

Q) find triplet from an array to get sum of target number

```
let arr =[9,1,2,3,8,4,5,6];    let target = 11;
```

Q) let students = [{ name: "ABC", gender: "M" }, { name: "1232", gender: "F" }, { name: "ASDF", gender: "M" }, { name: "QWER", gender: "F" }, { name: "ZXCV", gender: "F" }, { name: "ASXCV", gender: "M" }]

output -

```
{ M: [array of students whose gender is M], F: [whose gender is F] }
```

```
convertToObject(students,"gender")
```

```
function convertToObject( arr, keyname ){  
  }  
}
```

Q) Remove duplicates

```
let chars = ['A', 'B', 'A', 'C', 'B']; // const arr = [1,1,1,2,1,3,3,4,4,4,4,5]
```

```
let result=[];
```

```
for(let i=0;i<chars.length;i++){  
  if(!result.includes(chars[i])){  
    result.push(chars[i])  
  }  
}
```

```
}
```

```
console.log(result)
```

Or

```
[...new Set(chars)]
```

Or

```
const arr = [1,1,1,2,1,3,3,4,4,4,4,5]
```

```
let result = {};
```

```
for(let i=0; i<arr.length; i++){  
  if(arr.indexOf(arr[i]) === i ){  
    result[arr[i]] = 1  
  }  
  else{  
    result[arr[i]] +=1  
  }  
}
```

```
}
```

```
console.log(result)
```

Q) Concat 2 objects

```
let obj1 = {name:'abc'};  
let obj2 = {age:20};
```

```
let res= {...obj1, ...obj2}  
console.log(res)
```

Q) Remove that object from arrOfObj which have volume that is present in arr array .

```
let arrOfObj = [  
  { name: 'a', volume: '3', subject: 'abc' },  
  { name: 'b', volume: '8', subject: 'cde' },  
  { name: 'c', volume: '6', subject: 'abc' },  
  { name: 'd', volume: '2', subject: 'xyz' },  
  { name: 'e', volume: '1', subject: 'xyz' },  
  { name: 'f', volume: '5', subject: 'abc' },  
  { name: 'g', volume: '9', subject: 'opq' }  
];  
let arr = [2, 3, 1, 8];  
  
arrOfObj= arrOfObj.filter(obj=> !arr.includes(parseInt(obj.volume)))  
console.log(arrOfObj);
```

Q) Print Fibonacci series upto n = 10

```
let n=10;  
let result=[];  
if(n>=0){  
  result.push(0)  
}  
if(n>=1){  
  result.push(1)  
}  
for(let i=2;i<n;i++){  
  result.push(result[i-1]+result[i-2])  
}
```

```
console.log(result)
```

```
Q) console.log([] == [])
```

```
Q) const user = {  
    name: 'John',  
    getName: () => {  
        return this.name;  
    }  
}
```

```
console.log(user.getName())
```

Q) Count how many pairs of each element are there

Outpt {red:2, ....}

```
let arr = ['red', 'green', 'yellow', 'green', 'red', 'blue', 'red', 'white', 'red', 'green', 'blue'];  
let obj={};
```

```
for(let i=0;i<arr.length;i++){  
    if(arr.indexOf(arr[i]) == i){  
        obj[arr[i]] = 1  
    }else{  
        obj[arr[i]] += 1  
    }  
}
```

```
for(let elem in obj){  
    obj[elem] = Math.floor(obj[elem]/2)  
}
```

Or

```
for(let [key,value] of Object.entries(obj)){  
    obj[key] = Math.floor(value/2)  
}
```

```
console.log(obj)
```

```

fun();
function fun() {
  console.log(1);
  setTimeout(() => {
    console.log(2);
  })
  const task = new Promise((resolve, reject) => {
    console.log(3);
    resolve(() => console.log(4))
    reject(() => console.log(5))
  })
  task
    .then(() => console.log(6))
    .catch(() => console.log(7))
    console.log(8);
}
// 1 3 8 6 2

```

```

console.log("Hello, World!");
//reverse each word in the sentence
let str = "hii all i am aditi priya"
let arr = str.split(" ")
let reversedWordArr = arr.map(elem=> elem.split("").reverse().join(""))
let result = reversedWordArr.join(" ")
console.log(result)

```

```

// let n= 5;

```

```

// function fact(n){

```

```
// if(n==0){  
//   return 1;  
// }  
// return n*fact(n-1);  
// }
```

```
// let result = fact(n)  
// console.log(result)
```

```
// aabc -> c b aa  
// abca -> ac ab
```

```
// debit card -> bad credit
```

```
// let str = "Tom Marvolo Riddle"  
// let comp_str = "I am Lord Voldemort"
```

```
// let arr = str.replace(/s/g,"").toLowerCase().split("")  
// let sortedstr = arr.sort()
```

```
// let comparr = comp_str.replace(/s/g,"").toLowerCase().split("")  
// let sorted_compstr = comparr.sort()
```

```
// console.log(sortedstr,sorted_compstr)  
// if(sortedstr.join("") == sorted_compstr.join("")){  
//   console.log("Anagrams ")  
// }  
// else{  
//   console.log("Not anagrams")  
// }
```

// Create a function called multiply that takes an integer n as input and returns a Promise with the output as  $n*2$  after waiting for n seconds

```
let n= 5 ;  
// function multiply(n){  
//   return new Promise((resolve,reject) => {  
//     setTimeout(()=>{
```

```

//    resolve(2*n)

//    },1000*n)
//  })
//  .then((res) => {
//    console.log(res)
//  })
// }
// multiply(n)

// async function multiply(n){
//   return setTimeout((n)=>{
//     return n*2
//   }, n*1000)
// }
// let res = multiply(n)
// console.log(res)

// let arr = [2398,34,7876,3413,5435,456,5462,9284,2998]
// let result = arr.sort((a,b) => a-b)
// console.log(result)

```

```

Promise.resolve(1)
  .then((r) => {
    console.log(r);
    return r*10;
  })
  .then((r) => {
    console.log(r);
    return r*10;
  })
  .then((r) => {
    return new Promise((resolve, reject)=>{
      setTimeout(()=> {resolve(r*10)
        console.log(r)},1000)
    })
  })
  .then((r) => {
    console.log(r);

```

```
    return r*10;
  })
  .catch((err) => {
    console.log(err);
  });
```

```
// let n= 5;
```

```
// function fact(n){
//   if(n==0){
//     return 1;
//   }
//   return n*fact(n-1);
// }
```

```
// let result = fact(n)
// console.log(result)
```

```
// aabc -> c b aa
// abca -> ac ab
```

```
// debit card -> bad credit
```

```
// let str = "Tom Marvolo Riddle"
// let comp_str = "I am Lord Voldemort"
```

```
// let arr = str.replace(/\s/g,"").toLowerCase().split("")
// let sortedstr = arr.sort()
```

```
// let comparr = comp_str.replace(/\s/g,"").toLowerCase().split("")
// let sorted_compstr = comparr.sort()
```

```
// console.log(sortedstr,sorted_compstr)
// if(sortedstr.join("") == sorted_compstr.join("")){
//   console.log("Anagrams ")
// }
// else{
```

```
// console.log("Not anagrams")
// }
```

// Create a function called multiply that takes an integer n as input and returns a Promise with the output as  $n*2$  after waiting for n seconds

```
let n= 5 ;
// function multiply(n){
//   return new Promise((resolve,reject) => {
//     setTimeout(()=>{
//       resolve(2*n)
```

```
//   },1000*n)
//   })
//   .then((res) => {
//     console.log(res)
//   })
// }
// multiply(n)
```

```
// async function multiply(n){
//   return setTimeout((n)=>{
//     return n*2
//   }, n*1000)
// }
// let res = multiply(n)
// console.log(res)
```

```
// let arr = [2398,34,7876,3413,5435,456,5462,9284,2998]
// let result = arr.sort((a,b) => a-b)
// console.log(result)
```

```
Promise.resolve(1)
.then((r) => {
  console.log(r);
  return r*10;
})
.then((r) => {
  console.log(r);
```



```

    return r*10;
  })
  .then((r) => {
    return new Promise((resolve, reject) => {
      setTimeout(() => {resolve(r*10)
        console.log(r)},1000)
    })
  })
  .then((r) => {
    console.log(r);
    return r*10;
  })
  .catch((err) => {
    console.log(err);
  });

```

```

let bear = {
  sound: 'roar',
  roar() {
    console.log(this.sound);
  },
};

```

```

bear.sound = 'grunt';
let bearSound = bear.roar;
bearSound();

```

When you assign a method to a variable, it loses its original context (*this* binding). So, when `bearSound()` is called, the *this* inside the `roar` method is no longer the `bear` object, but it becomes the global object (or *undefined* in strict mode).

```

// str1 = "anagram"
// str2 = "nagaram"

```

```

// str1 = "cat"
// str2 = "rat"

```

```
// obj1: {a:3 ,n:1 , g:1 ,r:1 ,m:1}
```

```
// obj2: {n:1 ,a: 3,g:1, r: 1, m:1}
```

```
// {c:1,a:1,t:1}
```

```
// {r:1,a:1,t:1}
```

```
// Given an array of integers nums and an integer target, return indices of the two numbers such  
that they add up to target.
```

```
// You may assume that each input would have exactly one solution, and you may not use the  
same element twice.
```

```
// You can return the answer in any order.
```

```
// Example 1:
```

```
// Input: nums = [2,11,15,7], target = 9
```

```
// Output: [0,3]
```

```
// Explanation: Because nums[0] + nums[1] == 9, we return [0, 1].
```

```
// Example 2:
```

```
// Input: nums = [3,2,4], target = 6
```

```
// Output: [1,2]
```

```
// Example 3:
```

```
// Input: nums = [3,3], target = 6
```

```
// Output: [0,1]
```

```
// obj = {2:0,11:0,15:0,7:0} -> O(1)
```

```
// for x in arr:
```

```
// y = target - x
```

```
// if y is in obj:
```

```
// [x,y]
```

```
let str = "ppprqq";
let result = "";
let temp = []; no adjacent char same
no 2 same char together pqrppq
```

```
console.log("Hello, World!");
```

```
// let arr = [58,3,32,45,67]
// let res= arr[0]
// let temp;
// for(let i = 0; i< arr.length ; i++){

//   if(arr[i+1]<arr[i]){
//     temp= arr[i]
//     arr[i]=arr[i+1]
//     arr[i+1]=temp
//   }
// }
// res=arr[arr.length-2]
// console.log(res,arr)
```

```
//anagrams or not
```

```
let str1= "bat";
let str2="tab";
let str3 = "abc";
let str4= "hjse";
```

```
// function anag(a,b){
//   if(a.length !== b.length){
//     console.log("Not anagrams")
//   }else{
//     let str1Obj={};
//     for(let i=0;i<str1.length;i++){
//       for(let j=0;j<str2.length;j++){

//         if(str1[i] !== str2[j]){
//           if( j==str2.length){
//             console.log("not anagrams")
//           }
//         }
//       }
//     }
//   }
// }
```

```

//      }
//      }
//      if(str[i] == str[j]){
//          break
//      }
//      }
//      }
//      if(i== str1.length){
//          console.log("anagrams")
//      }
//      }

```

```

// }
// anag(str1,str2)

```

```

function outer(){
    let a= 10;
    function inner(){
        console.log(a)
    }
    inner()
}
outer()

```

```

// let a={};
// let b = new Object();
console.log("Hello, World!");

```

```

        let    Input= "ABDEFGGEABEF";
        let inputArr = Input.split("")
        let maxLength = 0;
//      console.log(inputArr,"arr")
        for(let i = 0; i<inputArr.length; i++){
            let temp = [];
            temp.push(inputArr[i])

```

```

    for(let j=i+1;j<inputArr.length; j++){
        if(!temp.includes(inputArr[j])){
            temp.push(inputArr[j])
        }else{
            break;
        }
    }
    maxLength = temp.length> maxLength ? temp.length : maxLength
}

console.log(maxLength)

```

N ropes ,join so that minimum sum comes  
 [1,2,3,4] => 19

```

async function foo() {
  console.log(2);
  await null;
  console.log(4);
}

```

```

console.log(1);
foo();
console.log(3);

```

cache

<https://bigfrontend.dev/problem/validate-an-ip-address>

```

isValidIP("1.267.34.abc")
isValidIP("abc")

```

```

console.log("Hello, World!");
// let str= "2.23.34.55"

function isValidIP(str) {
  // your code here
  let arr = str.split('.')
  console.log(arr)
  for(let i=0 ;i<arr.length;i++){
    console.log(parseInt(arr[i]))
  }
}

```

```
    if((arr[i].length == 1 && arr[i]< 1 ) || (arr[i].length == 2 &&
arr[i]< 10 ) || (arr[i].length == 3 && arr[i]< 100 )|| arr[i]>= 255){
        console.log("not valid ipv4")
        break;
    }else if(i == arr.length -1){
        console.log("valid ipv4")
    }
}
}
isValidIP("12.34")
```

there is two collection of users and books , we need to find the number of sandrala books of user afreen and user adity

quest :- Write a function that generates a random alphanumeric string of a given length.

ques :- Write a function that takes an array of integers and returns the largest difference between any two numbers in the array.