Binary Search

var arr = [ 2, 3, 4, 10, 40 ]

var x = 10

function binarySearch(arr,l,r,x){

if(r>=1){

var mid = l + (r-1)

if(arr[mid]===x){

return "element found " + arr[mid] + " at index " +mid

}else if(arr[mid]> x){

return binarySearch(arr, l, mid-1, x)

}else{

return binarySearch(arr, mid + 1, r, x)

}

}else{

return -1

}

}

console.log(binarySearch(arr,0,arr.length-1,x))