


# Breaking the Records

 by bishop15

Problem

Submissions

Leaderboard

Discussions

Maria plays  $n$  games of college basketball in a season. Because she wants to go pro, she tracks her points scored per game sequentially in an array defined as  $score = [s_0, s_1, \dots, s_{n-1}]$ . After each game  $i$ , she checks to see if score  $s_i$  breaks her record for most or least points scored so far during that season.

Given Maria's array of **scores** for a season of  $n$  games, find and print the number of times she breaks her record for *most* and *least* points scored during the season.

**Note:** Assume her records for most and least points at the start of the season are the number of points scored during the first game of the season.

### Input Format

The first line contains an integer denoting  $n$  (the number of games).  
The second line contains  $n$  space-separated integers describing the respective values of  $s_0, s_1, \dots, s_{n-1}$ .

### Constraints

- $1 \leq n \leq 1000$
- $0 \leq s_i \leq 10^8$

### Output Format

Print two space-separated integers describing the respective numbers of times her best (highest) score increased and her worst (lowest) score decreased.

### Sample Input 0

```
9
10 5 20 20 4 5 2 25 1
```

### Sample Output 0

```
2 4
```

### Explanation 0

The diagram below depicts the number of times Maria broke her best and worst records throughout the season:

Game	0	1	2	3	4	5	6	7	8
Score	10	5	20	20	4	5	2	25	1
Highest Score	10	10	20	20	20	20	20	25	25
Lowest Score	10	5	5	5	4	4	2	2	1

She broke her best record twice (after games **2** and **7**) and her worst record four times (after games **1**, **4**, **6**, and **8**), so we print **2 4** as our answer. Note that she *did not* break her record for best score during game **3**, as her score during that game was *not* strictly greater than her best record at the time.

**Sample Input 1**

```
10
3 14 21 36 10 28 35 5 24 42
```

**Sample Output 1**

```
4 0
```

**Explanation 1**

The diagram below depicts the number of times Maria broke her best and worst records throughout the season:

Game	0	1	2	3	4	5	6	7	8	9
Score	3	4	21	36	10	28	35	5	24	42
Highest Score	3	4	21	36	36	36	36	36	36	42
Lowest Score	3	3	3	3	3	3	3	3	3	3

She broke her best record four times (after games **1**, **2**, **3**, and **9**) and her worst record zero times (no score during the season was lower than the one she earned during her first game), so we print `4 0` as our answer.

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Contest ends in 2 days

Submissions: 2973

Max Score: 10

Difficulty: Easy

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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
9         int n = int.Parse(Console.ReadLine());
10        int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
11
12        int max = a[0];
13        int min = a[0];
14        int mayor_max = 0, menor_min = 0;
15        for (int i = 0; i < a.Length; i++)
16        {
17            if (a[i] > max)
18            {
19                max = a[i];
20                mayor_max++;
21            }
22            if (a[i] < min)
23            {
24                min = a[i];
25                menor_min++;
26            }
27        }
28
29        Console.WriteLine(mayor_max + " " + menor_min);
30    }
31 }
```

```
30 |  
31 |}  
32 |
```

Line: 19 Col: 28

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