# Problem:

Maria plays 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 . After each game, she checks to see if score breaks her record for most or least points scored so far during that season.

Given Maria's array of for a season of 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 (the number of games).

The second line contains space-separated integers describing the respective values of .

#### **Constraints**

#### **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

10 5 20 20 4 5 2 25 1

#### Sample Output 0

24

## **Explanation 0**

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



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

## Sample Input 1

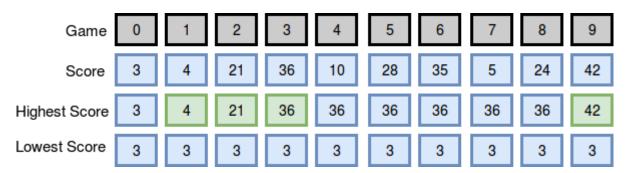
10 3 4 21 36 10 28 35 5 24 42

#### Sample Output 1

40

## **Explanation 1**

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



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.

# Solution:

# int main() {

```
/* Enter your code here. Read input from STDIN. Print output to STDOUT */
int games;
int max=0, min=0;
int breakMax=0, breakMin=0;

cin>>games;
long scores[games];
//long * scores = new long[games];
```

```
/*Feeding the data*/
for(int i=0; i<games; i+=1)</pre>
  { cin>>scores[i];
   if(i==0)
   {
     max=scores[i];
     min=scores[i];
   }
   else
   {
     if(scores[i] > max) { breakMax+=1; max=scores[i]; }
                              //Increement counter if the max score record is broken
     if(scores[i] < min) { breakMin+=1; min=scores[i]; }</pre>
                              //Increement counter if the min score record is broken
   }
  }
cout <<bre>breakMax <<" " <<bre>breakMin;
return 0;
```