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## How many inversions?

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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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