



# Breaking the Records

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  $score = [s_0, s_1, \dots, s_{n-1}]$ . 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 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](#) [t](#) [in](#)

Submissions: 28612


Max Score: 10

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

[More](#)

Current Buffer (saved locally, editable)  

Java 8



```
1 import java.util.Scanner;
2
3 public class Solution {
4
5     static int[] getRecord(int[] s) {
6         // Complete this function
7         int[] results = new int[]{0, 0};
8         int high = s[0];
9         int low = s[0];
10
11         for (int i = 0; i < s.length; i++) {
12             if (s[i] > high) {
13                 results[0]++;
14                 high = s[i];
15             }
16             if (s[i] < low) {
17                 results[1]++;
18                 low = s[i];
19             }
20         }
21         return results;
22     }
23
24     public static void main(String[] args) {
25         Scanner in = new Scanner(System.in);
26         int n = in.nextInt();
27         int[] s = new int[n];
28         for (int s_i = 0; s_i < n; s_i++) {
29             s[s_i] = in.nextInt();
30         }
31         int[] result = getRecord(s);
```

```
32     String separator = "", delimiter = " ";
33     for (Integer val : result) {
34         System.out.print(separator + val);
35         separator = delimiter;
36     }
37     System.out.println("");
38 }
39 }
40 }
```

Line: 40 Col: 1

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

Run Code

Submit Code

Testcase 0 ✓

Testcase 1 ✓

**Congratulations, you passed the sample test case.**Click the **Submit Code** button to run your code against all the test cases.**Input (stdin)**

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

**Your Output (stdout)**

```
2 4
```

**Expected Output**

```
2 4
```

Copyright © 2017 HackerRank. All Rights Reserved

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)