Counting problem (3) P84639_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

$$|\{j : 1 \leq j < i \wedge x_j > x_i\}| = \lfloor i/2 \rfloor \ .$$

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

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

Sample output

```
1
4
1
```

Problem information

Author : Salvador Roura
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