

Q. Bulbs

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

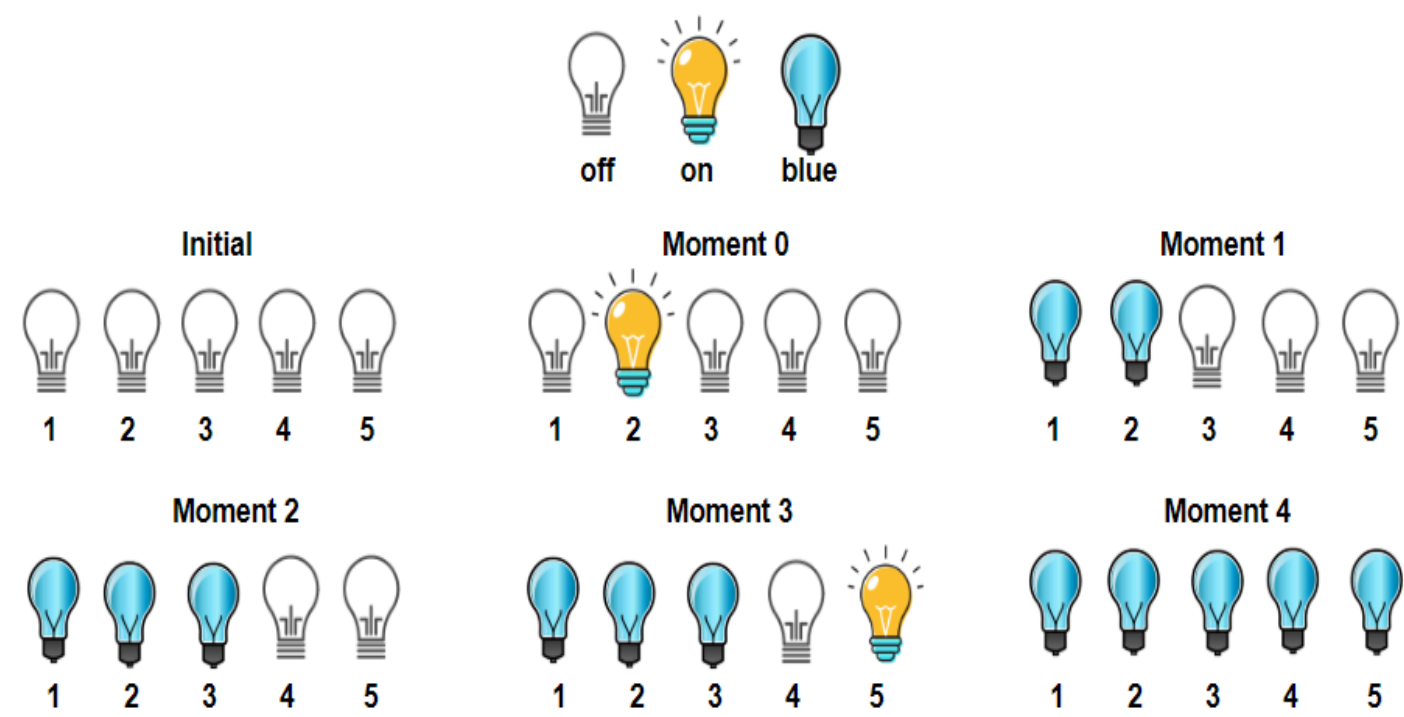
There is a room with n bulbs, numbered from 1 to n , arranged in a row from left to right. Initially, all the bulbs are turned off.

At moment k (for k from 0 to $n - 1$), we turn on the bulb with number $arr[k]$. A bulb change color to blue immediately only if it is on and all the previous bulbs (to the left) are turned on too.

In other words: bulb with number x will change it's color to blue immediately if it is turned on and all bulbs with numbers from 1 to $x - 1$ are turned on.

Print the number of moments in which all turned on bulbs are blue.

First test:



Input
The first line contains an integer n represents the number of bulbs, where $(1 \leq n \leq 10^5)$.
The second line contains n integers represents the array arr
It's guarantee the array arr contains only integers from 1 to n and distinct (no duplicates).

Output
Print the number of moments in which all turned on bulbs are blue.

input	Copy
5 2 1 3 5 4	
output	Copy
3	
input	Copy
5 3 2 4 1 5	
output	Copy
2	
input	Copy
4 4 1 2 3	
output	Copy
1	

Assiut University Training - Newcomers

Public

Participant

★

About Group



ICPC Assiut community

Group website

Group Contests

Sheet #10 (General Hard)

Sheet #9 (General medium)

Sheet #8 (General easy)

Sheet #7 (Recursion)

Sheet #6 (Math - Geometry)

Sheet #5 (Functions)

Sheet #4 (Strings)

Contest #3.1

Sheet #3 (Arrays)

Contest #2

Sheet #2 (Loops)

Contest #1

Sheet #1 (Data type - Conditions)

Sheet #10 (General Hard)

Finished

Practice

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About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the [link](#).

Virtual participation

input

Copy

6
2 1 4 3 6 5

output

Copy

3

input

Copy

6
1 2 3 4 5 6

output

Copy

6

Note
Test 1: All bulbs turned on, are blue at the moment 1, 2 and 4 (index-0).
Test 2: All bulbs turned on, are blue at the moment 3, and 4.
Test 3: All bulbs turned on, are blue at the moment 3, bulb 4th changes to blue at the moment 3.

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

→ Submit?

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

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
212848310	Jul/08/2023 18:07	Accepted
212848148	Jul/08/2023 18:06	Accepted
212784046	Jul/08/2023 10:16	Wrong answer on test 1
212777361	Jul/08/2023 09:26	Accepted

