//1.Print odd numbers in an array

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

//3.Sum of all numbers in an array

//4.Return all the prime numbers in an array

//5.Return all the palindromes in an array

//6.Return median of two sorted arrays of same size

//7.Remove duplicates from an array

//8.Rotate an array by k times and return the rotated array

//IIFE FUNCTION & ANONYMOUSFUCTION.

// 1. Print odd numbers in an array

(function(array){

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

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

console.log(array[i]);

}

}

})([1,2,3,4,5,6,7,8,9,10,25]);

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

let str = ["thivi", 'is', 'a', 'smart', 'developer'];

let resultStr = (function (str) {

return (str.map((item) => {

return item.toUpperCase();

}));

})(str);

console.log("All upper case string in an array: " + resultStr);

//3.Sum of all numbers in an array

(function(array){

var sum = 0;

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

sum = sum + array[i];

}

console.log(sum);

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

//4.Return all the prime numbers in an array

(function(numArray){

numArray = numArray.filter((number) => {

for (var i = 2; i <= Math.sqrt(number); i++) {

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

}

return true;

});

console.log(numArray);

})([11,2,3,4,13])

//5.Return all the palindromes in an array

const getAllPalindromes = (function (words) {

return words.filter(function (word) {

return word.split("").reverse().join("") === word;

});

});

console.log(getAllPalindromes(["hello", "noon"]));

//6. Return median of two sorted arrays of same size

let arr1 = [1, 2, 3, 4, 5, 8, 10]

let arr2 = [8, 9, 10, 12, 16]

let resultMedian = function (arr1, arr2) {

let result = []

let lenArr1 = arr1.length

let lenArr2 = arr2.length

if (lenArr1 % 2 === 0) {

console.log("Median of array 1: " + arr1[lenArr1 / 2])

} else {

console.log("Median of array 1: " + arr1[(lenArr1 + 1) / 2])

}

if (lenArr2 % 2 === 0) {

console.log("Median of array 2: " + arr2[lenArr2 / 2])

} else {

console.log("Median of array 2: " + arr2[(lenArr2 + 1) / 2])

}

return

}(arr1, arr2)

//7.Remove duplicates from an array

(function(array){

let dup = [...new Set(array)];

console.log(dup);

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

//8.Rotate an array by k times and return the rotated array

let rotation = [1,2]

let result = ((array, k) => {

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

let temp = array.shift()

array.push(temp)

}

return array

})(rotation, 3)

console.log("Array roatated k times: " + result)