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

Soln: let arr = [1,2,3,4,5,6,7,8,9,10,11,12]

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

console.log(odds)

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

Solution: function titleCase(str) {

return str.toLowerCase().replace(/\b(\w)/g, s => s.toUpperCase());

}

console.log(titleCase('iron man'));

console.log(titleCase('iNcrEdible hulK'));

* 1. Sum of all numbers in an array

Solution: add = function(arr) {

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

};

var arr = [3, 6, 1, 5, 8];

var sum = add(arr);

console.log(sum)

* 1. Return all the prime numbers in an array

Solution: 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(isPrime);

console.log(myPrimeArray);

* 1. Return all the palindromes in an array

const arr = ['carecar', 1344, 12321, 'did', 'cannot'];

const isPalindrome = el => {

   const str = String(el);

   let i = 0;

   let j = str.length - 1;

   while(i < j) {

      if(str[i] === str[j]) {

         i++;

         j--;

      }

      else {

         return false;

      }

   }

   return true;

};

const findPalindrome = arr => {

   return arr.filter(el => isPalindrome(el));

};

console.log(findPalindrome(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; /\* Store the prev median \*/

            m2 = ar1[i];

            i++;

        }

        else

        {

            m1 = m2; /\* Store the prev median \*/

            m2 = ar2[j];

            j++;

        }

    }

    return (m1 + m2)/2;

}

var ar1 = [1, 12, 15, 26, 38];

var ar2 = [2, 13, 17, 30, 45];

var n1 = ar1.length;

var n2 = ar2.length;

if (n1 == n2)

    document.write("Median is "+ getMedian(ar1, ar2, n1));

else

    document.write("Doesn't work for arrays of unequal size");

* 1. Remove duplicates from an array

Function removeDuplicates(array){

Return array.filter((a,b)=>array.indexOf(a)===b)

};

* 1. Rotate an array by k times

function rotateArray(A, K) {

if (!A.length) return A;

let index = -1;

while (++index < K) {

A.unshift(A.pop());

}

return A;

}

[

rotateArray([3, 8, 9, 7, 6], 3),

rotateArray([0, 0, 0], 1),

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

rotateArray([], 4),

].join(' | ');