## How many inversions? P80595_en

Count the number of inversions of every given sequence of $n$ integer numbers $x_1 \ldots x_n$. 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 $x_1 \ldots x_n$. Assume $0 \leq n \leq 50000$.

### Output

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

### Sample input 1

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

### Sample output 1

```
0
6
0
```

### Problem information

Author: Salvador Roura

Generation: 2026-01-25T11:50:32.452Z

© *Jutge.org*, 2006–2026.
https://jutge.org