

















All Competitions > Performance Optimization > Castle Towers

Castle Towers



Problem

Submissions

Leaderboard

Discussions

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; 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 $m{n}$ space-separated integers, where each integer $m{i}$ describes the height of tower $m{i}$.

Constraints

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

Output Format

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

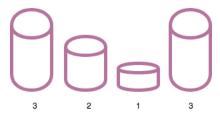
Sample Input 0

4 3 2 1 3

Sample Output 0

2

Explanation 0



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

f ¥ in

Contest ends in 21 hours

Submissions: 2951

Max Score: 100
Difficulty: Easy
Rate This Challenge:
☆☆☆☆☆
More

```
C++
  Current Buffer (saved locally, editable) & • •
                                                                                                                                 *
 1 ▼ #include <bits/stdc++.h>
 3
   using namespace std;
 4 ▼ int castleTowers(int n, vector <int> ar) {
 5
        int max = -1;
 6
        int cont_max =0;
 7
 8 ▼
        for(int i = 0; i < n; i++) {
             if(ar[i] > max) {
 9 ▼
10 ▼
                max = ar[i];
                cont_max=1;
11
             }else if(ar[i] == max) {
12 ▼
13
                  cont_max++;
14
15
        }
16
        return cont_max;
17
    }
18 v int main() {
         int n;
19
         cin >> n;
20
21
         vector<int> ar(n);
22 ▼
         for(int ar_i = 0; ar_i < n; ar_i++){</pre>
23 ▼
             cin >> ar[ar_i];
24
25
         int result = castleTowers(n, ar);
26
         cout << result << endl;</pre>
27
         return 0;
28 }
                                                                                                                        Line: 5 Col: 4
                                                                                                           Run Code
                       Test against custom input
                                                                                                                         Submit Code
1 Upload Code as File
```

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