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‹ **Basic Programming Challenges**

Breaking the Records 🔖

H   by **bishop15**

Problem	Submissions	Leaderboard	Discussions	Editorial

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 $score = [s_0, s_1, \ldots, s_{n-1}]$. 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 $s_0, s_1, \ldots, s_{n-1}$.

Constraints

- $1 \le n \le 1000$

- $0 \le s_i \le 10^8$

Output Format

Print two space-seperated 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 4 21 36 10 28 35 5 24 42
```
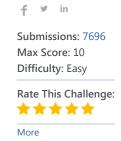
Sample Output 1

```
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.

f   ⌄   in

Submissions: 7696
Max Score: 10
Difficulty: Easy

Rate This Challenge:
★★★★★

More

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```csharp
1  using System;
2  using System.Collections.Generic;
3  using System.IO;
4  using System.Linq;
5  class Solution {
6
7
8
9
10     static void Main(String[] args) {
11         int n = int.Parse(Console.ReadLine());
12         int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
13         int max = a[0];
14         int min = a[0];
15         int mayor_max = 0, menor_min = 0;
16         for (int i = 0; i < a.Length; i++)
17         {
18             if (a[i] > max)
19             {
20                 max = a[i];
21                 mayor_max++;
22             }
23             if (a[i] < min)
24             {
25                 min = a[i];
26                 menor_min++;
27             }
28         }
29         Console.WriteLine(mayor_max + " " + menor_min);
30     }
31 }
```

```
32
```

Line: 19 Col: 14

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

Congrats, you solved this challenge!

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5
✔ Test Case #6	✔ Test Case #7	✔ Test Case #8
✔ Test Case #9	✔ Test Case #10	✔ Test Case #11
✔ Test Case #12	✔ Test Case #13	✔ Test Case #14

Next Challenge

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