Counting problem (1) P35849_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

\[
|\{j : 1 \leq j \leq n \land x_j \leq x_i\}| = i .
\]

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

<table>
<thead>
<tr>
<th>Sample output</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 2 3 5 7</td>
</tr>
<tr>
<td>3 -7 -7 -7</td>
</tr>
<tr>
<td>2 2 1</td>
</tr>
</tbody>
</table>

Problem information

Author: Salvador Roura
Generation: 2013-09-02 15:47:29

http://www.jutge.org