

## Aula 2 - Algoritmos e Estrutura de Dados 2 -

1-  $\{22, 35, 2, 1, 13, 7\}$ .

→ Seleção:

$i=0: 22, 35, 2, 1, 13, 7 \rightarrow \text{Troca}$   
          ↑                  ↑  
          *i*                  *i*

$i=1: 1, 35, 2, 22, 13, 7 \rightarrow \text{Troca}$   
          ↑      ↑  
          *i*      *i*

$i=2: 1, 2, 35, 22, 13, 7 \rightarrow \text{Troca}$   
          ↑                  ↑  
          *i*                  *i*

$i=3: 1, 2, 7, 22, 13, 35 \rightarrow \text{Troca}$   
          ↑      ↑  
          *i*      *i*

$i=4: 1, 2, 7, 13, 22, 35 \rightarrow \text{OK}$   
                  ↑  
                  *i*

Ordenado:  $1, 2, 7, 13, 22, 35$ .

→ Inserção:

$i=1: 22, 35, 2, 1, 13, 7 \rightarrow \text{OK}$   
          ↑  
          *i*

$i=2: 22, 35, 2, 1, 13, 7 \rightarrow \text{Troca}$   
      ↑      ↑          ↑  
      *i*      *i*          *i*

$i=3: 2, 22, 35, 1, 13, 7 \rightarrow \text{Troca}$   
      ↑                  ↑  
      *i*                  *i*

$i=4: 1, 2, 22, 35, 13, 7 \rightarrow \text{Tree}$

$i=5: 1, 2, 13, 22, 35, 7 \rightarrow \text{Traccia.}$

Ordenado: 1, 2, 7, 13, 22, 35

→ Ballo:

1<sup>o</sup> iteração:

$i=0: 22, 35, 2, 1, 13, 7 \rightarrow OK$

$\lambda = 1: 22, 35, 2, 1, 13, 7 \rightarrow \text{Προσ.}$

$i=2: 22, \hat{2}, 35, 1, 13, 7 \rightarrow \text{Троя}$

$i=3: 22, 2, 1, 35, 13, 7 \rightarrow \text{Треш}$

$i = 4: 22, 2, 1, 13, 35, 7 \rightarrow \text{Троя}$

$$i = 5: 22, 2, 1, 13, 7, 35 \rightarrow 0K$$

2ª iteração:

$i = 0 : 22, 2, 1, 13, 7, 35 \rightarrow \text{проца}$

$$\lambda = 1: 2, 22, 1, 13, 7, 35 \rightarrow \text{True}$$

$i = 2: 2, 1, 2, 2, 1, 3, 7, 35 \rightarrow \text{Troca}$

$i=3: 2, 1, 13, 22, 7, 35 \rightarrow \text{Troca}$

$$i=4: 2, 1, 13, 7, 22, 35 \rightarrow OK$$

3ª iteração:

$i=0: -2, 1, 13, 7, 22, 35 \rightarrow \text{Поло.}$

$\lambda = 1: \overset{i}{1}, \overset{i}{2}, \overset{i}{13}, 7, 22, 35 \rightarrow \text{OK}$

$$\lambda = 2: 1, 2, 13, 7, 22, 35 \rightarrow \text{Точка}$$
$$i=3: 1, 2, 7, 13, 22, 35 \rightarrow OK$$

4ª iteração

$i = 0 \div 1, 2, 7, 13, 22, 35 \rightarrow OK$

$i = 1: 1, 2, 7, 13, 22, 35 \rightarrow OK$

$$i=2: 1, 2, 7, 13, 22, 35 \rightarrow OK$$

5ª iteração.

$$\lambda = 0: 1, 2, 7, 13, 22, 35 \rightarrow 0K$$

$i = 1; 1, 2, 7, 13, 22, 35 \rightarrow OK$

Ordenado: 1, 2, 7, 13, 22, 35