

Full Stack Web Development

Exercise

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1. Write a function to get the lowest, highest and average value in the array (with and without sort function).
2. Write a function that takes an array of words and returns a string by concatenating the words in the array, separated by commas and – the last word – by an 'and'.
3. Write a function to split a string and convert it into an array of words
 - a. Example : “Hello World” → [“Hello”, “World”]
4. Write a function to calculate each element in the same position from two arrays of integer. Assume both arrays are of the same length.
 - a. Example : [1, 2, 3] + [3, 2, 1] → [4, 4, 4]
5. Write a function that adds an element to the end of an array. However, the element should only be added if it is not already in the array.

Exercise

1. Write a function to remove all odd numbers in an array and return a new array that contains even numbers only
2. Write a function to insert multiple given integer (not an array) to an array and have a maximum size input. The array can only have a maximum size from a given input. (if the maximum size of the given input is 5 then the array can only contain 5 elements).
 - a. Example: maxSize = 5, given integers is 5, 10, 24, 3, 6, 7, 8
 - i. The function will return [5, 10, 24, 3, 6]
3. Write a function that will combine 2 given array into one array
4. Write a function to find duplicate values in an array
5. Write a function to find the difference in 2 given array

Exercise

```
let arr = [1, 'string', null, false, undefined, 2, 'yes', undefined];
```

1. Based on the array above write a function that will return primitive data types only
2. Write a function from a given array of numbers and return the second smallest number
3. Write a function from a given array of mixed data types and return the sum of all the number

```
let arr = [10, 20, 40, 10, 50, 30, 10, 60, 10];
```

4. Write a function from the above array of number that will return sum of duplicate values
5. Write a game of rock, paper, scissor function that will return 'Win' or 'Lose'. The function will randomly pick between rock, paper, or scissor.
 - a. Example: if you throw a rock as an argument and the function pick a scissor then it will return 'Win'

Thank You!

