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Anonymouos and IIFE funcation practice

1. Print odd number in an array:

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Anonymous function :

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let odd = [];

let result = function(arr)

{

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

{

if(arr[i]%2==1)

{

odd.push(arr[i]);

}

}

return result;

}

result([8, 19, 5, 6, 14, 9, 13]);

console.log(odd);

--------------------------

IIFE function :

---------------------------

let odd = [];

(function result(arr)

{

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

{

if(arr[i]%2==1)

{

odd.push(arr[i]);

}

}

})

([8, 19, 5, 6, 14, 9, 13]);

console.log(odd);

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Arrow function : using filter method

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let number = [8, 19, 5, 6, 14, 9, 13];

let odd = number.filter((num)=> num%2 == 1);

console.log(odd);

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2) Convert all the Strings to title caps in string array

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Anonymous function :

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let test = function(words)

{

let result = words.split(" ");

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

{

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

}

return result.join();

}

console.log(test("praveen kumar corporate leadership"));

--------------------------

IIFE function :

---------------------------

let arr = [];

(function test(words)

{

let result = words.split(" ");

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

{

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

result.join();

}

console.log(result);

})("praveen kumar corporate leadership")

--------------------------

Arrow function :

---------------------------

let test =(words)=>

{

let result = words.split(" ");

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

{

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

}

return result.join();

}

console.log(test("praveen kumar corporate leadership"));

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3) Sum of all numbers in an array.

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Anonymous function :

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let sum=0;

let result = function (arr)

{

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

{

sum = sum+arr[i];

}

return sum;

}

console.log(result([2,4,5,12,20]));

--------------------------

IIFE function :

---------------------------

let sum=0;

(function result(arr)

{

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

{

sum = sum+arr[i];

}

return sum;

})

([2,4,5,12,20]);

console.log(sum);

--------------------------

Arrow function :

---------------------------

let sum=0;

let result = (arr)=>

{

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

{

sum = sum+arr[i];

}

return sum;

}

console.log(result([2,4,5,12,20]));

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4)Return all the prime numbers in an array

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Normal function :

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const numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10,13,15,18];

function isPrime(num) {

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

if (num % i == 0) {

return false;

}

}

return num > 1; // print the 1 above number

}

console.log(numbers.filter(isPrime));

//Respresent String:

function test(start,end){

for(var num=start; num<end; num++)

{

var pNumber = true;

for(var limit=2; limit<num; limit++)

{

if(num%limit == 0)

{

pNumber = false;

}

}

if(pNumber == true)

{

console.log(limit);

}

}

}

test(2,15);

--------------------------

Anonymous function :

---------------------------

const numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10,13,15,18];

let isPrime = function(num) {

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

if (num % i == 0) {

return false;

}

}

return num > 1; // print the 1 above number

}

const primeNumbers = numbers.filter(isPrime);

console.log(primeNumbers);

//Respresent String:

let test = function(start,end){

for(var num=start; num<end; num++)

{

var pNumber = true;

for(var limit=2; limit<num; limit++)

{

if(num%limit == 0)

{

pNumber = false;

}

}

if(pNumber == true)

{

console.log(limit);

}

}

}

test(2,25);

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IIFE function :

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//Respresent String:

(function test(start,end){

for(var num=start; num<end; num++)

{

var pNumber = true;

for(var limit=2; limit<num; limit++)

{

if(num%limit == 0)

{

pNumber = false;

}

}

if(pNumber == true)

{

console.log(limit);

}

}

})

(2,25);

--------------------------

Arrow function :

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notes@@:

//Prime is 1 and number itself right so If multiple extra number it is not prime so we can choose number "2".

//Example : 1 vandhu apply aagadhu so namma next 2 number choose pannrom.

//why means 2 vachii panna extra multiple calculation vara number return false panniranum.

const numbers = [1,2, 3, 4, 5, 6, 7, 8, 9, 10,13,15,18];

let isPrime = (num)=> {

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

if (num % i == 0) {

return false;

}

}

return num > 1; // print the 1 above number

}

const primeNumbers = numbers.filter(isPrime);

console.log(primeNumbers);

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5) Return all the palindromes in an array

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Anonymous function :

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let palindrome = function(arr){

let result = [];

//forEach inline callback function

arr.forEach(function(title){

if(title === title.split("").reverse().join(""))

{

result.push(title);

}

});

return result;

}

console.log(palindrome(["level","cinic","atoms","earth","venue"]));

--------------------------

IIFE function :

---------------------------

let palindrome = function(arr){

let result = [];

//forEach inline callback function

arr.forEach(function(title){

if(title === title.split("").reverse().join(""))

{

result.push(title);

}

});

console.log(result);

}

(["level","cinic","atoms","earth","venue"]);

--------------------------

Arrow function :

---------------------------

let palindrome = (arr) =>{

let result = [];

//forEach inline callback function

arr.forEach(function(title){

if(title === title.split("").reverse().join(""))

{

result.push(title);

}

});

return result;

}

console.log(palindrome(["level","cinic","atoms","earth","venue"]));

// let words = ["level","cinic","atoms","earth","venue"];

// console.log(palindrome(words));

--------------------------------------------------------------------

Without forEach using palindrome: maybe execution time will more]

-------------------------------------------------------------------

let palindrome = (arr) =>{

let result = [];

//forEach inline callback function

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

{

if(arr[i]=== arr[i].split("").reverse().join(""))

{

result.push(arr[i]);

}

}

return result;

}

console.log(palindrome(["level","cinic","atoms","earth","venue"]));

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6) Return median of two sorted arrays of the same size.

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solution:

https://gist.githubusercontent.com/lavishjain36/0961c88c46e0a55c898a5ec6f7654e66/raw/dbdbb7c60a5ed006169319808502b5993cacf3eb/gistfile1.txt

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Anonymous function :

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let medianOfTwoSortedArrays = function(arr1, arr2) {

let m1 = -1, m2 = -1;

let i = 0, j = 0;

let n = arr1.length;

for (let count = 0; count <= n; count++) {

if (i === n) {

m1 = m2;

m2 = arr2[0];

break;

}

else if (j === n) {

m1 = m2;

m2 = arr1[0];

break;

}

if (arr1[i] < arr2[j]) {

m1 = m2;

m2 = arr1[i];

i++;

}

else {

m1 = m2;

m2 = arr2[j];

j++;

}

}

if (n % 2 === 0) {

return (m1 + m2) / 2;

}

else {

return m2;

}

}

let arr1 = [1, 14, 35, 26, 38];

let arr2 = [2, 19, 27, 32, 48];

console.log(medianOfTwoSortedArrays(arr1, arr2));

--------------------------

IIFE function :

---------------------------

(function(arr1, arr2) {

let m1 = -1, m2 = -1;

let i = 0, j = 0;

let n = arr1.length;

for (let count = 0; count <= n; count++) {

if (i === n) {

m1 = m2;

m2 = arr2[0];

break;

}

else if (j === n) {

m1 = m2;

m2 = arr1[0];

break;

}

if (arr1[i] < arr2[j]) {

m1 = m2;

m2 = arr1[i];

i++;

}

else {

m1 = m2;

m2 = arr2[j];

j++;

}

}

if (n % 2 === 0) {

return (m1 + m2) / 2;

}

else {

console.log(m2);

}

})

([1, 14, 35, 26, 38],[2, 19, 27, 32, 48])

// console.log(medianOfTwoSortedArrays(arr1, arr2));

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7) Remove duplicates from an array

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@@Reduce method using find duplication in an array :

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var arr = ["Praveen","Ajax","Router","Praveen","Router","Providers","Ajax"];

function unique(arr){

return [...new Set(arr)]; //The Set object lets you store unique values of any type

console.log(unique(arr));

--------------------------

Arrow function :

---------------------------

var arr = ["Praveen","Ajax","Router","Praveen","Router","Providers","Ajax"];

let duplicate = (arr)=>

{

let unique = arr.reduce(function(acc,curr)

{

if(!acc.includes(curr))

acc.push(curr);

return acc;

},[]);

return unique;

}

console.log(duplicate(arr));

--------------------------

Anonymous function :

---------------------------

var arr = ["Praveen","Ajax","Router","Praveen","Router","Providers","Ajax"];

let duplicate = function(arr)

{

let unique = arr.reduce(function(acc,curr)

{

if(!acc.includes(curr))

acc.push(curr);

return acc;

},[]);

return unique;

}

console.log(duplicate(arr));

--------------------------

IIFE function :

---------------------------

var arr = ["Praveen","Ajax","Router","Praveen","Router","Providers","Ajax"];

(function duplicate(arr)

{

let unique = arr.reduce(function(acc,curr)

{

if(!acc.includes(curr))

acc.push(curr);

return acc;

},[]);

console.log(unique);

})

(arr);

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8) Rotate an array by k times

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Normal function :

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let arr = [2,3,4,5,6];

let n = arr.length;

let k = 2;

function rotatearray(a,n,k)

{

let temp = [];

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

{

if(i<k)

{

temp.push(a[i+n-k]);

}

else

{

temp.push(a[i-k]);

}

}

return temp;

}

console.log(rotatearray(arr,n,k));

--------------------------

@@@Code optimization :

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1. unshift()

//The unshift() method adds one or more elements to the beginning of an array and returns the new length of the array.

2. pop()

//The pop() method removes the last element from an array and returns that element. This method changes the length of the array.

const rotateArray1 = function(nums, k) {

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

nums.unshift(nums.pop());

}

return nums;

}

console.log(rotateArray1([2,3,4,5,6],2));

--------------------------

Anonymous function :

---------------------------

let arr = [2,3,4,5,6];

let n = arr.length;

let k = 2;

let rotatearray = function(a,n,k)

{

let temp = [];

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

{

if(i<k)

{

temp.push(a[i+n-k]);

}

else

{

temp.push(a[i-k]);

}

}

return temp;

}

console.log(rotatearray(arr,n,k));

--------------------------

IIFE function :

---------------------------

let arr = [2,3,4,5,6];

let n = arr.length;

let k = 2;

(function rotatearray(a,n,k)

{

let temp = [];

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

{

if(i<k)

{

temp.push(a[i+n-k]);

}

else

{

temp.push(a[i-k]);

}

}

console.log(temp);

})

(arr,n,k);