



JS

# JS Coding Question

## ▼ Reverse a String

```
//str = "sandip"
function reverseString(str){
    let character = "";
    for(let i = 0 ; i < str.length ; i++ ){
        character = str[i] + character;
    }
    console.log(character);
}

reverseString("hello sandip");
```

## ▼ Count all Vowels

```
function getVowelsCount (sentence) {
    let vowelsCount = 0
    const vowels = ['a', 'e', 'i', 'o', 'u']

    for (let char of sentence) {
        if (vowels.includes(char.toLowerCase())) {
            vowelsCount++
        }
    }
}
```

```
        }
        return vowelsCount
    }
}
```

## ▼ isPalindrome

```
function isPalindrome(str) {
    return str.split('').every((char, i) => {
        return char === str[str.length - i - 1]
    })
}
```

## ▼ Remove duplicates

```
function removeDuplicates(array) {
    return [...new Set(array)]
}

function removeDup(arr){
    let tempArr = [];
    for(let i =0 ; i < arr.length ; i++){
        if(tempArr.indexOf(arr[i]) < 0 ){
            tempArr.push(arr[i]);
        }
    }
    console.log(tempArr)
}
removeDup([1,3,4,1,6,7,3])
```

## ▼ Find Max and Min number in an array

```
const max = array.reduce((curval, nextval) => {
    return curval > nextval ? curval : nextval;
});

function max(arr){
    let max = 0;
    for(let i = 0 ; i < arr.length ; i++){
        if(arr[i] > max) max = arr[i]
    }
    console.log(max)
}
max([2,5,3,1,8,4])
```

```
const min = array.reduce((cur, acc) => {
    return cur < acc ? cur : acc;
});
```

## ▼ FizzBuzz

```
for (let i = 1; i <= 100; i++) {
    // Is the number a multiple of 3 and 5?
    if (i % 3 === 0 && i % 5 === 0) {
        console.log('fizzbuzz')
    } else if (i % 3 === 0) {
        // Is the number a multiple of 3?
        console.log('fizz')
        // Is the number a multiple of 5?
    } else if (i % 5 === 0) {
        console.log('buzz')
    } else {
        console.log(i)
    }
}
```

## ▼ Capitalize first letter of a Word in a sentence

```
function capitalize(str) {
    return str
        .split(' ')
        .map(word => word[0].toUpperCase() + word.slice(1)).join(' ');
}
```

## ▼ Find the length of duplicates in an array

```
let array = [1,3,5,2,1,6,5];

// Unique array without duplicates
let unique = [...new Set(array)];

// This array counts duplicates
let duplicates = unique.map(value =>
[value , array.filter(str => str === value).length]);

// console.log(duplicates)
```

## ▼ Reverse a String without Changing Position

```
function reverseString(str){  
    return str.split("").reverse().join("")  
}
```

## ▼ Split an String

```
var s = "overpopulation";  
var arrnew = [...s]  
  
let ar = [];  
for (let i = 0 ; i < s.length ; i++){  
    ar.push(s.charAt(i));  
}
```

## ▼ Count the occurrence of substring in an array

```
function countInstances(string, word) {  
    return string.split(word).length - 1;  
}
```

## ▼ Anagram or not

```
const str1 = 'Sandip'  
  
const str2 = 'pidnaS'  
  
const st1 = str1.split('')  
const st2 = str2.split('')  
  
const item = st1.filter((v)=>!st2.includes(v))  
  
const result = item.length === 0 ? 'Anagram' : 'Not anagram' + ' Difference - ' + item;  
  
console.log(result)
```

## ▼ Fibonacci series

```
var fib = []; // Initialize array!
```

```

fib[0] = 0;
fib[1] = 1;

for (let i = 2; i <= 10; i++) {
    fib[i] = fib[i - 2] + fib[i - 1];
    console.log(fib[i]);
}

console.log(fib)

//fibo number or not

function isFabonacci(n) {
    if (n === 1 || n === 0) {
        return true;
    }
    let firstPrevNumber = n - 1;
    let secondPrevNumber = n - 2;
    return (firstPrevNumber + secondPrevNumber === n);
}
// isFabonacci(2) -> false
// isFabonacci(3) -> true

```

## ▼ Sort Array ascending / descencing

```

console.log(sorting([5,9,2,6,0,12,4,88]))

//ascending
function sorting(arr){
    let temp = [];
    for (let i = 0 ; i < arr.length ; i++){
        for (j = i; j < arr.length ; j++){
            if(arr[i] > arr[j]){
                temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
            }
        }
    }
    return arr
}

//descending
console.log(sorting([5,9,2,6,0,12,4,88]))

function sorting(arr){
    let temp = [];
    for (let i = 0 ; i < arr.length ; i++){
        for (j = 0; j < arr.length ; j++){
            if(arr[i] > arr[j]){

```

```
        temp = arr[i];
        arr[i] = arr[j];
        arr[j] = temp;
    }
}
return arr
}
```

## ▼ move zeros to the end

```
const moveZeroes = (arr) => {
  let c = 0;
  const n = arr.length;
  for (let i = 0; i < n; i++) {
    if (arr[i] !== 0) {
      [arr[i], arr[c]] = [arr[c], arr[i]];
      c++;
    }
  }
  return arr;
};
```