
Decreasing pits

X80481_en

Write a program such that given a sequence of integers greater than zero, counts the number of sequence values satisfying two conditions, (1) they are less than all their predecessors and, (2) they are less than their immediate successor. Note that the first sequence element always satisfies first requirement. For simplicity, we agree that the last element of the sequence does not satisfy condition (2) and therefore has not to be counted.

Exam score: 4.00 **Automatic part:** 40.00%

Input

The input consists of a non-negative integer n followed by a list of n cases. Each case consists of a sequence of integers greater than zero which always has at least one number. Each case ends with the mark zero just after the sequence.

Output

For each case, a line with the number of values in the sequence that meet the conditions described above.

Sample input

```
10
5 3 4 0
5 3 4 2 6 0
5 3 4 2 0
3 4 2 0
1 0
1 2 1 2 0
6 5 6 4 6 3 6 2 6 1 0
2 2 3 0
3 2 1 0
3 3 1 2 2 0
```

Sample output

```
1
2
1
1
0
1
4
0
0
1
```

Observation

It is FORBIDDEN to use vectors

Problem information

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