Breaking the Records ★

Problem   Submissions   Leaderboard   Editorial 🔒

Maria plays college basketball and wants to go pro. Each season she maintains a record of her play. She tabulates the number of times she breaks her season record for most points and least points in a game. Points scored in the first game establish her record for the season, and she begins counting from there.

Example

$scores = [12, 24, 10, 24]$

Scores are in the same order as the games played. She tabulates her results as follows:

Game	Score	Minimum	Maximum	Count Min	Max
0	12	12	12	0	0
1	24	12	24	0	1
2	10	10	24	1	1
3	24	10	24	1	1

Given the scores for a season, determine the number of times Maria breaks her records for most and least points scored during the season.

Function Description

Complete the breakingRecords function in the editor below.

breakingRecords has the following parameter(s):

- int scores[n]: points scored per game

Returns

- int[2]: An array with the numbers of times she broke her records. Index **0** is for breaking most points records, and index **1** is for breaking least points records.

Input Format

The first line contains an integer n, the number of games.

The second line contains n space-separated integers describing the respective values of $score_0, score_1, \ldots, score_{n-1}$.

Constraints

- $1 \le n \le 1000$
- $0 \le scores[i] \le 10^8$

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.
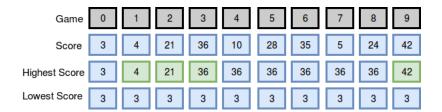
Sample Input 1

```
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.

Change Theme   Language   Python 3

```python
#!/bin/python3

import math
import os
import random
import re
import sys

#
# Complete the 'breakingRecords' function below.
#
# The function is expected to return an INTEGER_ARRAY.
# The function accepts INTEGER_ARRAY scores as parameter.
#

def breakingRecords(scores):
    # Write your code here
    most_cnt, least_cnt = 0, 0
    most_base, least_base = scores[0], scores[0]
```

```
20        for score in scores:
21            if score > most_base:
22                most_cnt += 1
23                most_base = score
24            if score < least_base:
25                least_cnt += 1
26                least_base = score
27        return [most_cnt, least_cnt]
28
29    if __name__ == '__main__':
30        fptr = open(os.environ['OUTPUT_PATH'], 'w')
31
32        n = int(input().strip())
33
34        scores = list(map(int, input().rstrip().split()))
```

EMACS   Line: 42 Col: 1

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

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⊘ **Test case 0**   Compiler Message

⊘ Test case 1   Success

⊘ Test case 2 🔒   Input (stdin)   **Download**

                                1 9
⊘ Test case 3 🔒   2 10 5 20 20 4 5 2 25 1

⊘ Test case 4 🔒   Expected Output   **Download**

                                1 2 4
⊘ Test case 5 🔒

⊘ Test case 6 🔒

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