The JavaScript Array



a) Create the two arrays below, spelled <u>exactly</u> as they are given. This will form the start for all the following questions.

```
var boys = ["Peter", "lars", "Ole"];
var girls = ["Janne", "hanne", "Sanne"];
> var boys = ["Peter", "lars", "Ole"];
var girls = ["Janne", "hanne", "Sanne"];
```

b) Create a new array called all, which should be a concatenation of the two arrays given above, starting with the boys and ending with the girls.

c) The array type has a cool method to <u>reduce</u> an array into a single string <u>join()</u>
Create a comma separated string containing all the names from the all-array, separated by commas.

```
> var reduced = all.join(",");
< undefined
> console.log(reduced);
Peter,lars,Ole,Janne,hanne,Sanne
```

Create a hyphen (-) separated string containing all the names from the all-array, separated by hyphens.

```
> var hyphen = all.join("-");
< undefined
> console.log(hyphen);
Peter-lars-Ole-Janne-hanne-Sanne
```

d) Add the names Lone and Gitte to the end of the array

```
> var end = all.push("Lone", "Gitte");
< undefined
> console.log(end);
8
```

e) Add the names Hans and Kurt to the start of the array

```
> var start = all.unshift("Hans","Kurt");
< undefined
> console.log(start);
10
```

- f) Remove the first name in the array (Hans)
- g) Remove the last name from the array (Gitte)

```
> all.shift();
< "Hans"
> all.pop();
< "Gitte"</pre>
```

h) Remove Ole and Janne from the middle of the array

k) The default sort algorithm doesn't handle the situation where the name can be either capitalized or not. Write a user-defined sort method to fix this problem.

Array methods with callbacks (there are many)

I) Convert all the names in the array to uppercase.

m) Create a new array containing all the names that start with either "I" or "L" (hint: use the filter function with a sufficient callback).

```
> const startsW = upper.filter((name) => name.startsWith("L"));
console.log(startsW);

> (2) ["LARS", "LONE"]
```