## Zeros counter                                                          X79308_en

Write and document an action `zeros_counter` with two parameters, the first one is an input vector $u$ of integers. The second parameter is an output vector $v$ of integers that the action must create having the very same size as $u$. The action has to compute at each position $j$ of vector $v$ the number of zeros of $u$ between position $j$ and the last position, both included. Write also a main program that uses the above action to read a vector and write the number of zeros from each position, as described below.

**Exam score:** 2.500000 **Automatic part:** 0.000000%

### Input

The input is an integer greater than zero $n$ followed by a list of integers of size $n$.

### Output

For each position in the list and from the first to the last, a line with the number of zeros that appear between such position and the last one.

| Sample input 1 | Sample output 1 |
|---|---|
| ```
3
1 0 -1
``` | ```
1
1
0
``` |

| Sample input 2 | Sample output 2 |
|---|---|
| ```
2
0 0
``` | ```
2
1
``` |

### Observation

Try to provide an efficient implementation for action `zeros_counter`.

### Problem information

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