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The Virtual Learning Environment for Computer Programming

Counting problem (2)

Given a sequence of *n* integer numbers $x_1 \dots x_n$, count how many *i*'s, with $1 \le i \le n$, follow the property

$$|\{j: 1 \le j \le n \land x_j < x_i\}| = i \ .$$

Input

The input consists of several cases. Each case begins with n, followed by the n integer numbers $x_1 \dots x_n$. Assume $0 \le n \le 10^5$.

Output

4 3 2

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

Sample input

nple input	Sample output
2 3 5 7	0
-7 -7 -7	0
2 1	1

Problem information

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