Counting problem (4) P55470_en

Given a sequence of n integer numbers $x_1 \ldots x_n$, count how many i's, with $1 \leq i \leq n$, follow the property

$$|\{j : 1 \leq j < i \wedge x_j < x_i\}| = |\{j : 1 \leq j < i \wedge x_j > x_i\}| \ .$$

Input

The input consists of several cases. Each case begins with n, followed by the n integer numbers $x_1 \ldots x_n$. Assume $0 \leq n \leq 10^5$.

Output

For each case, print the number of indices i that fulfill the condition above.

Sample input 1

```
4    2 3 5 7
4    7 2 5 3
3    -7 -7 -7
```

Sample output 1

```
1
2
3
```

Problem information

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