1)Print odd numbers in an array

// anonymous

function(array){

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

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

console.log(array[i])

} } }

// IIFE

(function(array){

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

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

console.log(array[i])

}

}

})

// Arrow Function:

oddNumbers = (array) => {

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

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

console.log(array[i])

}

}

}

// 2)Convert all the strings to title caps in a string array

// anonymous :

function (str) {

str = str.toLowerCase().split(‘ ‘);

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

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

}

return str.join(‘ ‘);

}

// IIFE :

(function (str) {

str = str.toLowerCase().split(‘ ‘);

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

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

}

return str.join(‘ ‘);

})

// Arrow Function :

titleCase = (str) => {

str = str.toLowerCase().split(‘ ‘);

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

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

}

return str.join(‘ ‘);

}

3)Sum of all numbers in an array

// anonymous :

function(array){

var sum = 0;

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

sum = sum + array[i];

}

return sum;

}

// IIFE :

(function(array){

var sum = 0;

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

sum = sum + array[i];

}

return sum;

})([1,2,3,4])

// Arrow:

sum = (array)=>{

var sum = 0;

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

sum = sum + array[i];

}

return sum;

}

4)Return all the prime numbers in an array

// Anonymous Function:

function(numArray){

numArray = numArray.filter((number) => {

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

if (number % i === 0) return false;

}

return true;

});

console.log(numArray);

}

// IIFE

(

function(numArray){

numArray = numArray.filter((number) => {

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

if (number % i === 0) return false;

}

return true;

});

console.log(numArray);

})([1,2,3,4])

// Arrow Function :

primeNumber = (numArray) => {

numArray = numArray.filter((number) => {

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

if (number % i === 0) return false;

}

return true;

});

console.log(numArray);

}

5)Return all the palindromes in an array

function isPalindrome(N)

{

let str = “” + N;

let len = str.length;

for (let i = 0; i < parseInt(len / 2, 10); i++)

{

if (str[i] != str[len — 1 — i ])

return false;

}

return true;

}

// Anonymous Function :

function (arr, n)

{

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

{

let ans = isPalindrome(arr[i]);

if (ans == false)

return false;

}

return true;

}

// IIFE :

( function (arr, n)

{

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

{

let ans = isPalindrome(arr[i]);

if (ans == false)

return false;

}

return true;

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

// Arrow :

Palindrome = (arr, n) =>

{

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

{

let ans = isPalindrome(arr[i]);

if (ans == false)

return false;

}

return true;

}

6) Return median of two sorted arrays of same size

7) Remove duplicates from an Array

// Anonymous Function :

function(array){

let dup = […new Set(array)];

console.log(dup);

}

// IIFE :

(function(array){

let dup = […new Set(array)];

console.log(dup);

})([1,1,2,3,4])

// 8) Rotate an array by K times

function reverse(array , li , ri){

while(li < ri){

int temp = a[li];

a[li]= a[ri];

a[ri] = temp;

li++;

ri — ;

}

}

// Anonymous function :

function(array , k){

k = k % a.length;

if(k < 0){

k += a.length;

}

reverse(a, 0, a.length — k — 1);

reverse(a, a.length — k, a.length — 1);

reverse(a, 0, a.length — 1);

}

// IIFE :

(function(array , k){

k = k % a.length;

if(k < 0){

k += a.length;

}

reverse(a, 0, a.length — k — 1);

reverse(a, a.length — k, a.length — 1);

reverse(a, 0, a.length — 1);

})([1,2,3,4] , 2)