
How many inversions?**P80595_en**

Count the number of inversions of every given sequence of n integer numbers $x_1 \dots x_n$. Remember that an inversion is a pair of indices i and j such that $1 \leq i < j \leq n$ and $x_i > x_j$.

Input

Input consists of several cases, each one with n followed by the n integer numbers $x_1 \dots x_n$. Assume $0 \leq n \leq 50000$.

Output

For every case, print the number of inversions of the sequence.

Sample input

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

Sample output

```
0
6
0
```

Problem information

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