

## 35. Built-in array methods.

Filename: array\_methods.js

### Pre-reading:

Read this article to learn more about sorting an array of strings.

- [Using JavaScript's sort Method for Sorting Arrays of Strings](#)

### Exercise:

In this exercise, you will manipulate a list of the entire English alphabet.

```
alphabet = ["O", "U", "P", "H", "Q", "T", "Z", "Y", "E", "S",  
"F", "C", "R", "V", "J", "L", "X", "A", "M", "G", "D", "I",  
"B", "W", "K", "N"]
```

- Use the built-in methods in arrays to sort the list.
- You should then print the first character in the list, but it should be a lowercase letter. ( Hint: toLowerCase() )

### Solution:

```
var alphabet = ["O", "U", "P", "H", "Q", "T", "Z", "Y", "E", "S",  
"F", "C", "R", "V", "J", "L", "X", "A", "M", "G", "D", "I", "B",  
"W", "K", "N"];  
  
alphabet.sort();  
console.log(alphabet[0].toLowerCase());
```

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## 36. Smallest and largest.

Filename: sm\_lg.js

### Pre-reading:

Read this article to learn more about loops.

- [JavaScript for Loop](#)

### Exercise:

- Define a list that contains the following values: 6, 4, 1, 7, 2, 8, 3, 9, 11.
- Use a for-loop to iterate through all the values in the list and find the smallest value. Print the smallest value. Do this without using JavaScript's built-in min function.
- Use a new for-loop corresponding to problem b, but find and print the largest value.

### Solution:

a)

```
const list = [6, 4, 1, 7, 2, 8, 3, 9, 11];
```

b)

```
var smallest = list[0];
for (num in list){
    if (num < smallest){
        smallest = list[num];
    }
}
console.log(smallest);
```

c)

```
var largest = list[0];
for (num in list) {
    if (num > largest) {
        largest = list[num];
    }
}
console.log(largest);
```

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