/\*1. Do the below programs in anonymous function & IIFE

Print odd numbers in an array

Convert all the strings to title caps in a string array

Sum of all numbers in an array

Return all the prime numbers in an array

Return all the palindromes in an array

Return median of two sorted arrays of the same size.

Remove duplicates from an array

Rotate an array by k times

2. Do the below programs in arrow functions.

Print odd numbers in an array

Convert all the strings to title caps in a string array

Sum of all numbers in an array

Return all the prime numbers in an array

Return all the palindromes in an array \*/

// IIFE

// ------------------------------------------------------------------------------

// Print odd numbers in an array IIFE

(function arrfunc(val) {

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

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

console.log(val[i]);

}

}

})([0,1,2,3,4,5,6]);

//Convert all the strings to title caps in a string array IIFE

(function (input){

input = input.toLowerCase().split(" ");

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

{

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

}

return console.log(input.join(' '));

})("this is titlecase");

// Sum of all numbers in an array IIFE

var output = new Number;

(function (input){

for ( let value of input){

output = output + value;

}

})([1,2,3]);

console.log(output);

// Return all the prime numbers in an array IIFE

(function (input){

for ( let value of input){

if ( (value !== 2) && (value%2 === 0) || (value !== 3) && (value%3 === 0) || (value !== 5) && (value%5 === 0) || (value !== 7) && (value%7 === 0) || (value === 1) || (value === 0)) {

}

else {

console.log(value);

}

}

})([1,2,3,4,5,6]);

// Return all the palindromes in an array IIFE

var k = 0;

var flag = true;

(function (arr){

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

k = arr[i].length - 1;

for (var j = 0;j < arr[i].length && k >= 0;j++){

if (arr[i][j] !== arr[i][k]){

flag = false;

break;

}

k--;

}

if (flag == true){

console.log(arr[i]);

}

}

})(["MOM","DAD","cycle"]);

// Return median of two sorted arrays of the same size. IIFE

var ar1 = [1, 12, 15, 26];

var ar2 = [2, 13, 17, 30];

var n1 = ar1.length;

var n2 = ar2.length;

if (n1 == n2){

(function (ar1, ar2, n)

{

var i = 0;

var j = 0;

var count;

var m1 = -1, m2 = -1;

for (count = 0; count <= n; count++)

{

if (i == n)

{

m1 = m2;

m2 = ar2[0];

break;

}

else if (j == n)

{

m1 = m2;

m2 = ar1[0];

break;

}

if (ar1[i] <= ar2[j])

{

m1 = m2;

m2 = ar1[i];

i++;

}

else

{

m1 = m2;

m2 = ar2[j];

j++;

}

}

return console.log((m1 + m2)/2);

})(ar1, ar2, n1);

}

else{

console.log("unequal arry");

}

// Remove duplicates from an array IIFE

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

var n = arr.length;

var output = [];

var re = new Number;

(function (arr, n)

{

if (n==0 || n==1)

return re = n;

var temp = new Array(n);

var j = 0;

for (var i=0; i<n-1; i++)

if (arr[i] != arr[i+1])

temp[j++] = arr[i];

temp[j++] = arr[n-1];

for (var i=0; i<j; i++)

arr[i] = temp[i];

return re = j;

})(arr, n);

for (let i = 0; i < re; i++){

output[i] = arr[i]

}

console.log(output);

// Rotate an array by k times IIFE

var Array = [1, 2, 3, 4, 5];

var N = Array.length;

var K = 2;

var output = [];

(function (a, n, k)

{

k = k % n;

for (let i = 0; i < n; i++) {

if (i < k) {

output[i] = a[n + i - k];

}

else {

output[i] = a[i - k];

}

}

})(Array,N,K);

// anonymous FUNCTION

// ------------------------------------------------------------------------------

// Print odd numbers in an array

const oddnum = function (arr) {

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

{

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

console.log(arr[i]);

}

}

};

oddnum([1,2,3]);

// Convert all the strings to title caps in a string array

var output;

const titleCaseval = function (input){

input = input.toLowerCase().split(" ");

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

{

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

}

return input.join(' ');

};

output = titleCaseval("this is titlecase");

console.log(output);

// Sum of all numbers in an array

var output = new Number;

const sumOfarr = function (input){

for ( let value of input){

output = output + value;

}

}

sumOfarr([1,2,3]);

console.log(output);

// Return all the prime numbers in an array

const sumofArr = function (input){

for ( let value of input){

if ( (value !== 2) && (value%2 === 0) || (value !== 3) && (value%3 === 0) || (value !== 5) && (value%5 === 0) || (value !== 7) && (value%7 === 0) || (value === 1) || (value === 0)) {

}

else {

console.log(value);

}

}

}

sumofArr([1,2,3,4,5,6]);

// Return all the palindromes in an array

var k = 0;

var flag = true;

const Input = function (arr){

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

k = arr[i].length - 1;

for (var j = 0;j < arr[i].length && k >= 0;j++){

if (arr[i][j] !== arr[i][k]){

flag = false;

break;

}

k--;

}

if (flag == true){

console.log(arr[i]);

}

}

};

Input(["MOM","DAD","cycle"]);

// Return median of two sorted arrays of the same size.

const inputval = function (ar1, ar2, n)

{

var i = 0;

var j = 0;

var count;

var m1 = -1, m2 = -1;

for (count = 0; count <= n; count++)

{

if (i == n)

{

m1 = m2;

m2 = ar2[0];

break;

}

else if (j == n)

{

m1 = m2;

m2 = ar1[0];

break;

}

if (ar1[i] <= ar2[j])

{

m1 = m2;

m2 = ar1[i];

i++;

}

else

{

m1 = m2;

m2 = ar2[j];

j++;

}

}

return (m1 + m2)/2;

}

var ar1 = [1, 12, 15, 26];

var ar2 = [2, 13, 17, 30];

var n1 = ar1.length;

var n2 = ar2.length;

if (n1 == n2)

console.log(inputval(ar1, ar2, n1));

else

console.log("unequal arry");

// Remove duplicates from an array

const inputnum = function (arr, n)

{

if (n==0 || n==1)

return n;

var temp = new Array(n);

var j = 0;

for (var i=0; i<n-1; i++)

if (arr[i] != arr[i+1])

temp[j++] = arr[i];

temp[j++] = arr[n-1];

for (var i=0; i<j; i++)

arr[i] = temp[i];

return j;

}

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

var n = arr.length;

var output = [];

n = inputnum(arr, n);

for (let i = 0; i < n; i++){

output[i] = arr[i]

}

console.log(output);

// Rotate an array by k times

const inputNum = function (a, n, k)

{

k = k % n;

for (let i = 0; i < n; i++) {

if (i < k) {

output[i] = a[n + i - k];

}

else {

output[i] = a[i - k];

}

}

}

let Array = [1, 2, 3, 4, 5];

let N = Array.length;

let K = 2;

var output = [];

inputNum(Array, N, K);

console.log(output);

// arrow functions

// -----------------------------------------------------------------------------

// Print odd numbers in an array

((arr) => {

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

{

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

console.log(arr[i]);

}

}

})([1,2,3]);

// Convert all the strings to title caps in a string array

var output;

const titlecaseval = (input) => {

input = input.toLowerCase().split(" ");

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

{

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

}

return input.join(' ');

};

output = titlecaseval("this is titlecase");

console.log(output);

// Sum of all numbers in an array

var output = new Number;

const sumofarrvalue = (input) => {

for ( let value of input){

output = output + value;

}}

sumofarrvalue([1,2,3]);

console.log(output);

// Return all the prime numbers in an array

const sumofarr = (input) => {

for ( let value of input){

if ( (value !== 2) && (value%2 === 0) || (value !== 3) && (value%3 === 0) || (value !== 5) && (value%5 === 0) || (value !== 7) && (value%7 === 0) || (value === 1) || (value === 0)) {

}

else {

console.log(value);

}

}

}

sumofarr([1,2,3,4,5,6]);

// Return all the palindromes in an array

var k = 0;

var flag = true;

const input = (arr) => {

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

k = arr[i].length - 1;

for (var j = 0;j < arr[i].length && k >= 0;j++){

if (arr[i][j] !== arr[i][k]){

flag = false;

break;

}

k--;

}

if (flag == true){

console.log(arr[i]);

}

}

};

input(["MOM","DAD","cycle"]);