1. Do the below programs in anonymous function & IIFE
   1. **Print odd numbers in an array**

const readline = require('readline');

const inp=readline.createInterface({

input: process.stdin

});

let userInput;

inp.on("line", (data) => {userInput = data;

});

inp.on("close", () => {

//start-here

let arr = (userInput.split(","));

a = arr.map(Number); //string to number convertion

answer = [];

**// ---------------------------- Passing array via function**

let oddNumber = function(odd){

for (let i in odd)

if(odd[i] % 2 !== 0)

answer.push(odd[i]);

return answer;

}

oddNumber(a);

console.log(...answer);

**// ------------------------- Different condition = passing array value**

Let oddNumber = function(odd){

if(odd % 2 !== 0)

answer.push(odd);

return answer;

}

for (let i = 0; i<a.length; i++)

{

oddNumber(a[i]);

}

console.log(...answer);

//end-here

});

* 1. **Convert all the strings to title caps in a string array**

**Input –** daniel ROBINSON

**Expected Output –** Daniel Robinson

const readline = require('readline');

const inp=readline.createInterface({

input: process.stdin

});

let userInput;

inp.on("line", (data) => {userInput = data;

});

inp.on("close", () => {

//start-here

let a;

let answer = [];

let titlecase = function(cas)

{

cas = userInput.toLowerCase().split(" ");

for(let i=0; i<cas.length; i++)

answer.push(cas[i].charAt(0).toUpperCase()+cas[i].slice(1));

return answer.join(" ");

}

console.log(titlecase());

});

* 1. **Sum of all numbers in an array**

**Input –** 0 1 2 3 4 5 6 7 8 9 10

**Output** – 55

const readline = require('readline');

const inp=readline.createInterface({

input: process.stdin

});

let userInput;

inp.on("line", (data) => {userInput = data;

});

inp.on("close", () => {

//start-here

let a = userInput.split(" ");

a = a.map(Number);

let sumofinteger = function(arr){

temp = 0;

for(let i = 0; i<a.length; i++)

temp = temp + a[i];

return temp;

}

console.log(sumofinteger(a));

//end-here

});

* 1. **Return all the prime numbers in an array**

let a = [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20];

let temp = 0;

let primenum = function(value){

answer = [];

for(let i=1; i<=a[i]; i++)

{

temp = 0;

for (let j = 1; j <= a[i]; j++)

{

if (a[i] % j == 0)

temp = temp + 1;

}

if(temp == 2)

answer.push(a[i]);

}

return answer;

}

console.log(...(primenum(a)));

* 1. **Return all the palindromes in an array**

userInput = ["daniel", "madam", "dad", "sister","121","678"];

//start-here

let palin = function(strin)

{

dan = strin.split("");

let temp = [];

for(let i = dan.length - 1; i>=0; i--)

{

temp.push(dan[i]);

}

reverseorder = temp.join("");

return reverseorder;

}

for(let i = 0; i<userInput.length; i++)

{

if(userInput[i] === palin(userInput[i]))

console.log(userInput[i]);

}

* 1. **Return median of two sorted arrays of same size**
  2. **Remove duplicates from an array**

let userInput = ["daniel", "madam", "daniel", "sister",121,78,"sister"];

//start-here

let answer = [];

let dup = function(strin)

{

let temp = 0;

let arr = [];

for(let i = 0; i < userInput.length; i++)

{

if (strin == userInput[i])

{

temp = temp + 1;

if(temp > 1)

break;

}

}

if (temp == 1 )

return strin;

}

for(let i = 0; i<userInput.length; i++)

{

if (undefined != dup(userInput[i]))

answer.push(dup(userInput[i]));

// if (undefined != dup(userInput[i]))

}

console.log(answer);

//end-here

* 1. **Rotate an array by k times**

Let arr = [1,2,3,4,5];

userInput = 4;

let rotate = function(arr, userInput)

{

for(let i =0; i < userInput; i++)

{

// userInput.toString();

arr.splice(0,0,arr[arr.length-1]);

arr.pop();

}

return arr;

}

console.log(rotate(arr,userInput)); //end-here

1. Do the below programs in arrow functions
   1. Print odd numbers in an array

const readline = require('readline');

const inp=readline.createInterface({

input: process.stdin

});

let userInput = [];

inp.on("line", (data) => {userInput.push(data);

});

inp.on("close", () => {

//start-here

ans = [];

let oddNum=(a)=> (a % 2!==0) ? ans.push(a) : "no oddNum";

for (let i =0; i<userInput.length; i++)

oddNum(userInput[i]);

console.log(...ans);

//end-here

});

* 1. Convert all the strings to title caps in a string array

const readline = require('readline');

const inp=readline.createInterface({

input: process.stdin

});

let userInput = [];

inp.on("line", (data) => {userInput.push(data);

});

inp.on("close", () => {

//start-here

ans = [];

let temp = userInput[0].toLowerCase().split(" ");

let titleCaps=(a)=>{

for (let i = 0; i<temp.length; i++)

ans.push(a[i].charAt(0).toUpperCase() + a[i].slice(1))

return ans;

}

console.log(...titleCaps(temp));

//end-here

});

* 1. Sum of all numbers in an array

let arr = [1,2,3,4,5,6,7,8,9,10];

let ans = [];

let sumofarr = (temp)=> {

temp = 0;

for (let i in arr)

temp = temp + arr[i];

return temp;

}

console.log(sumofarr(arr));

//end-here

// });

* 1. **Return all the prime numbers in an array**

let arr = [1,2,3,4,5,6,7,8,9,10];

let ans = [];

let temp = 0;

let sumofarr = (tem)=>

{

for (let j = 0; j<tem.length; j++){

temp = 0;

for(let i=1; i<=tem[j]; i++){

if (tem[j] % i === 0)

temp = temp + 1;}

if(temp == 2)

ans.push(tem[j]);

}

return ans;

}

console.log(sumofarr(arr));

* 1. **Return all the palindromes in an array**

let arr = ["daniel", "madam", "dad", "sister","121","678",676,"Guvi"];

let userInput = arr.map(String);//string convertion

//start-here

let palin = (temp)=>{

temp1=[];

let dan = temp.split("");

for(let j=dan.length-1; j>=0; j--)

temp1.push(dan[j]);

let reverseOrder = temp1.join("");

return reverseOrder;

}

for(let i=0; i<userInput.length;i++)

{

if(userInput[i] === palin(userInput[i]))

console.log(userInput[i]);

}