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Buritomath

Dashboard > Algorithms > Warmup > Birthday Cake Candles

Badge Progress [\(Details\)](#)

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Birthday Cake Candles

by shashank21j

Problem	Submissions	Leaderboard	Discussions	Editorial
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Colleen is turning n years old! She has n candles of various heights on her cake, and candle i has height $height_i$. Because the taller candles tower over the shorter ones, Colleen can only blow out the tallest candles.

Given the $height_i$ for each individual candle, find and print the number of candles she can successfully blow out.

Input Format

The first line contains a single integer, n , denoting the number of candles on the cake.

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

Constraints

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

Output Format

Print the number of candles Colleen blows out on a new line.

Sample Input 0

```
4
3 2 1 3
```

Sample Output 0

```
2
```

Explanation 0

We have one candle of height **1**, one candle of height **2**, and two candles of height **3**. Colleen only blows out the tallest candles, meaning the candles where $height = 3$. Because there are **2** such candles, we print **2** on a new line.

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Submissions: [15518](#)


Max Score: 10

Difficulty: Easy

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C++ 

```

1 #include <map>
2 #include <set>
3 #include <list>
4 #include <cmath>
5 #include <ctime>
6 #include <deque>
7 #include <queue>
8 #include <stack>
9 #include <string>
10 #include <bitset>
11 #include <cstdio>
12 #include <limits>
13 #include <vector>
14 #include <climits>
15 #include <cstring>
16 #include <cstdlib>
17 #include <fstream>
18 #include <numeric>
19 #include <sstream>
20 #include <iostream>
21 #include <algorithm>
22 #include <unordered_map>
23
24 using namespace std;
25
26
27 int main(){
28     int n;
29     cin >> n;
30     vector<int> height(n);
31     int max = 0; int cnt = 0;
32     for(int height_i = 0; height_i < n; height_i++){
33         cin >> height[height_i];
34         if (height[height_i] > max) {
35             max = height[height_i];
36             cnt = 1;
37         } else if (height[height_i] == max) cnt++;
38     }
39     cout << cnt;
40     return 0;
41 }
42

```

Line: 1 Col: 1

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