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# Birthday Cake Candles

locked

by shashank21j

Problem

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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

```
4
3 2 1 3
```

## Sample Output

```
2
```

## Explanation

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: 2831

Max Score: 10

Difficulty: Easy

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★★★★★ Thanks!

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C#

```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         int n = Convert.ToInt32(Console.ReadLine());
9         string[] height_temp = Console.ReadLine().Split(' ');
10        int[] height = Array.ConvertAll(height_temp, Int32.Parse);
```

```
11
12     int max_height = 0;
13     int cont_max = 0;
14     for (int i = 0; i < height.Length; i++)
15     {
16         if (height[i] > max_height)
17         {
18             max_height = height[i];
19             cont_max = 1;
20         }
21         else if (height[i] == max_height)
22         {
23             cont_max++;
24         }
25     }
26
27     Console.WriteLine(cont_max);
28
29 }
30
31 }
```

Line: 20 Col: 14

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

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