

Siraje's OCD

Problem Statement.

Sirajeddine is a victim of Obsessive-Compulsive Disorder (OCD). He wants everything to be always tidy(including arrays). So when he sees an array that is not completely sorted, his OCD activates !

Let's define an "intrusion" as an element that is not in its correct place in the sorted version of the array.

Given N and an array A of numbers of length N , return the number of intrusions. For example, if $N = 3$ and the array $A = [1, 3, 2]$:

The sorted version of the array A will be $[1, 2, 3]$ and thus the number of intrusions will be equal to 2. Because the elements 2 and 3 are not in their correct place.

Input

$$1 \leq N \leq 100$$

$$1 \leq A_i \leq N$$

Output.

Print the number of intrusions in the array.

Examples.

example 1

Input:

```
3
1 3 2
```

Output:

```
2
```