# Technical/Design Questions

### What is a Typed language?

1. How to create a cookie using JavaScript?
2. What is the difference between Local storage & Session storage?
3. For what require () is used in Node Js?

### What is the difference between undeclared & undefined?

### Name some of the JavaScript Framework

### What is the difference between window & document in JavaScript?

1. How much is true?

Create a function which returns the number of true values there are in an array.

### Examples

countTrue([true, false, false, true, false]) ➞ 2

countTrue([false, false, false, false]) ➞ 0

countTrue([]) ➞ 0

### Notes

* Return 0 if given an empty array.
* All array items are of the type bool (true or false).

1. **Length of a Nested Arra**y

The .length property on an array will return the number of elements in the array. For example, the array below contains 2 elements:

[1, [2, 3]]

// 2 elements, number 1 and array [2, 3]

Suppose we instead wanted to know the **total number of non-nested items** in the nested array. In the above case, [1, [2, 3]] contains 3 **non-nested items**, 1, 2 and 3.

Write a function that returns the total number of non-nested items in a nested array.

### Examples

getLength([1, [2, 3]]) ➞ 3

getLength([1, [2, [3, 4]]]) ➞ 4

getLength([1, [2, [3, [4, [5, 6]]]]]) ➞ 6

getLength([1, [2], 1, [2], 1]) ➞ 5

### Notes

An empty array should return 0.

# Algorithm and Data Structure

Note: Please state O (N) for Time and Space as well for your answers.

1. <https://leetcode.com/problems/roman-to-integer/>
2. <https://leetcode.com/problems/merge-intervals/>
3. <https://leetcode.com/problems/search-a-2d-matrix/>
4. <https://leetcode.com/problems/find-all-duplicates-in-an-array/>
5. <https://leetcode.com/problems/linked-list-cycle/>

# Exercise 1

Given are Three arrays **A**, **B** and **C**.

Return the sorted list of numbers that are present in atleast 2 out of the 3 arrays.

**Problem Constraints**

1 <= |A|, |B|, |C| <= 100000

1 <= A[i], B[i], C[i] <= 100000

A, B, C may or may not have pairwise distinct elements.

**Input Format**

First argument is the array A.

First argument is the array B.

First argument is the array C.

**Output Format**

Return a sorted array of numbers.

**Example Input**

Input 1:

A = [1, 1, 2]

B = [2, 3]

C = [3]

Input 2:

A = [1, 2]

B = [1, 3]

C = [2, 3]

**Example Output**

Output 1:

[2, 3]

Output 2:

[1, 2, 3]

**Example Explanation**

Explanation 1:

1 is only present in A. 2 is present in A and B. 3 is present in B and C.

Explanation 2:

All numbers are present in atleast 2 out of 3 lists.

## Recruitment agencies

Ideally you want to get a job from the company directly or through the company recruiter. However, to speed up the process I found that recruitment agencies do indeed help. It’s like having other people doing the job search with you, and they usually give you personalize tips and advices on the specific company’s interview they submit you to; from pervious candidates’ experience.

1. <https://www.teksystems.com/en> (Lot of mentees had success with this one)
2. <https://www.roberthalf.com/looking-for-a-job>
3. <https://www.cybercoders.com/>
4. <https://www.adeccousa.com/easy-apply/>
5. InfoSystem
6. Other: Look up IT Recruiting Agencies