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## Counting problem (4)

P55470\_en

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Given a sequence of  $n$  integer numbers  $x_1 \dots x_n$ , 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  $x_1 \dots x_n$ . Assume  $0 \leq n \leq 10^5$ .

### Output

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

#### Sample input

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

#### Sample output

```
1
2
3
```

### Problem information

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