Alex and Horses

Alex is an avid horse racing fan. He went to watch this year's Kentucky Derby at the United States. He noticed that one segment of the race course was a long straight road. It was impossible for a horse to overtake other horses on this segment. Therefore, a horse had to lower down its speed if there was a slower horse in front of it. While watching the race, Alex started to wonder how many horses were moving at their maximum speed.

Formally, you're given the maximum speed of **N** horses in the order they entered the long straight segment of the race course. Each horse prefers to move at its maximum speed. If that's not possible because of the front horse being slow, it might have to lower its speed. It still moves at the fastest possible speed while avoiding any collisions. For the purpose of this problem, you can assume that the straight segment is infinitely long.

How many horses are there which were moving at their **maximum speed** on the straight segment?

Input Format

The first line of the input contains a single integer **N**, the number of horses. The second line contains **N** space separated integers, denoting the **maximum speed** of the horses in the order they entered the long straight segment.

Constraints

1 ≤ N ≤ 5000

1 ≤ speed of horses ≤ 10000000

Output Format

Output a single line containing the number of horses which were moving at their maximum speed on the segment.

Sample Input 0

```
3
8 3 6
```

Sample Output 0

```
2
```

Explanation 0

Horses 1 and 2 are going at their maximum speeds while the third one is not.

Sample Input 1

```
5
4 5 1 2 3
```

Sample Output 1

```
2
```