

# Breaking the Records

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.

For example, assume her scores for the season are represented in the array `points`. Scores are in the same order as the games played. She would tabulate her results as follows:

		Count			
Game	Score	Minimum	Maximum	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, find and print 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. It must return an integer array containing 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.

`breakingRecords` has the following parameter(s):

- `scores`: an array of integers

## 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 `scores`.

## Constraints

- $1 \leq n \leq 10^5$
- $0 \leq \text{scores}[i] \leq 10^9$

Output Format

Print two space-seperated integers describing the respective numbers of times the best (highest) score increased and the 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 7, 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 , , , and ) 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.