

Pre-work exercise for JS:

1. Write a JavaScript function that reverse a number.
2. Write a JavaScript function that returns a passed string with letters in alphabetical order. *Example string : 'webmaster' // Expected Output : 'abeemrstw'* . Assume punctuation and numbers symbols are not included in the passed string.
3. Write a JavaScript function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.
4. Write a JavaScript function that accepts a string as a parameter and counts the number of vowels within the string.
5. Write a JavaScript function which accepts an argument and returns the type (Datatype).
6. Write a JavaScript function that accept a list of country names as input and returns the longest country name as output.
7. Write a JavaScript function to check whether an `input` is an array or not.
8. Write a JavaScript function to clone an array. (Implement this yourself)
9. Write a JavaScript program to sort the items of an array. (Use all the sorting algorithm that we have learned in college)
10. Write a JavaScript program to find duplicate values in a JavaScript array.
11. Write a JavaScript program to compute the union of two arrays.
`console.log(union([1, 2, 3], [100, 2, 1, 10])); // [1, 2, 3, 10, 100]`
12. Write a JavaScript function to get a random item from an array.
13. Write a JavaScript program which iterates the integers from 1 to 100. But for multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz" (Not allowed to use var)
14. Write a JavaScript function to humanized number (Formats a number to a human-readable string.) with the correct suffix such as 1st, 2nd, 3rd or 4th.

Test Data :

```
console.log(humanize_format());  
console.log(humanize_format(1));  
console.log(humanize_format(8));
```

```
console.log(humanize_format(301));  
console.log(humanize_format(402));
```

"1st"

"8th"

"301st"

"402nd"

15. Write any of the question above using arrow function of ES6 JS

16. Write a program on your own use case using either of the following helpers:

forEach, map, filter, find, some, every, reduce

Resources:

<https://www.google.com/>

<http://www.htmldog.com/guides/javascript/beginner/>

<https://www.codecademy.com/learn/introduction-to-javascript>