Q. Bulbs

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output
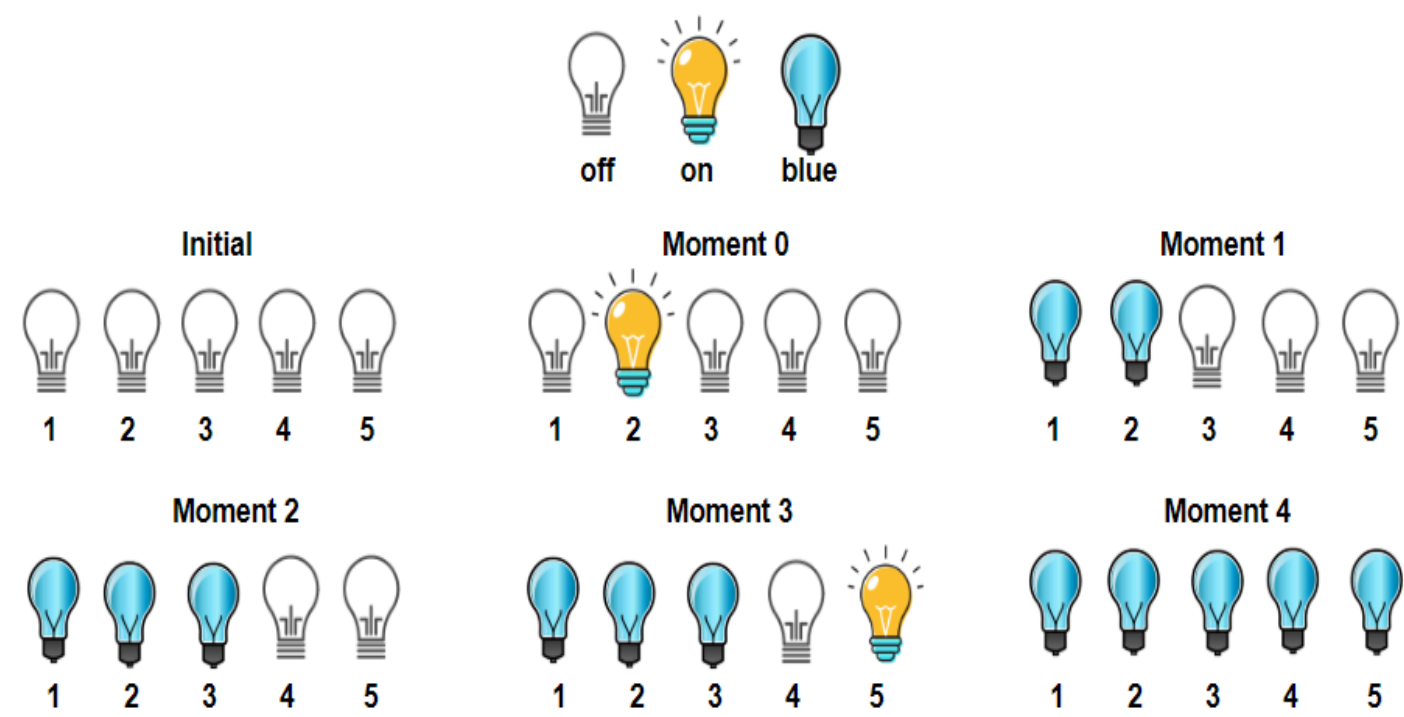
There is a room with n bulbs, numbered from 1 to n, arranged in a row from left to right. Initially, all the bulbs are turned off.

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 $(1 \le n \le 10^5)$.

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.

Examples

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
```

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.

→ 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