

Beatrice and the Tea party

Problem ID: beatriceteaparty

Beatrice enjoys fine tea and fun parties, and she is having a wonderful tea party with her friends. To make the party more enjoyable, Beatrice comes up with a rule to have her friends change their seats once in a while. The seats are numbered from 1 to n . And each time Beatrice rings a bell, the person who sits at seat i will move to seat p_i . So Beatrice's friends can socialize with different people each time.

But Beatrice's little brother, Brian, messed up p_i . So some of Beatrice's friends might find out that they must move to the same seat. When this happens, the person whose last seat number is the smallest will take the new seat, and the others will sadly leave the party.

Despite this, Beatrice thinks at least some friends will still stick around the party indefinitely. Given the sequence p_i , can you tell Beatrice how many friends will stay?

Input

The first line contains a single number, n , $1 \leq n \leq 10^5$, the number of seats, and the number of friends in the tea party initially. The second line contains n space-separated integers, p_i , $1 \leq p_i \leq n$, as described above.

Output

Output a single integer, the number of friends who will stay indefinitely.

Sample Input 1

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10
1 1 4 5 3 9 10 7 8 9
```

Sample Output 1

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8
```

Sample Input 2

```
6
2 3 4 5 6 6
```

Sample Output 2

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1
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