

# Array functions exercises

The following exercises are about to introduce you some new array functions. There's an MDN documentation link for every exercise, so you can try to understand and use a new function only by it's documentation. But if you feel to be blocked, you can always check the solutions in another PDF.

## 1. Sorting

Create a function which expects an array of strings as parameter then sort the array in ascending order by the length of the strings.

**Example:** if the input is `['apple', 'cat', 'cucumber']` then the output should be `['cat', 'apple', 'cucumber']`

**Hint:** [sort](#)

## 2. Transformation

Create a function which expects an array of numbers as parameter then assumes that these input values were temperatures in °C and then convert them to °F. At the end return the array of number in °F.

**Example:** if the input is `[20, 24]` then the output should be `[68, 75.2]`

**Hint:**

- °C - °F conversion:  $(0^{\circ}\text{C} \times 9/5) + 32 = 32^{\circ}\text{F}$
- [map](#)

## 3. Find minimum and maximum value

Create a function which expects an array of numbers and a boolean flag as parameters then returns the highest or the lowest (based on the boolean flag) value from the array.

**Example:** if the input is `[1, 2, 3, 3]`, `true` then the output should be `3`

**Hint:**

- [Math.min](#)
- [Math.max](#)
- [spread operator](#)

## 4. Find

Create a function which expects an array of objects as parameter then finds the object in the array where the object's age key's value is 5 and then returns this whole object.

**Example:** if the input is `[{name: 'John', age: 12}, {name: 'Sara', age: 5}, {name: 'Ben', age: 5}]` then the output should be `{name: 'Sara', age: 5}`

**Hint:**

- [find](#)

## 5. Delete

Create a function which expects an array and a number (index) as parameters then delete the item at the given index.

**Example:** if the input is ['apple', 'cat', 'cucumber'], 1 then the output should be ['apple', 'cucumber']

**Hint:**

- [splice](#)

## 6. Complex exercise

Create a function which expects an array of numbers as parameter then do the following operations on this array:

- Multiply every item by 2
- Finds the lowest item in the array and prints it to the console
- Calculate the sum of the values in the array and prints it to the console

**Example:** if the input is [2, 5, 8] then the output should be:

- [4, 10, 16]
- 4
- 30