1. Do the below programs in anonymous function & IIFE

A.Print odd numbers in an array

function isOdd(n){

return n%2==1;

}

\\\\\\\\\

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

let odds=arr.filter(n=> n%2)

console.log(odds)

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

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

let odds=arr.filter(n=> n%2)

console.log(odds)

\\\\\\\\\\

function titleCase(str) {

return str.toLowerCase().split(' ').map(function(word){

return (word.charAt(0).toUpperCase());

}).join('');

}

titleCase(" i am a developer");

C. Return all the prime numbers in an array

const newArray=[1,3,2,5,19];

const isPrime=num=>{

for (let i=2;i<num;i++){

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

}

return num !==1;

};

const myPrimeArray=newArray.filter(element=>isPrime(element));

console.log(myPrimeArray);

\\\\\\

var numArray=[2,3,4,5,6,7,8,9,10]

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

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

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

}

return true;

});

console.log(numArray);

D. Return all the palindromes in an array

function palindrome(str){

var len=str.length;

var mid=Math.floor(len/2);

for (var i=0;i<mid;i++){

if(str[i]!==str[len-1-i]){

return false;

}

}

return true;

}

/////////

for (var i=0; i<10;i++){

abc += abc;

}

function reverse(s){

return s.split("").reverse().join("");

}

abc+=reverse(abc);

E. Return all the palindromes in an array

function reverse(s){

return s.split("").reverse().join("");

}

function checkIsPalindrome(array){

var result=[];

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

result.push(array[i]==reverse(array[i]));

}

return result;

}

/////////

const getAllPalindromes=(words)=>{

return words.filter((word)=>{

word.split("").reverse().join("")===word;

});

};

console.log(getAllPalindromes(["siva","raman"]));

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

function mediumOfArray(array){

var mid=math.floor(array.length/2);

if (array.length%2===0);{

return (array[mid]+array[mid-1])/2;

}

return array[mid];

}

console.log(mediumOfArray);

/////////

function findMedianOfArrayAndValueEvenCase(array,arrayMedian,value){

if (arrayMedian>value){

var left=array[array.length/2-1];

return math.max(left,value);

}else{

var rigth=array[array.length/2];

return math.min(rigth,value);

}

}

//////

G.Remove duplicates from an array

let characters=['A','B','C','A'];

let uniqueCharacters=characters.filter((c,index)=>{

return characters.indexOf(c)===index;

});

console.log(uniqueCharacters);

//////////

let arr=[1,2,3,4,1,1,3,4];

let filter=arr.filter((item,index)=>

arr.indexOf(item)===index)

console.log(filter);

H. Rotate an array by k times

const rotateArray1= function(numbers,k){

for (var i=0;i<k;i++){

numbers.unshift(numbers.pop());

}

return nums;

}

//////////

function arrayRotate(array,reverse){

if(reverse)array.unshift(array.pop());

else array.push(array.shift());

return array;

}

console.log(arrayRotate);

2. Do the below programs in arrow functions

A.Print odd numbers in an array

function findOdd(A) {

let counts = A.reduce((p,n) => (p[n] = ++p[n]));

return +Object.keys(counts).find(k=> counts[k]%2);

}

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

function uppercase(str) {

var arr1=str.split('');

var newarr1=[];

for(var i=0;i,arr1.length;i++){

newarr1.push(arr1[i]);

}

return newarr1.join('');

}

console.log(uppercase("i am single"));

C.Sum of all numbers in an array

var arr=[2,3,4]

var temp=arr[0];

arr.reduce((a,b) => a+b,0)

for (var i=1;i<arr.length;i++)

{

temp=temp^arr[i]

}

console.log(temp);

D.Return all the prime numbers in an array

const newArray = [1, 3, 2, 5, 10];

const isPrime = num => {

for (let i = 2; i < num; i++) {

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

}

return num !== 1;

};

const myPrimeArray = newArray.filter(element => isPrime(element));

console.log(myPrimeArray);

E.Return all the palindromes in an array

const getAllPalindromes = (words) => {

return words.filter((word) => {

word.split("").reverse().join("") === word;

});

};

console.log(getAllPalindromes(["ishu", "neka"]));