1. Printing odd numbers in an array

let Odd = [6,2,9,11,10,45,68,99,42,12]

let Array1 = (function (Odd) {

return (Odd.filter((item) => {

return item % 2 !== 0

}))

})

(Odd);

console.log("All odd numbers in an array: " + Array1)

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

let stringArray = ["Hi", 'hello', 'welcome', 'stack', 'developer']

let resultStringArray = (function (stringArray) {

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

return item.toUpperCase()

}))

})(stringArray);

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

1. Sum of all numbers in an array

let arrayNumber = [6,2,9,11,10,45,68,99,42,12]

let resultSumArray = (function (arrayNumber) {

return (arrayNumber.reduce((currentTotal, item) => {

return currentTotal + item

}, 0))

})(arrayNumber);

console.log("Sum of numbers in an array: " + resultSumArray)

1. Return all the prime numbers in an array

let arrayNumber = [6,2,9,11,10,45,68,99,42,12]

let resultPrimeArray = (function (arrayNumber) {

return (arrayNumber.filter((item) => {

for (i = 2; i < item; i++) {

if (item % i === 0)

return false

}

return true

}))

})(arrayNumber);

console.log("Prime numbers in an array: " + resultPrimeArray)

1. Return all the palindromes in an array

let arrayNumber = [6,2,9,11,10,45,68,99,42,12]

let resultPallindromeArray = (function (arrayNumber) {

return (arrayNumber.filter((item) => {

let temp = item + ""

if ((temp.split('').reverse().join('')) === item + "")

return true

return false

}))

})(arrayNumber);

console.log("Pallindrome numbers in an array: " + resultPallindromeArray)

1. 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)

1. Remove duplicates from an array

let arrayWithDup = [22, 22, 11, 10, 11, 56, 10, 1, 2, 6, 7, 56, 3, 9]

let resultArrayWoDup = ((arrayWithDup, index) => {

return [...new Set(arrayWithDup)]

})(arrayWithDup)

console.log("Array without Duplicates " + resultArrayWoDup)

1. Rotate an array by k times and return the rotated array.

let arrforrotation = [0, 1, 5, 6, 7, 9]

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

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

let temp = array.shift()

array.push(temp)

}

return array

})(arrforrotation, 3)

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