Do the below programs in anonymous function & IIFE

1. Print odd numbers in an array

(function (arr)

{

let odd = [];

for (let i in arr) {

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

odd.push(arr[i]);

}

}

console.log(odd);})

([1, 2, 3, 4, 5, 6,7,8]);

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

let caps = function (str) {

return str[0].toUpperCase() + str.slice(1);

};

console.log(caps(“javascript"));

1. Sum of all numbers in an array

var arr = [11, 12, 13, 14,15];

var total = 0;

for (var i in arr) {

total += arr[i];

}

console.log(total);

1. Return all the prime numbers in an array

let prime = function (arr) {

return arr.filter((n) => {

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

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

}

return n > 1;

});

};

console.log(prime([2,3,7,9,13,19,21,35]));

1. Return all the palindromes in an array

var words = ['amma', 'racecar', 'apple', 'porcupine', 'appa','live', 'level'];

var arr = [];

var str = words.slice(0);

var palndrm = str.toString().split("").reverse().join("").split(",");

console.log(palndrm);

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

for (let z = 0; z < palndrm.length; z++) {

if (words[i] == palndrm[z]) {

arr.push(words[i])

}

}

} console.log(arr);

1. Return median of two sorted arrays of same size

function getMedian(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 = [3, 5, 7, 12, 13, 14, 21];

var ar2 = [23, 23, 23, 23, 29, 40, 56];

var n1 = ar1.length;

var n2 = ar2.length;

if (n1 == n2)

console.log("Median is "+ getMedian(ar1, ar2, n1));

else

console.log("Doesn't work for arrays of unequal size");

1. Remove duplicates from an array

(function (rpt) {

let arr1 = [];

for (let i in rpt) {

if (arr1.indexOf(rpt[i]) === -1)

{

arr1.push(rpt[i]);

}

}

console.log(arr1);

})

([3, 5, 7, 12, 14, 14, 21, 23, 23, 23, 23]);

1. Rotate an array by k times

let rotated = function (arr, k) {

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

arr.unshift(arr.pop());

}

return arr;

};

console.log(rotated([1, 3, 4], 2));