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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = function(inputString){

var finalString=[];

for(var i=0;i<inputString.length;i++){

if(inputString[i]%2 !== 0){

finalString.push(inputString[i]);

}

}

return finalString;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var inputString = userInput[0].split(" ");

console.log(...resultString(inputString));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = function(inputString){

var sentence = inputString.toLowerCase().split(" ");

for(var i = 0; i< sentence.length; i++){

sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1);

}

return sentence;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var inputString = userInput[0];

console.log(...resultString(inputString));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = function(inputString){

var sum =0;

for(var i = 0; i< inputString.length; i++){

sum = sum+Number(inputString[i]);

}

return sum;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var inputString = userInput[0].split(" ");

console.log(resultString(inputString));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = function(number){

var flag = true;

for(var i = 2; i< number; i++){

if (number % i === 0) {

flag = false;

break;

}

}

return flag;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var primeFlag = false;

var primeNumbers=[];

var inputString = userInput[0].split(" ");

for(var j=0;j<inputString.length;j++){

primeFlag = resultString(Number(inputString[j]));

if(primeFlag){

primeNumbers.push(inputString[j]);

}

}

console.log(...primeNumbers);

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

})

const userInput = [];

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

userInput.push(data);

});

var resultString = function(string){

const str = String(string);

let i = 0;

let j = str.length - 1;

while(i < j) {

if(str[i] === str[j]) {

i++;

j--;

}

else {

return false;

}

}

return true;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var primeFlag = false;

var primeNumbers=[];

var inputString = userInput[0].split(" ");

for(var j=0;j<inputString.length;j++){

primeFlag = resultString(inputString[j]);

if(primeFlag){

primeNumbers.push(inputString[j]);

}

}

console.log(...primeNumbers);

//end-here

});

1. **Return median of two sorted arrays of the same size.**

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var median = function(arr1,arr2){

var resultArr = arr1.concat(arr2);

resultArr.sort(function(a,b){

return a-b;

});

var medianLength = resultArr.length/2;

var result = (Number(resultArr[medianLength-1])+Number(resultArr[medianLength]))/2;

return result;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var arr1=userInput[0].split(" ");

var arr2=userInput[1].split(" ");

console.log(median(arr1,arr2));

//end-here

});

1. **Remove duplicates from an array**

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var median = function (arr) {

return [...new Set(arr)];

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var arr1=userInput[0].split(" ");

console.log(...median(arr1));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var median = function (arr,count) {

for(var i = 1; i <= count; i++){

var last;

last = arr[arr.length-1];

for(j = arr.length-1; j > 0; j--){

arr[j] = arr[j-1];

}

arr[0] = last;

}

return arr;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var arr1=userInput[0].split(" ");

var count =Number(userInput[1]);

console.log(...median(arr1,count));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = (inputString) =>{

var finalString=[];

for(var i=0;i<inputString.length;i++){

if(inputString[i]%2 !== 0){

finalString.push(inputString[i]);

}

}

return finalString;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var inputString = userInput[0].split(" ");

console.log(...resultString(inputString));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = (inputString) =>{

var sentence = inputString.toLowerCase().split(" ");

for(var i = 0; i< sentence.length; i++){

sentence[i] = sentence[i][0].toUpperCase() + sentence[i].slice(1);

}

return sentence;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var inputString = userInput[0];

console.log(...resultString(inputString));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = (inputString) => {

var sum =0;

for(var i = 0; i< inputString.length; i++){

sum = sum+Number(inputString[i]);

}

return sum;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var inputString = userInput[0].split(" ");

console.log(resultString(inputString));

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

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

userInput.push(data);

});

var resultString = (number) =>{

var flag = true;

for(var i = 2; i< number; i++){

if (number % i === 0) {

flag = false;

break;

}

}

return flag;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var primeFlag = false;

var primeNumbers=[];

var inputString = userInput[0].split(" ");

for(var j=0;j<inputString.length;j++){

primeFlag = resultString(Number(inputString[j]));

if(primeFlag){

primeNumbers.push(inputString[j]);

}

}

console.log(...primeNumbers);

//end-here

});

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

// Getting input via STDIN

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

})

const userInput = [];

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

userInput.push(data);

});

var resultString = (string) =>{

const str = String(string);

let i = 0;

let j = str.length - 1;

while(i < j) {

if(str[i] === str[j]) {

i++;

j--;

}

else {

return false;

}

}

return true;

}

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

//start-here

//Your code goes here … replace the below line with your code logic

var primeFlag = false;

var primeNumbers=[];

var inputString = userInput[0].split(" ");

for(var j=0;j<inputString.length;j++){

primeFlag = resultString(inputString[j]);

if(primeFlag){

primeNumbers.push(inputString[j]);

}

}

console.log(...primeNumbers);

//end-here

});