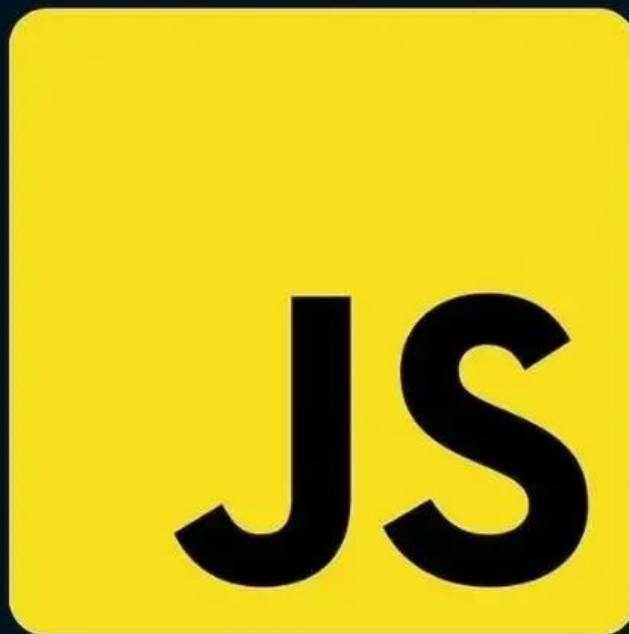




@pyplane\_code

# Sorting Arrays in Javascript



# Introduction

In this tutorial we will cover sorting arrays with:

- strings
- numbers
- strings with numbers
- strings with long numbers
- objects



# #1 Strings

By default the `sort` method organizes elements alphabetically (from A-Z).

Example:



```
const names = ['James', 'Anna', 'Adam', 'Colin', 'Rita']

const sortedNames = names.sort()

console.log(sortedNames)
// [ 'Adam', 'Anna', 'Colin', 'James', 'Rita' ]

const namesReversed = sortedNames.reverse()

console.log(namesReversed)
// [ 'Rita', 'James', 'Colin', 'Anna', 'Adam' ]
```

## #2 Numbers

If we want use the sort method with numerical values - we need to pass to it a callback function which will handle comparison of values

Example:



```
const numbers = [10, 20, 5, 40, 100, 1]

const sortedNumbers = numbers.sort((a, b) => a - b)

console.log(sortedNumbers)
// [ 1, 5, 10, 20, 40, 100 ]
```

## #3 Strings with numbers

If we have a string with a injected number (<10) for example at the end - we can slice it and turn into a number in order to sort all the array elements

Example:

```
const items = ['Item 3', 'Item 2', 'Item 5', 'Item 1', 'Item 4']

const sorted = items.sort((a, b) => {
  |   return +a.slice(-1) - +b.slice(-1)
})

console.log(sorted)
// [ 'Item 1', 'Item 2', 'Item 3', 'Item 4', 'Item 5' ]
```



## #4 Strings with long numbers

If the numbers are bigger than 9 - we can use regular expressions to find them and sort the elements of the array based on their values

Example:



```
const r = /\d+/;
const itemsLong = [
  'Item 99',
  'Item 1001',
  'Item 5',
  'Item 30',
  'Item 465'
]

const sorted = itemsLong.sort((a, b) => {
  return a.match(r) - b.match(r)
})

console.log(sorted)
// [ 'Item 5', 'Item 30', 'Item 99', 'Item 465', 'Item 1001' ]
```

## #5 Objects

Let's use the knowledge from previous slides to sort an array of objects based on a id values.

```
const objs = [  
  { id: 7, name: 'John' },  
  { id: 10, name: 'Grace' },  
  { id: 4, name: 'Kim' },  
  { id: 3, name: 'Jane' },  
  { id: 9, name: 'Julie' },  
]  
  
const sorted = objs.sort((a, b) => {  
  return a.id - b.id  
})  
  
console.log(sorted)  
/*  
  { id: 3, name: 'Jane' },  
  { id: 4, name: 'Kim' },  
  { id: 7, name: 'John' },  
  { id: 9, name: 'Julie' },  
  { id: 10, name: 'Grace' }  
*/
```

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