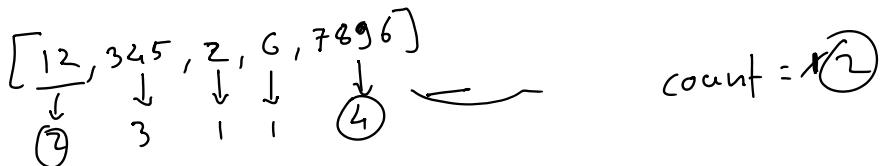
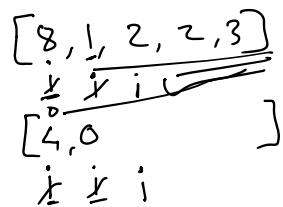


8



Sorting algorithm

- ↳ ascending order \rightarrow small \rightarrow large
- ↳ descending order \rightarrow large \rightarrow small

- ① bubble sort
- ② selection sort
- ③ insertion sort

[5, 1, 6, 2, 4, 3]

1st phase

- ① [5, 1, 6, 2, 4, 3]
- ② [1, 5, 6, 2, 4, 3]
- 3 - [1, 5, 6, 2, 4, 3]
- 4 - [1, 5, 2, 6, 4, 3]
- 5 - [1, 5, 2, 4, 6, 3]

2nd phase

- 1 [1, 5, 2, 4, 3, 6]
- 2 [1, 5, 2, 4, 3, 6]
- 3 [1, 2, 5, 4, 3, 6]
- 4 [1, 2, 4, 5, 3, 6]
- 5 [1, 2, 4, 3, 5, 6]

3rd phase

- 1 [1, 2, 3, 4, 5, 6]

4th phase

- 1 [1, 2, 3, 4, 5, 6]
- 2 [1, 2, 3, 4, 5, 6]
- 3 [1, 2, 3, 4, 5, 6]

$$\frac{n-1}{n-6}$$

5th phase

- 1 [1, 2, 3, 4, 5, 6]
- 2 [1, 2, 3, 4, 5, 6]

$$\begin{aligned} &= n-i-1 \\ &5 = 6-0-1 \\ &4 = 6-1-1 \\ &3 = 6-2-1 \\ &2 = 6-3-1 \\ &\quad \vdots \\ &\quad -6-4-1 \end{aligned}$$

5 ↳ $[1, 5, 2, 7, \underline{4}, \underline{3}, \underline{6}]$

- 3rd phase

- 1 $[1, 2, 4, 3, 5, 6]$
- 2 $[1, \underline{2}, 3, 3, 5, 6]$
- 3 $[1, 2, \underline{4}, 3, 5, 6]$
- 4 $\underline{[1, 2, 3, 4, 5, 6]}$

$[1, 2, 3, 4, 5, 6]$

$$\begin{array}{l} 3 = 6 - 3 \\ 2 = 6 - 4 \\ 1 = 6 - 5 \end{array}$$

$\left(arr[j] > arr[j+1] \right) \}$

}