



Castle Towers



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Problem

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Eragon is a dragon that is visiting the town of Osaka. There are n towers of various heights in the city, and tower i has height of $height_i$. Because the taller towers tower over the shorter ones, Eragon can only blow out the tallest towers.

For example assume there are four towers of heights 3, 5, 4 and 5. Then Eragon can blow out 2 towers as there are two towers of maximum height 5.

Given the height $height_i$ for each individual tower, find and print the number of towers that Eragon can successfully blow out.

Input Format

The first line contains a single integer, n , denoting the number of towers in the city.

The second line contains n space-separated integers, where each integer i describes the height of tower i .

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq height_i \leq 10^7$

Output Format

Print the number of towers Eragon blows out on a new line.

Sample Input 0

```
4
3 2 1 3
```

Sample Output 0

```
2
```

Explanation 0





As the tallest towers is of height 3 and there are two occurrences, the answer is 2.

Max Score: 100

Difficulty: Easy

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C++



```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 int castleTowers(int n, vector<int> ar) {
6     int max = -1;
7     int cont_max = 0;
8
9     for(int i = 0; i < n; i++) {
10         if(ar[i] > max) {
11             max = ar[i];
12             cont_max = 1;
13         } else if(ar[i] == max) {
14             cont_max++;
15         }
16     }
17     return cont_max;
18 }
19
20 int main() {
21     int n;
22     cin >> n;
23     vector<int> ar(n);
24     for(int ar_i = 0; ar_i < n; ar_i++){
25         cin >> ar[ar_i];
26     }
27     int result = castleTowers(n, ar);
28     cout << result << endl;
29     return 0;
30 }
```

Line: 5 Col: 4

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