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//Anonymous function
//1.Print odd numbers in an array
/*var res = function(arr) {
    const oddNumbers = []
    for(let i = 0; i < arr.length; i++)
    {
        arr[i] % 2 === 1 && oddNumbers.push(arr[i]);
    }
    console.log(oddNumbers);
    // return oddNumbers;
}
console.log(res([4, 45, 85, 99, 56, 100, 101]));*/
//2. Convert all the strings to title caps in a string array
/*var res1 = function titleCase(str) {
    str = str.toLowerCase().split(' ');
    for (let i = 0; i < str.length; i++) {
        str[i] = str[i].charAt(0).toUpperCase() + str[i].slice(1);
    }
    return str.join(' ');
}
console.log(res1("Guvi geek fUll stack development"));*/

/*3.Sum of all numbers in an array
var res2 = function(array)
{
    let suma = 0;
    for(let i = 0; i<array.length; i++)
    {
        suma = suma + array[i];
    }
    return suma;
}
console.log(res2([4, 5, 8, 10]));*/
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/*4. print all the prime numbers in a array
function isPrime(num) {
    for(let i = 2; i < num; i++){
        if(num % i === 0) return false;
    }
    return true;
}
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let arr = [2, 3, 4, 5, 6, 7, 8, 9, 10];
let primes = [];
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for(let i = 0; i < arr.length; i++) {
    if(isPrime(arr[i])) {
        primes.push(arr[i]);
    }
}
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console.log(primes); // [2, 3, 5, 7]*/
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/*4.Return all the palindromes in an array
var myArray = ['viicc', 'ada', 'honda'];
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function palindrom(words) {
    var p = words.split("").reverse().join("");
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    if(p === words){
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        console.log(words);
        return(words);
    } else {
        return("0");
    }
}
for (var i = 0; i < myArray.length; i++) {
    palindrom(myArray[i]);
}*/

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/*Return median of two sorted arrays of the same size.
var res = function getMedian(ar1, ar2, n)
{
    let j = 0;
    let i = n - 1;
    while (ar1[i] > ar2[j] && j < n && i > -1)
    {
        let temp = ar1[i];
        ar1[i] = ar2[j];
        ar2[j] = temp;
        i--; j++;
    }
    ar1.sort(function(a, b){return a - b});
    ar2.sort(function(a, b){return a - b});
    var ar4 = (ar1[n - 1] + ar2[0]) / 2
    console.log(ar4);
    return parseInt(ar4, 10);
}
    console.log(res([ 1, 12, 15, 26, 38 ], [2, 13, 17, 30, 45], 5))
    //let ar1 = [ 1, 12, 15, 26, 38 ];
    //let ar2 = [ 2, 13, 17, 30, 45 ];*/

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/*Remove duplicates from an array
function removeDuplicates(arr, n)
{
    if (n==0 || n==1)
        return n;

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    var temp = new Array(n);
    var j = 0;
    for (var i=0; i<n-1; i++)

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        if (arr[i] != arr[i+1])
            temp[j++] = arr[i];

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

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    for (var i=0; i<j; i++)
        arr[i] = temp[i];

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    return j;
}

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

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n = removeDuplicates(arr, n);

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    for (var i=0; i<n; i++)
        document.write( arr[i]+" ");
*/
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/*Rotate an array k times
var z = function Rotate(arr,k)
{
    k = k % arr.length;

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

            document.write(a[arr.length + i - k] + " ");
        }
        else {

            document.write((a[i - k]) + " ");
        }
    }
    document.write("<br>");
}
console.log(z([1, 2, 3, 4, 5], 2));*/
```