

# Laboratorio I

## a.a. 2025/2026

Funzione `Array.sort` + esercitazione

# Contenuti

- La funzione `Array.sort()`
  - Ordinamento predefinito
  - Ordinamento personalizzato mediante funzione di confronto
- Esercitazione su EVO

# Sort

```
let a = [1, 3, 0, 4, 6]
```

```
a.sort()
```

```
console.log(a)
```

[LOG]: [0, 1, 3, 4, 6]

```
let v = [4, 7, -1, 10, 8, 22]
```

```
v.sort()
```

```
console.log(v)
```

[LOG]: [-1, 10, 22, 4, 7, 8]



# Documentazione di `sort()`

[Link alla documentazione](#)

The `sort()` method of Array instances sorts the elements of an array in place and returns the reference to the same array, now sorted. The default sort order is ascending, built upon converting the elements into strings, then comparing their sequences of [UTF-16 code unit values](#).

The time and space complexity of the sort cannot be guaranteed as it depends on the implementation.

To sort the elements in an array without mutating the original array, use `toSorted()`.

# Documentazione di sort() – Parte 2

## Syntax

sort()

sort(compareFn)

## Parameters

compareFn *optional*

A function that determines the order of the elements. The function is called with the following arguments:

- **a** The first element for comparison.
- **b** The second element for comparison.

It should return a number where:

- A **negative** value indicates that **a** should come **before** **b**.
- A **positive** value indicates that **a** should come **after** **b**.
- **Zero** or **NaN** indicates that **a** and **b** are considered **equal**.

# Ordinamento crescente e decrescente di interi

```
let v = [4, 7, -1, 10, 8, 22]
```

```
v.sort()
```

```
console.log(v)
```

```
v.sort((a, b) => a - b)
```

```
console.log(v)
```

```
v.sort((a, b) => b - a)
```

```
console.log(v)
```

[LOG]: [-1, 10, 22, 4, 7, 8]



[LOG]: [-1, 4, 7, 8, 10, 22]

[LOG]: [22, 10, 8, 7, 4, -1]

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