
# Questão 8

- 5. Enfileirar elementos 3, 9, 10



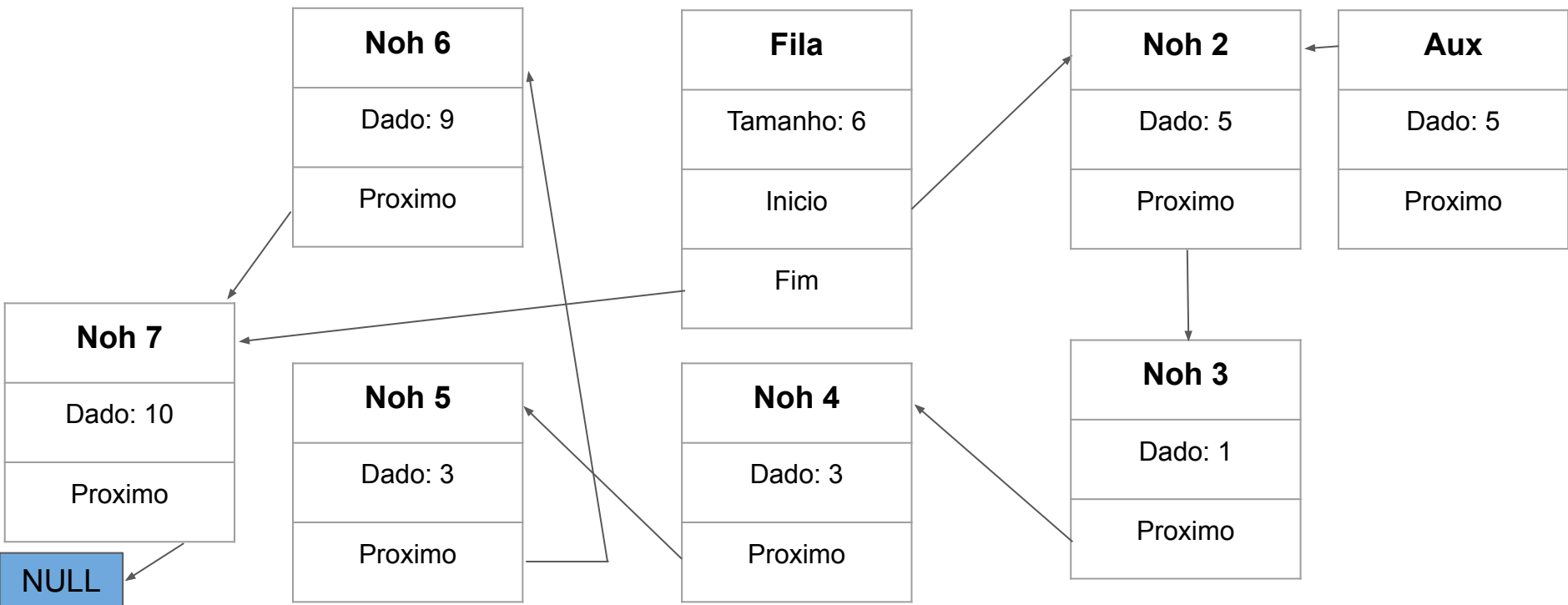
## Questão 8

- 5. Enfileirar elementos 3, 9, 10



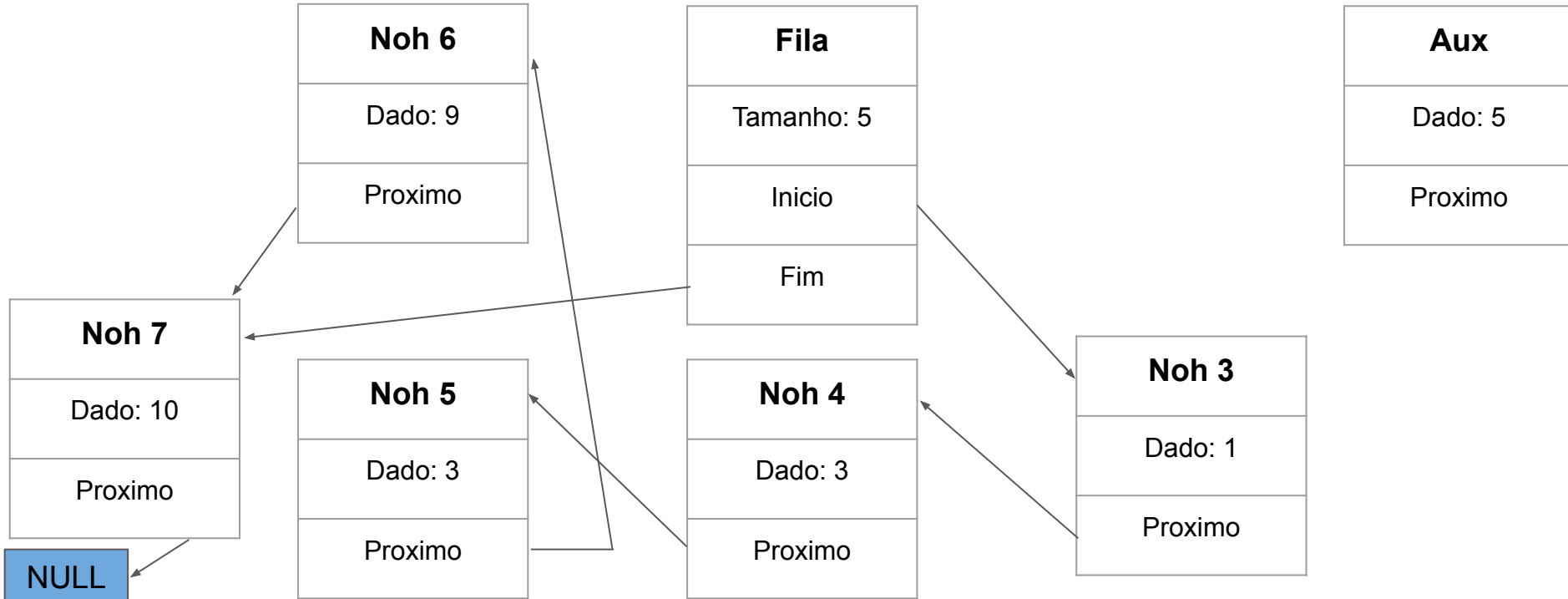
# Questão 8

- 6. Desenfileirar



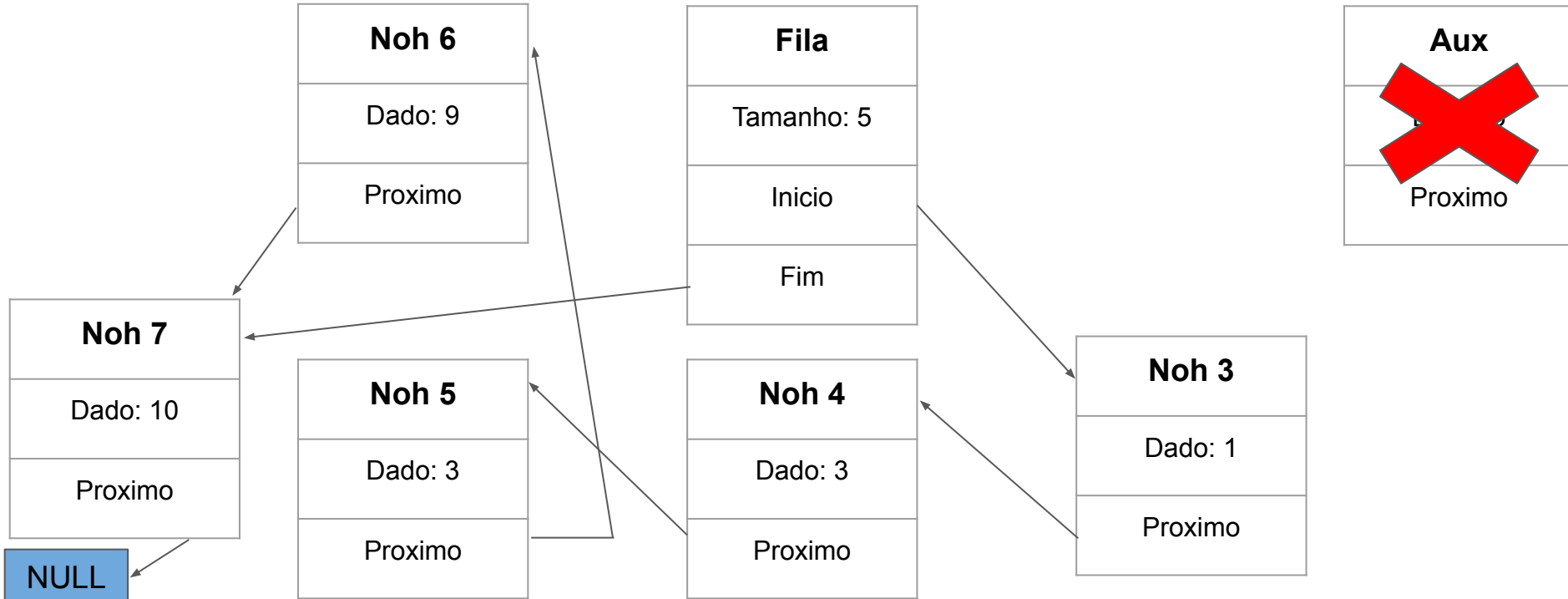
## Questão 8

- 6. Desenfileirar



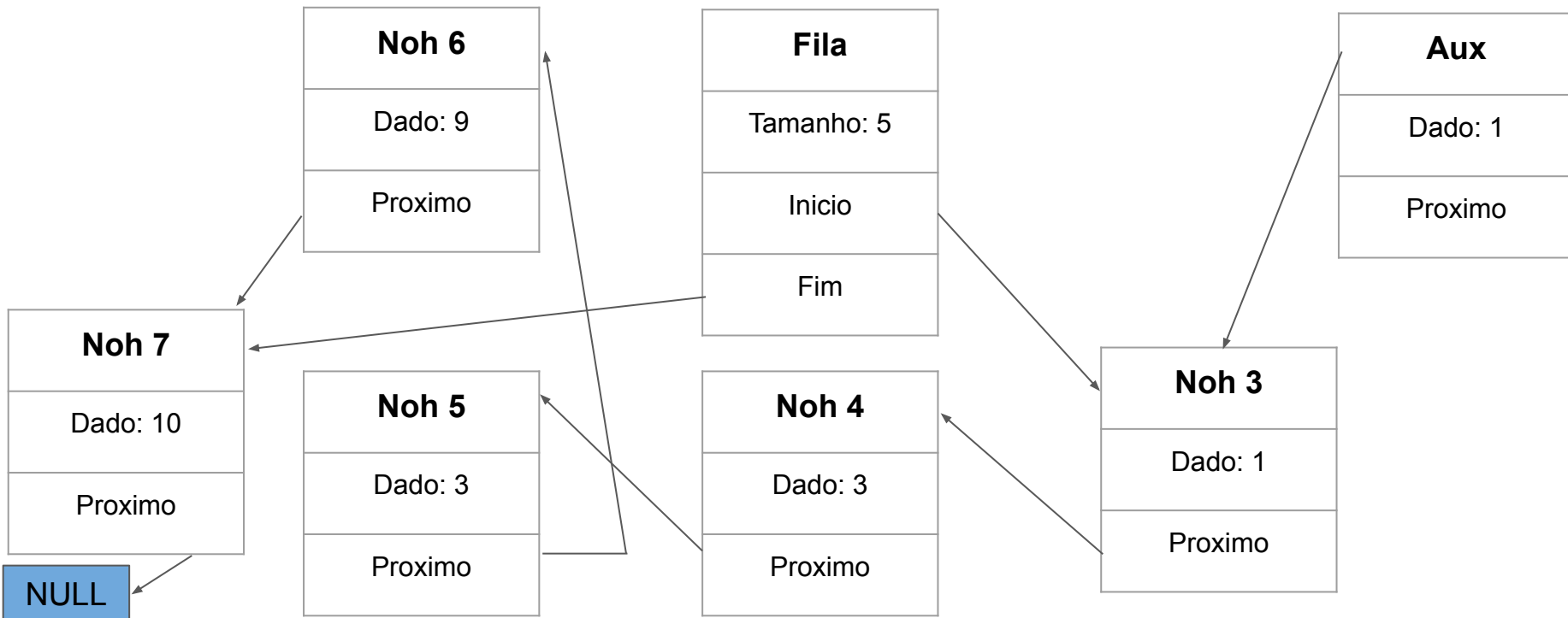
# Questão 8

- 6. Desenfileirar



# Questão 8

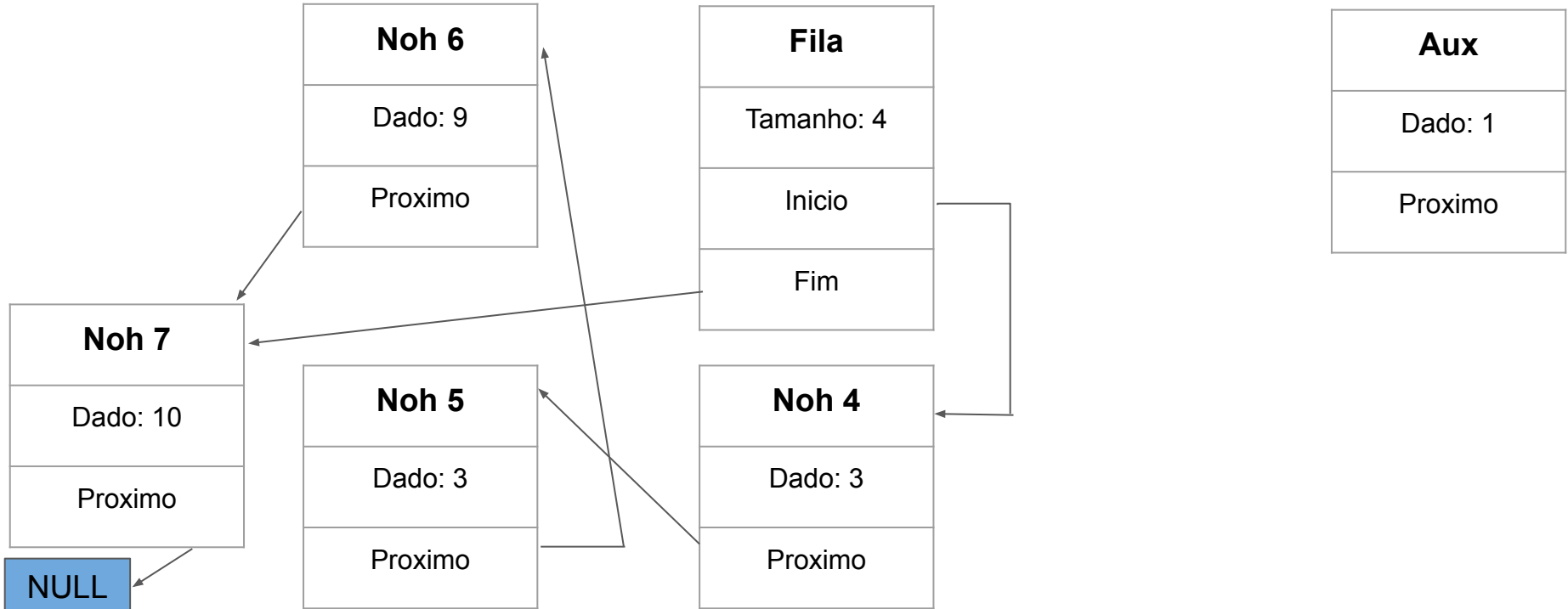
- 7. Desenfileirar



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

## Questão 8

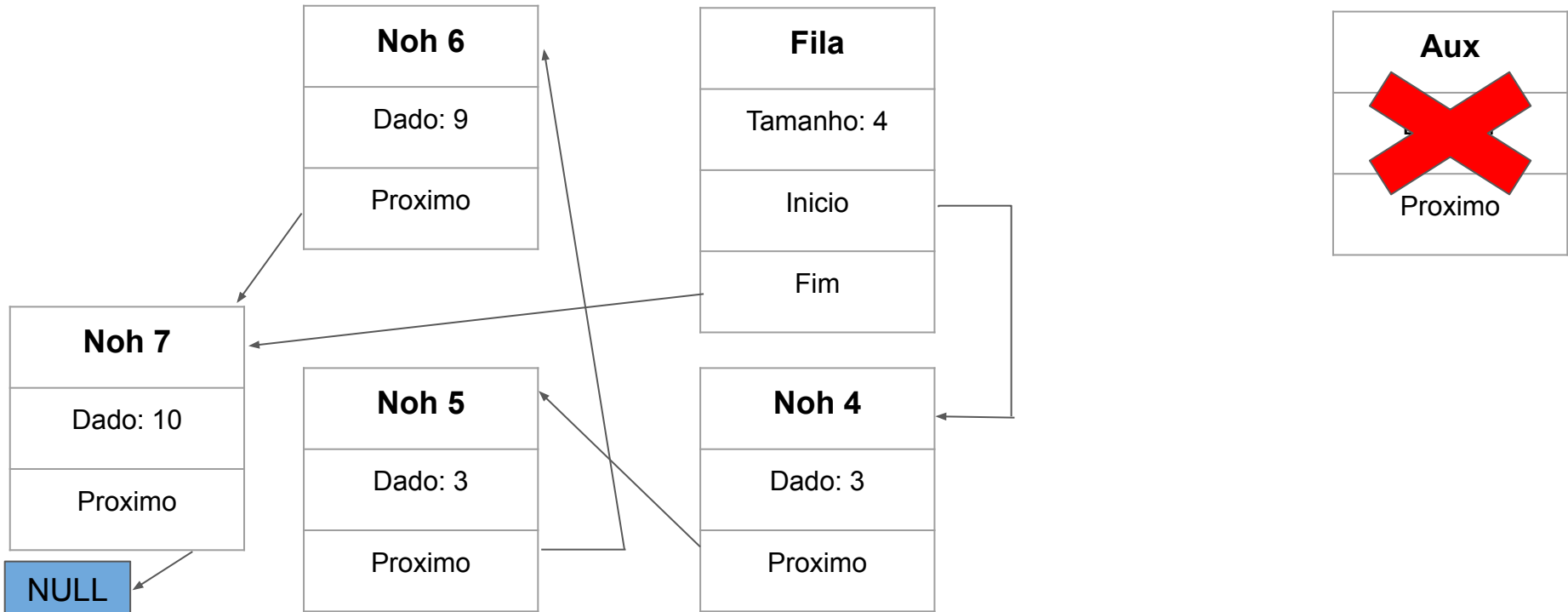
- 7. Desenfileirar





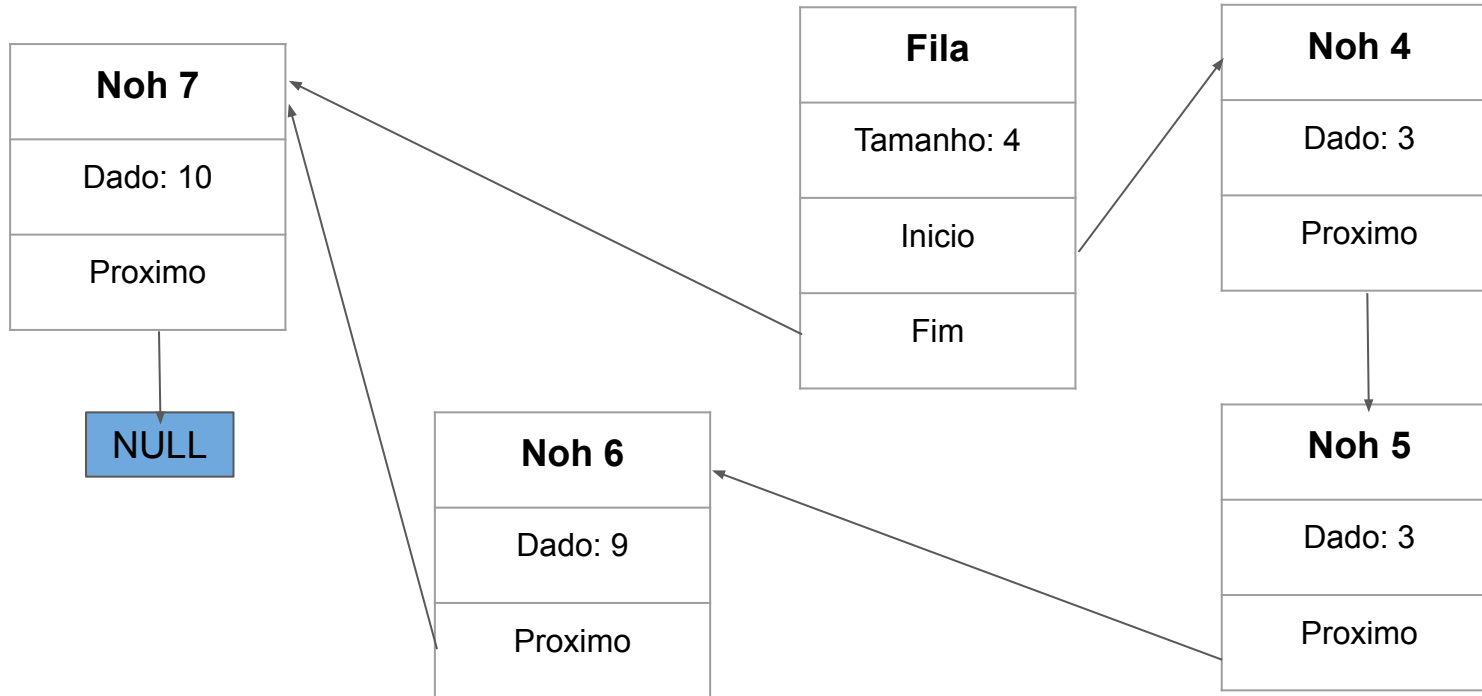
# Questão 8

- 7. Desenfileirar



# Questão 8

- Resultado Final



# Questão 10



# Questão 10

Filas Originais

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 A

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



# Questão 10

Desenfileira A

Inicio

4

5

6

7

8

9

10

Fim

A

Inicio

10

Fim

B

Inicio

4

6

Fim

Aux

Inicio

1

Fim

Resultante

## Questão 10

Encontrou igual -  
Desenfileira A e  
Aux e Enfileira  
Resultante

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

## Questão 10

## Desenfileira A

## Inicio

6

7

8

9

10

Fim

A

## Inicio

10

Fim

B

## Inicio

6

Fim

Aux

## Inicio

1

4

Fim

## Resultante

## Questão 10

Encontrou igual -  
Desenfileira A e  
Aux e Enfileira  
Resultante

## Inicio

7

8

9

10

Fim

A

Inicio

10

Fim

B

## Inicio

Fim

Aux

## Inicio

1

4

6

Fim

## Resultante

# Questão 10

Desenfileira A

Inicio

8

9

10

Fim

A

Inicio

10

Fim

B

Inicio

Fim

Aux

Inicio

1

4

6

Fim

Resultante

# Questão 10

Desenfileira A

Inicio

9

10

Inicio

10

Inicio

Inicio

1

4

6

Fim

Fim

Fim

Fim

A

B

Aux

Resultante

# Questão 10

Desenfileira A

Inicio

10

Inicio

10

Inicio

Inicio

1

4

6

Fim

Fim

Fim

Fim

A

B

Aux

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

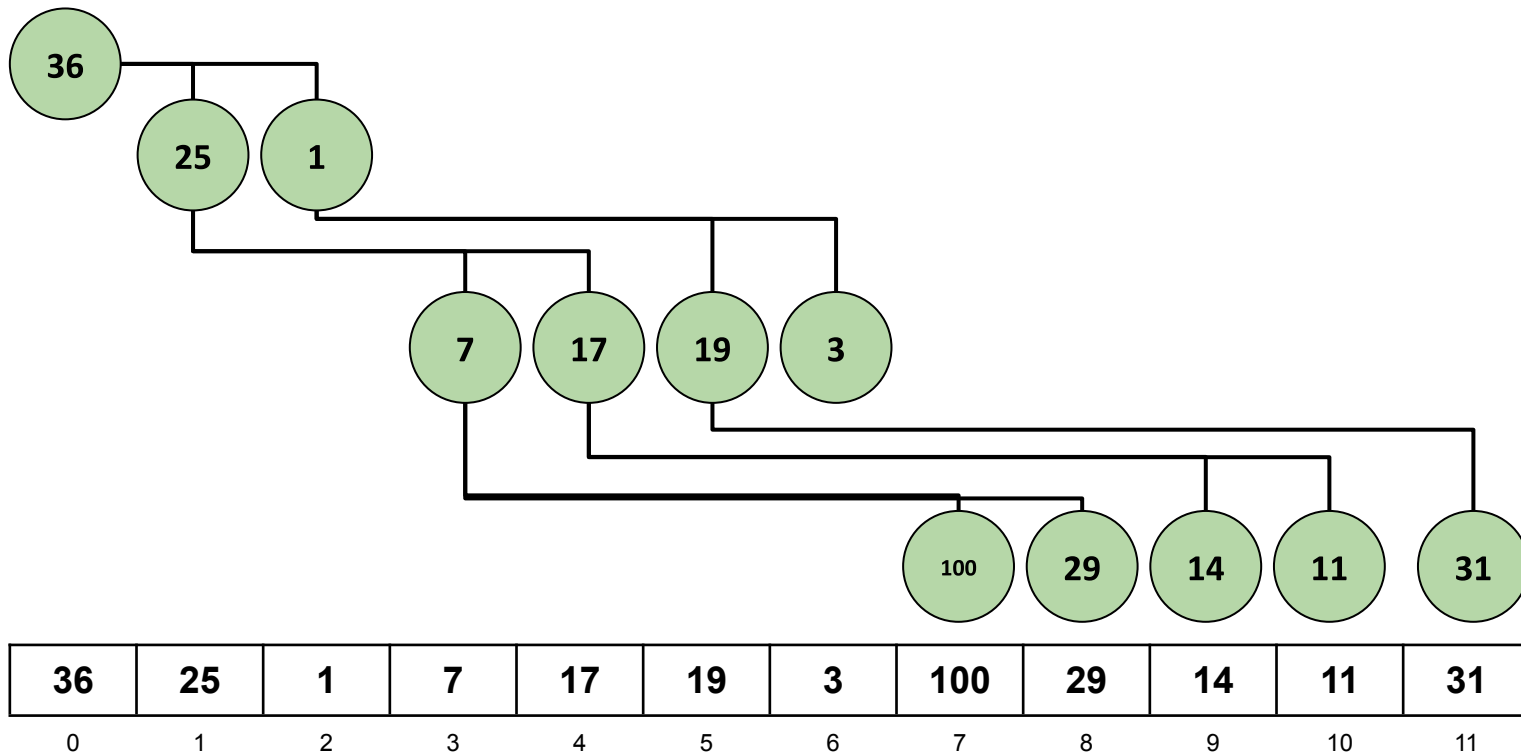
Resultante



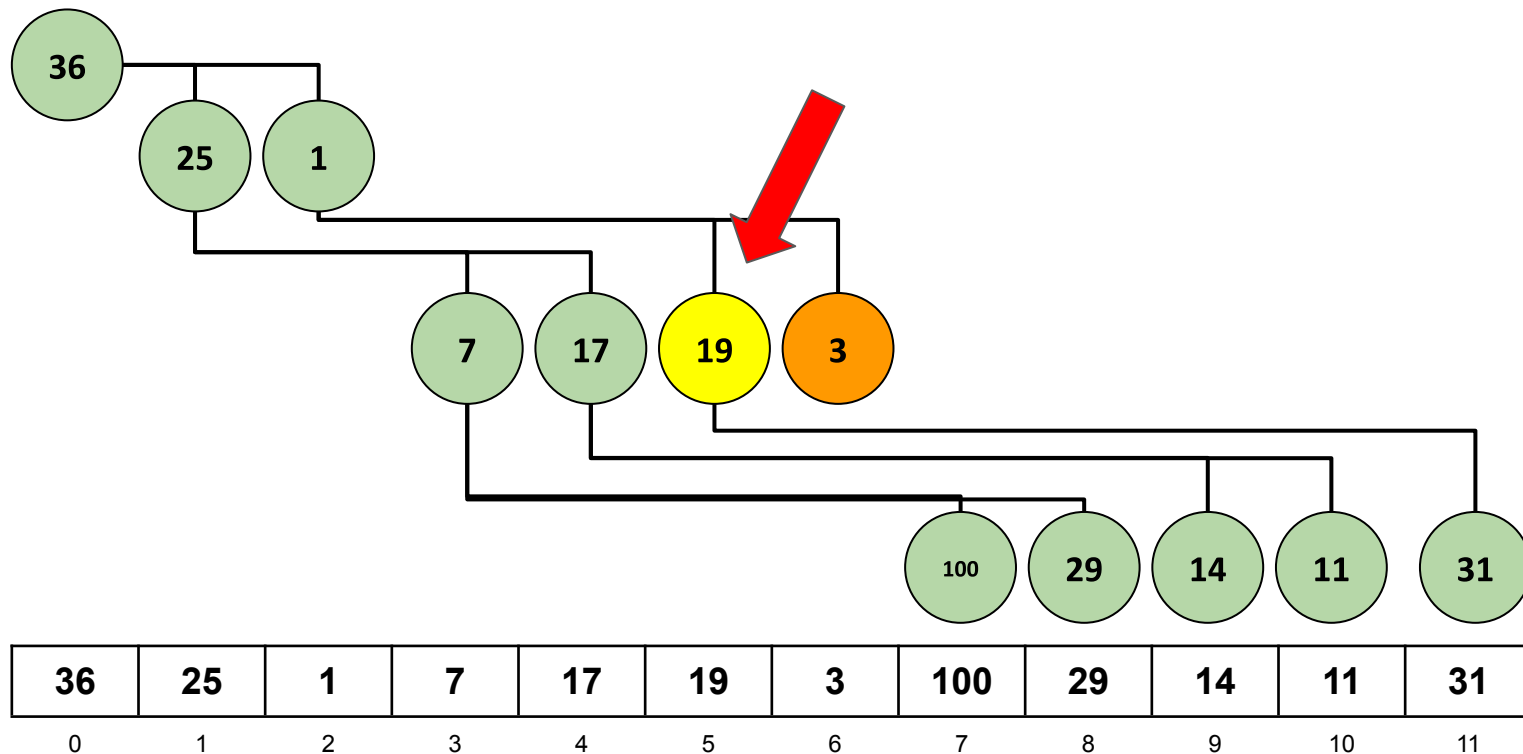
# Questão 13



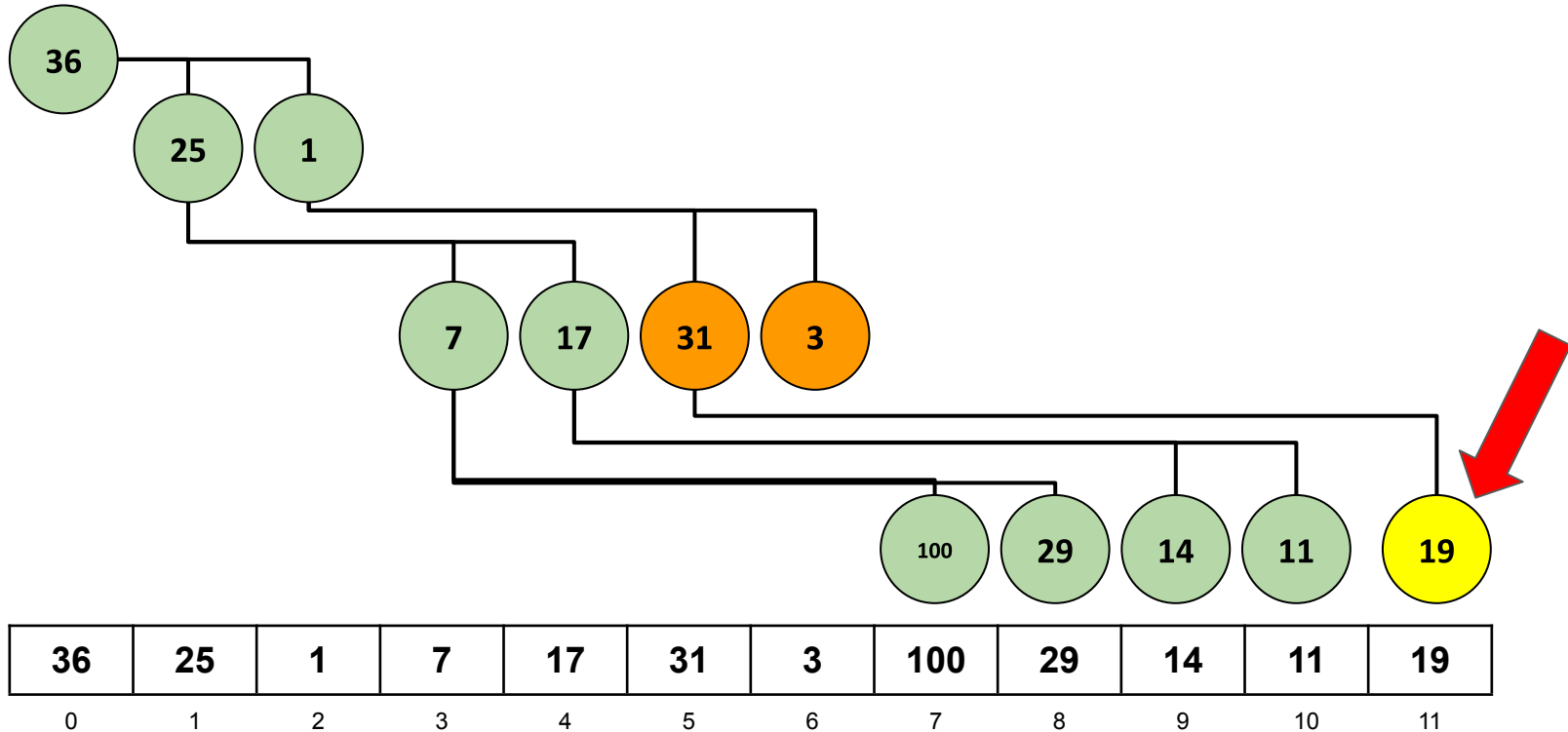
# Questão 13



# Questão 13

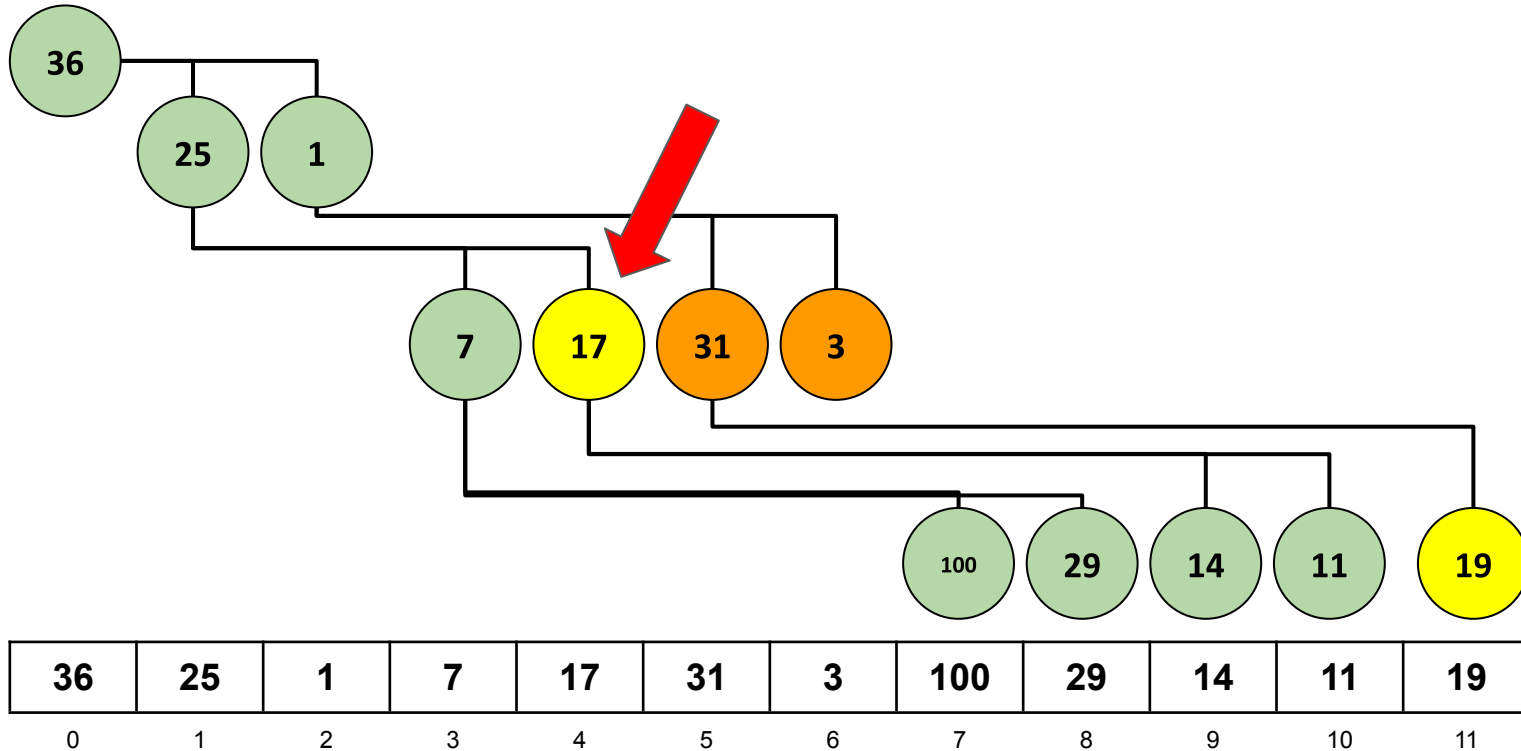


# Questão 13

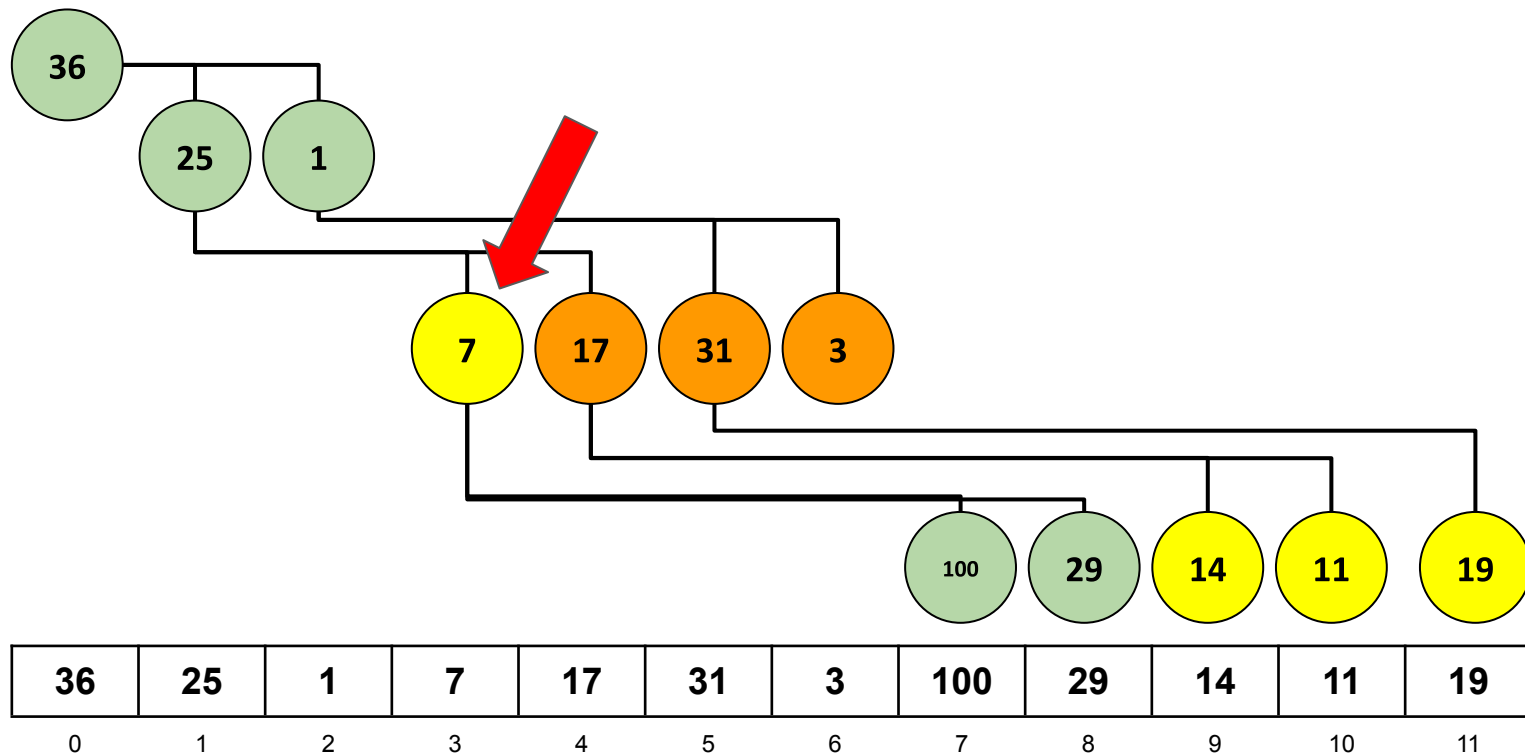


Passou para o próximo  
A troca não é necessária

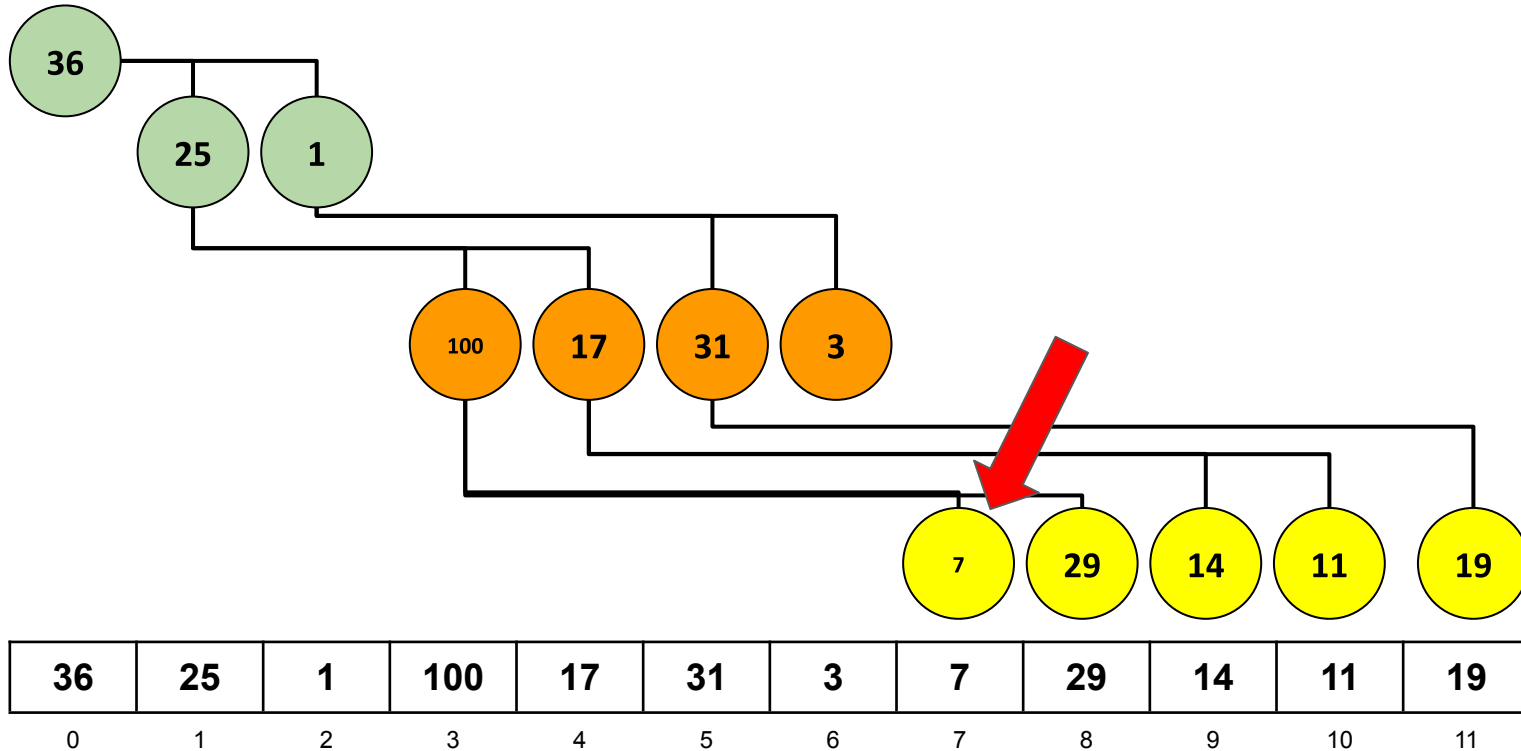
## Questão 13



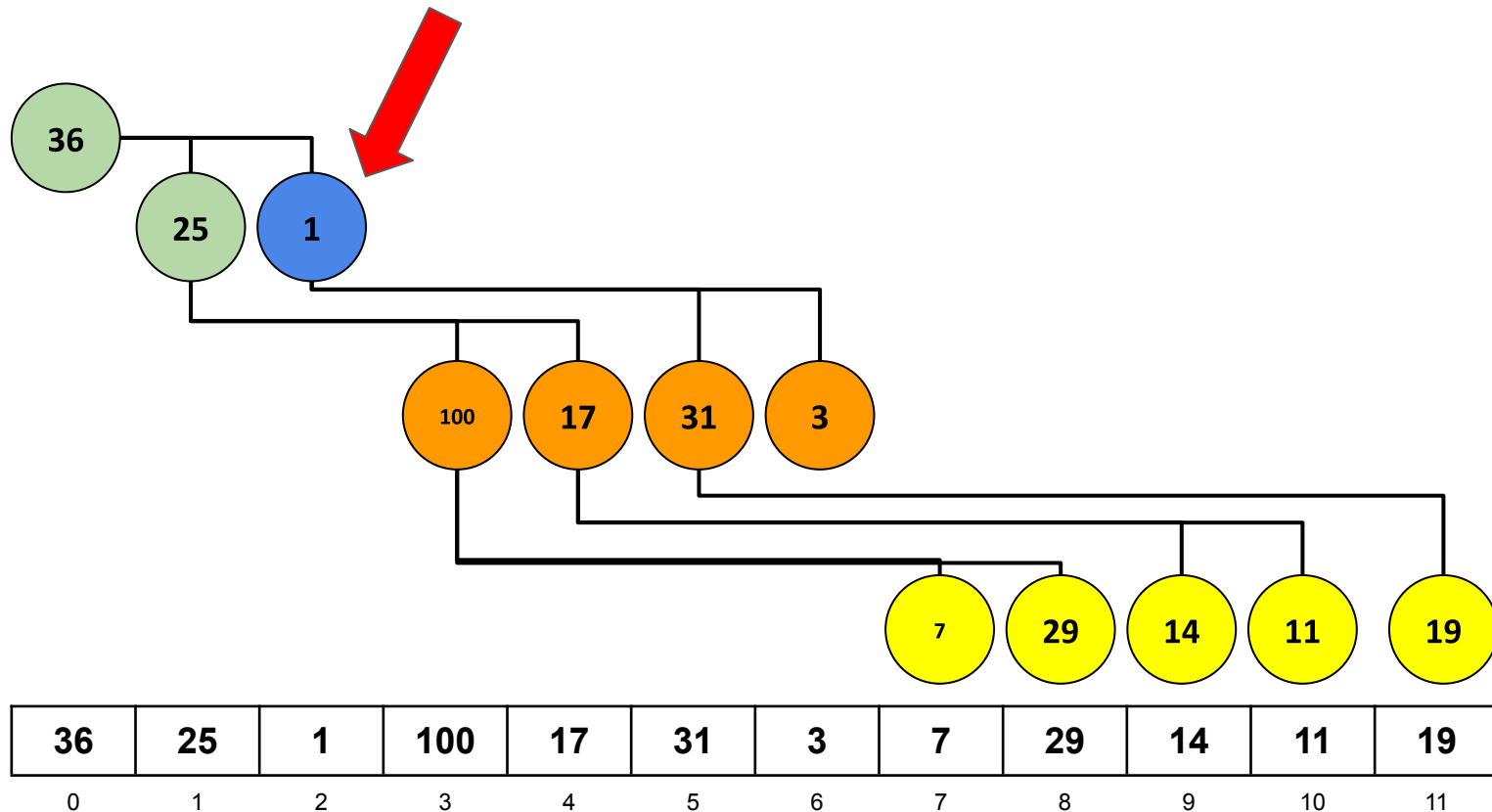
## Questão 13



## Questão 13

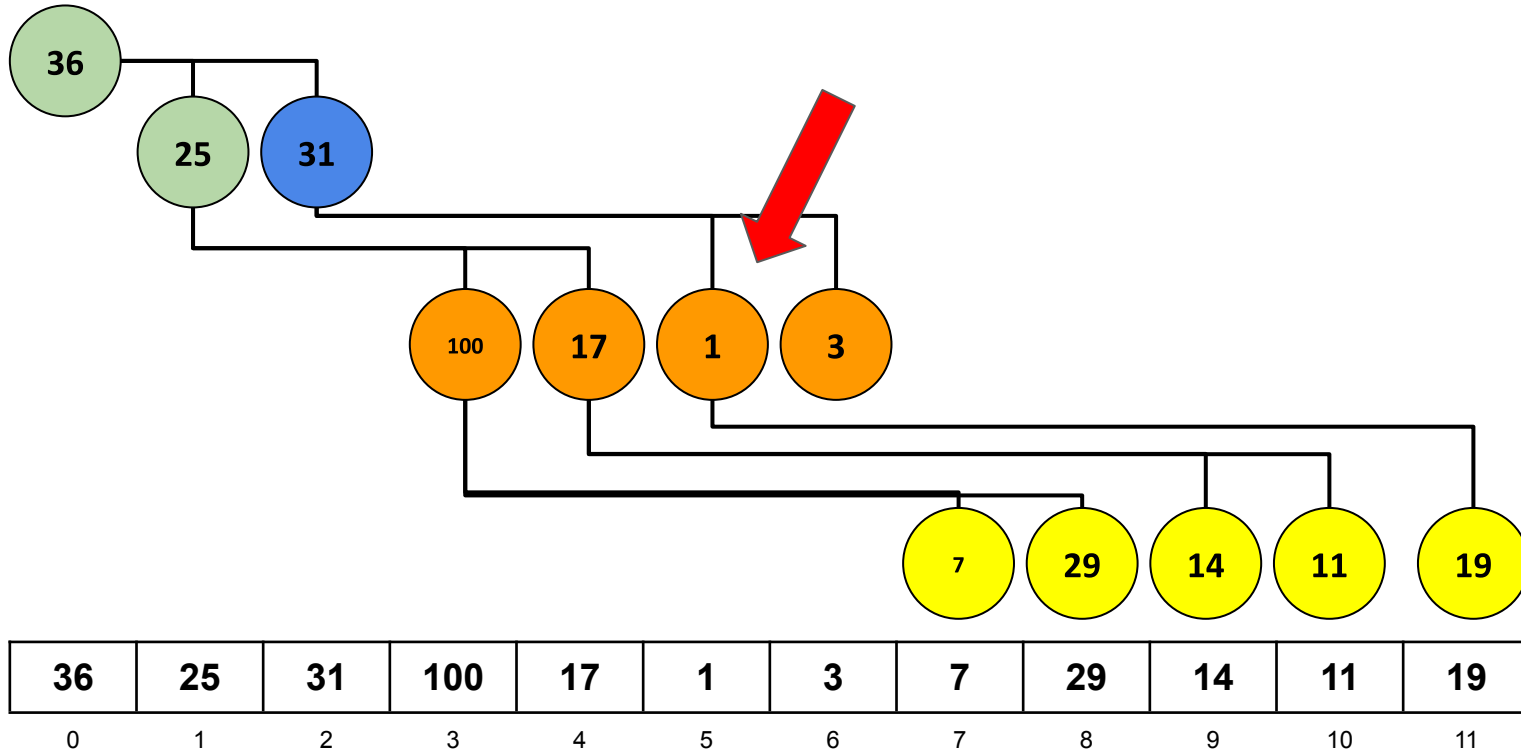


## Questão 13

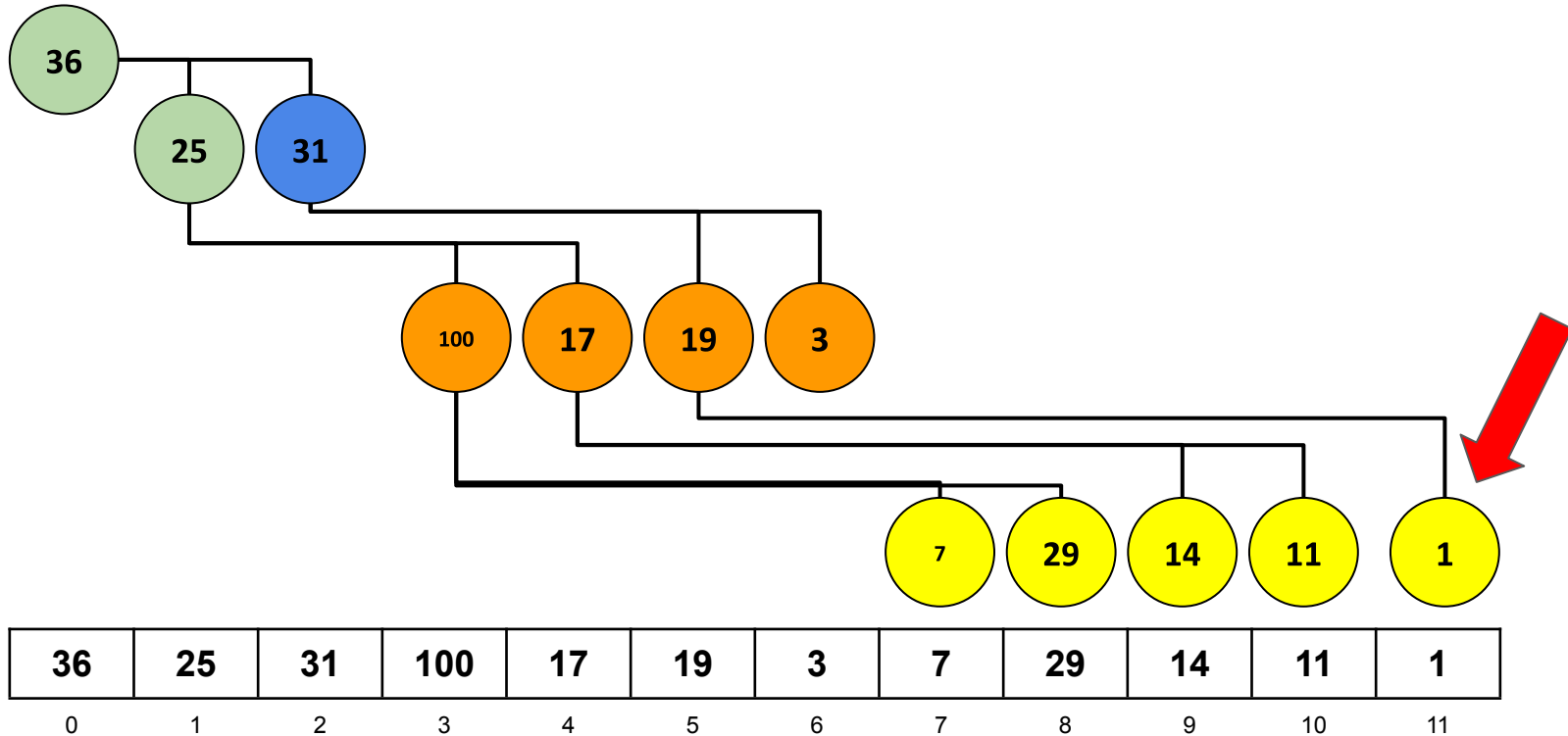




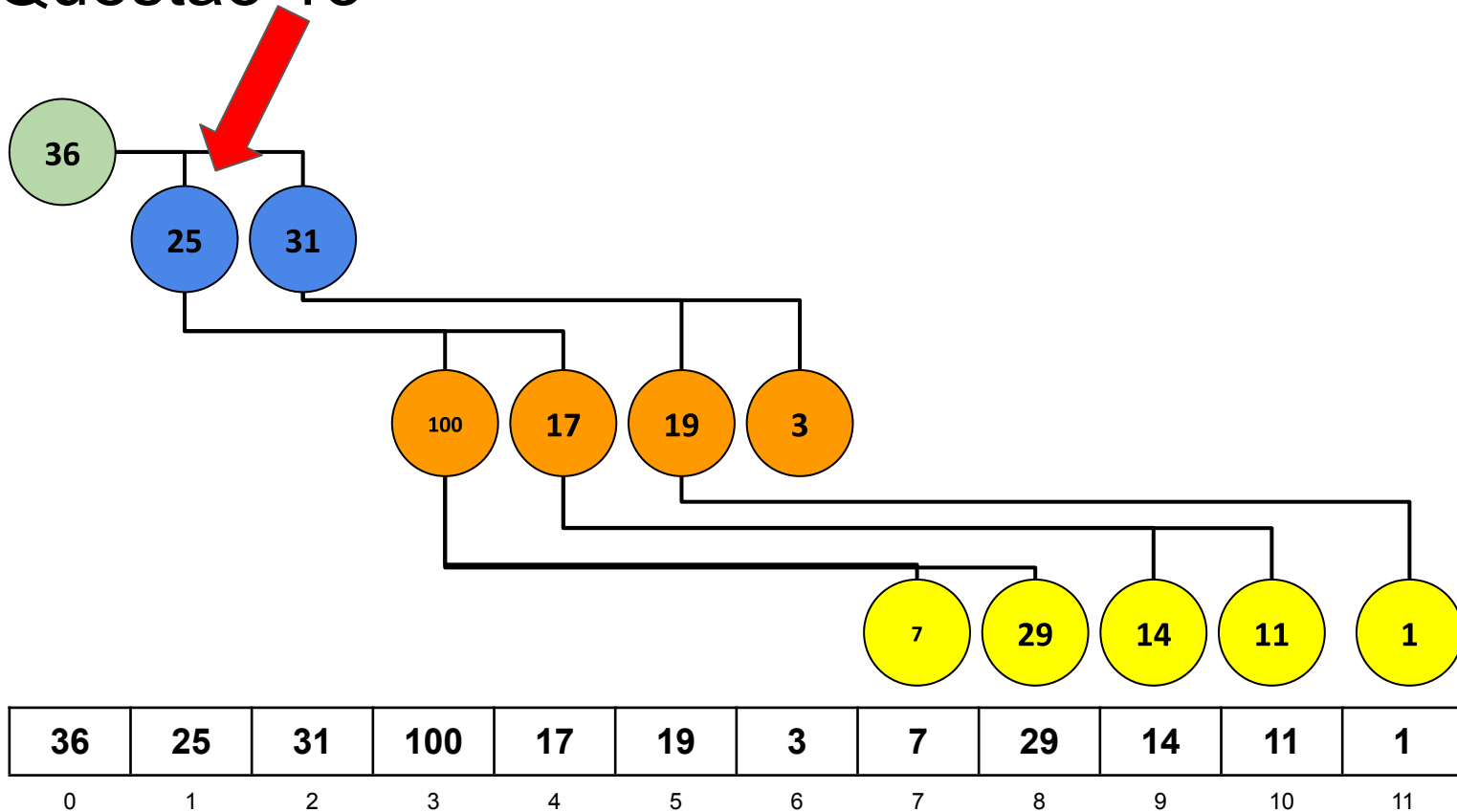
## Questão 13



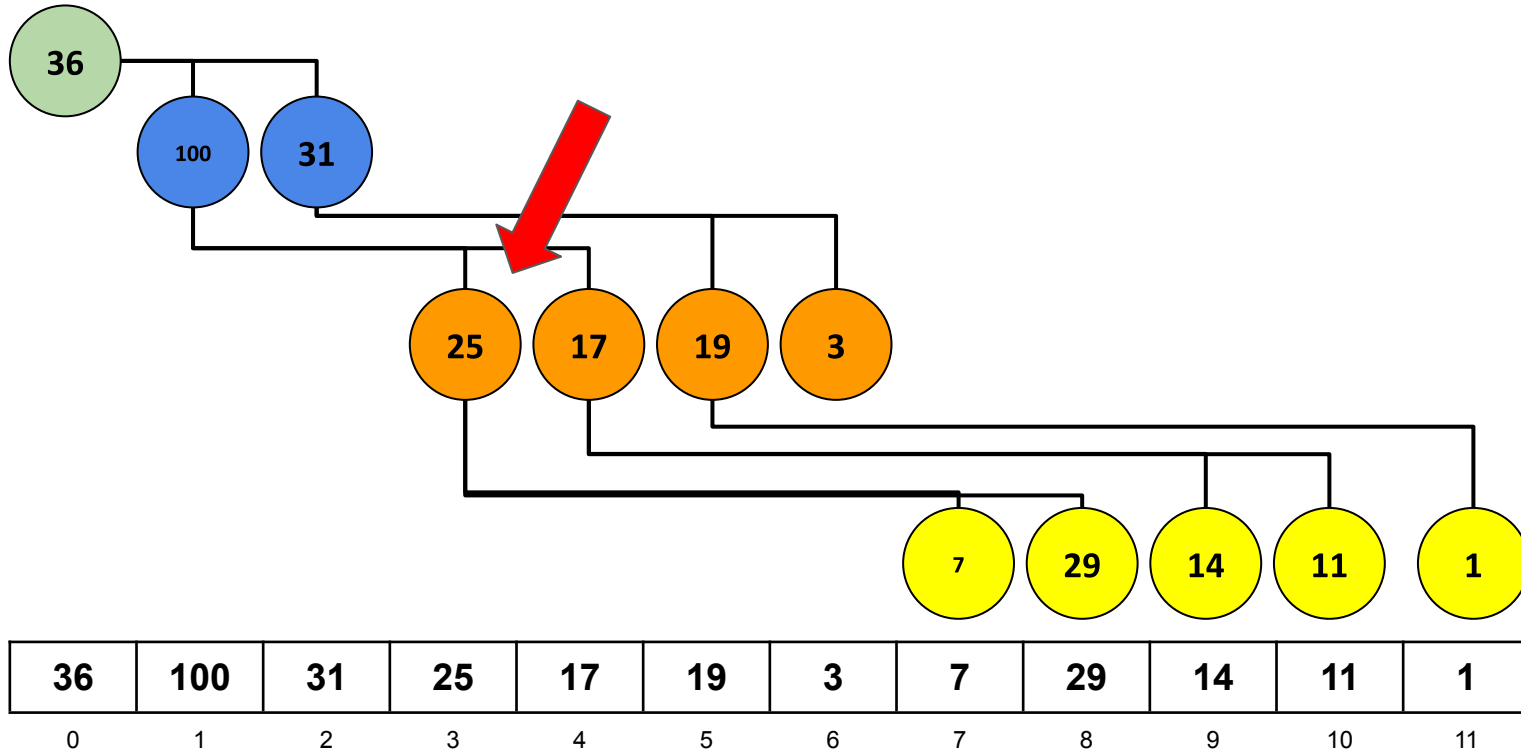
# Questão 13



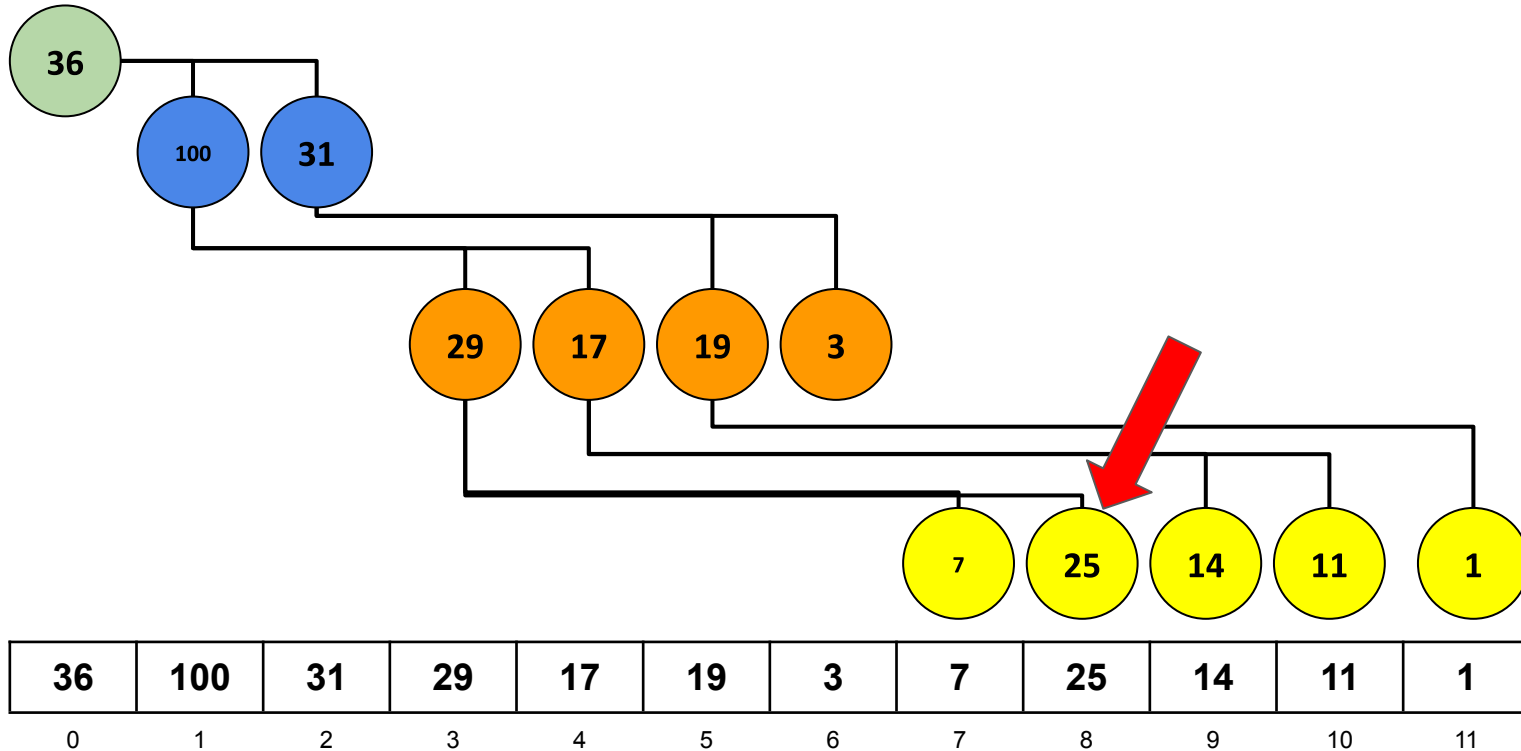
## Questão 13



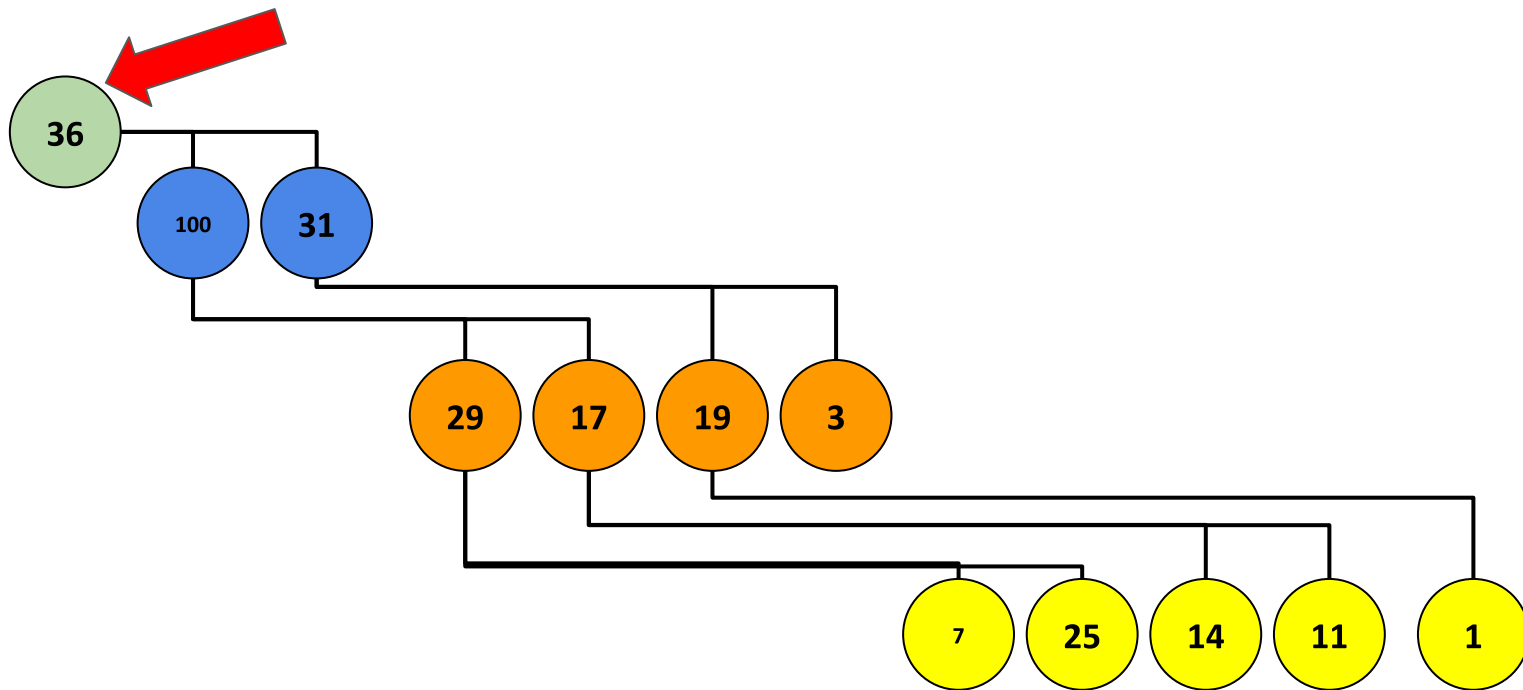
## Questão 13



# Questão 13

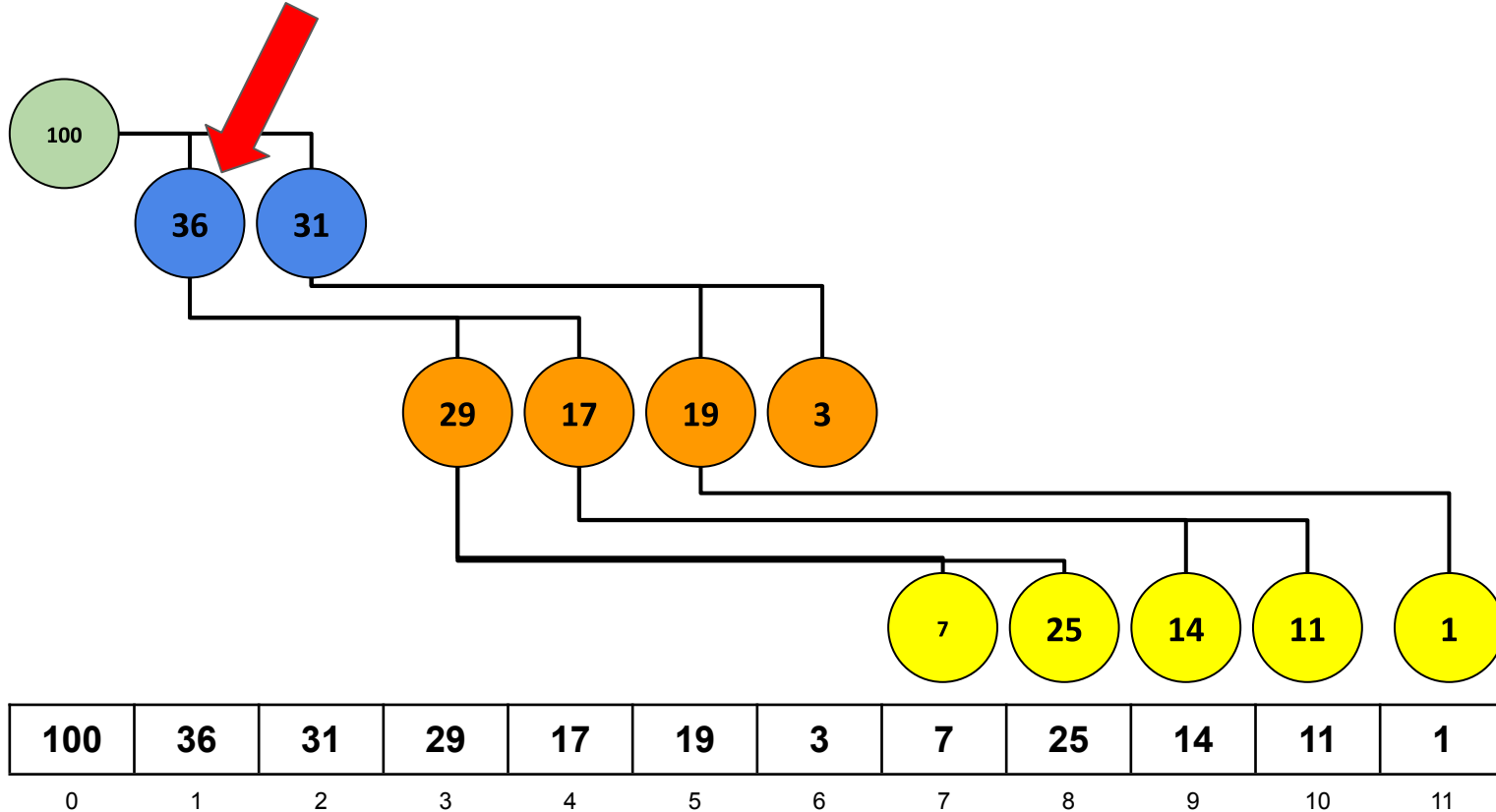


## Questão 13



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

## Questão 13



# Questão 13

