

C1. Good Subarrays (Easy Version)

time limit per test: 1 second
memory limit per test: 256 megabytes

This is the easy version of this problem. In this version, we do not have queries. Note that we have multiple test cases in this version. You can make hacks only if both versions of the problem are solved.

An array b of length m is *good* if for all i the i -th element is greater than or equal to i . In other words, b is *good* if and only if $b_i \geq i$ for all i ($1 \leq i \leq m$).

You are given an array a consisting of n positive integers. Find the number of pairs of indices (l, r) , where $1 \leq l \leq r \leq n$, such that the array $[a_l, a_{l+1}, \dots, a_r]$ is *good*.

Input

Each test contains multiple test cases. The first line contains the number of test cases t ($1 \leq t \leq 2 \cdot 10^5$). Description of the test cases follows.

The first line of each test case contains an integer n ($1 \leq n \leq 2 \cdot 10^5$), the length of the array a .

The second line of each test case contains n space-separated integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq n$), representing the array a .

It is guaranteed that the sum of n over all test cases does not exceed $2 \cdot 10^5$.

Output

For each test case, print the number of suitable pairs of indices.

Example

input	Copy
3 3 1 2 3 3 1 1 1 4 2 1 4 3	
output	Copy
6 3 7	

Note

In the first test case, all subarrays of a are *good*, so all pairs are suitable.

In the second test case, the pairs $(1, 1)$, $(2, 2)$, and $(3, 3)$ are suitable. For example, when $(l, r) = (1, 2)$, the array $b = [1, 1]$ is not *good* because $b_2 < 2$.

Codeforces Round 825 (Div. 2)

Finished

Practice

Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

Submit?

Language: GNU G++20 13.2 (64 bit, win)

Choose file: Choose File No file chosen

Submit

Last submissions

Submission	Time	Verdict
267222702	Jun/24/2024 21:40	Accepted
267220957	Jun/24/2024 21:23	Wrong answer on test 2
266963323	Jun/23/2024 17:36	Wrong answer on test 2

Problem tags

binary search data structures schedules two pointers *1300

No tag edit access

Contest materials

Announcement (en)

Tutorial (en)