1.Print odd numbers in an array anonymous function:

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

(function() {

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

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

console.log(arr[i]);

}

}

})();

* 1. Print odd numbers in an array IIFE function:

(function() {

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

// Filter the odd numbers using the Array.filter method

const oddNumbers = numbers.filter(num => num % 2 !== 0);

// Print the odd numbers

console.log(oddNumbers);

})();

2. Convert all the strings to title caps in a string array anonymous function

const stringArray = ["hello world", "javascript is awesome", "happy coding"];

const titleCapsArray = stringArray.map(function(str) {

// Split the string into words

const words = str.split(" ");

// Capitalize the first letter of each word and join them back together

const titleCasedWords = words.map(function(word) {

return word.charAt(0).toUpperCase() + word.slice(1).toLowerCase();

})

// Join the title cased words back into a sentence

return titleCasedWords.join(" ");

});

console.log(titleCapsArray);

3. Sum of all numbers in an array anonymous function

const numbers = [1, 2, 3, 4, 5];

const sum = numbers.reduce(function(acc, num) {

return acc + num;

}, 0);

console.log(sum);

4. Return all the prime numbers in an array anonymous function

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

const primes = numbers.filter(function(num) {

// Check if the number is less than 2 or equal to 2

if (num < 2) {

return false;

}

// Check if the number is divisible by any number other than 1 and itself

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

if (num % i === 0) {

return false;

}

}

return true;

});

console.log(primes);

5. Return all the palindromes in an array anonymous function

const words = ["racecar", "hello", "civic", "level", "world"];

const palindromes = words.filter(function(word) {

// Reverse the word and compare it to the original

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

return word === reversedWord;

});

console.log(palindromes);

6. Return median of two sorted arrays of the same size anonymous function

const arr1 = [1, 3, 5, 7, 9];

const arr2 = [2, 4, 6, 8, 10];

const median = function(nums1, nums2) {

const combined = nums1.concat(nums2);

const sorted = combined.sort(function(a, b) {

return a - b;

});

const mid = Math.floor(sorted.length / 2);

if (sorted.length % 2 === 0) {

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

} else {

return sorted[mid];

}

};

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

anonymous function

7. Remove duplicates from an array

const fruits = ["apple", "banana", "orange", "apple", "pear", "banana"];

const uniqueFruits = fruits.filter(function(fruit, index, self) {

// Only keep the first occurrence of each fruit

return index === self.indexOf(fruit);

});

console.log(uniqueFruits);

8. Rotate an array by k times anonymous function

const nums = [1, 2, 3, 4, 5];

const k = 2;

const rotateArray = function(arr, k) {

// If k is greater than the length of the array, reduce it by the length

k = k % arr.length;

// Rotate the array by slicing and concatenating

const rotated = arr.slice(k).concat(arr.slice(0, k));

return rotated;

};

console.log(rotateArray(nums, k));