Accumulation positions (2) X64337_en

We say that a position in a sequence of numbers is an "accumulation position" when the value on that position is the sum of zero or more immediate successor values in the sequence. For example, the sequence 8 1 2 4 0 1 1 has accumulations on the first, fifth and sixth positions. Write a code to count the number of accumulation positions in a sequence. In the previous example the result is three.
Exam score: 3.000000 **Automatic part:** 40.000000%

Input

The input is a list of cases. Each case consists of an integer greater than zero n followed by a sequence of n non-negative integers.

Output

For each case, the number of accumulation positions in the sequence as it is shown in the example.

Sample input

```
7
8 1 2 4 0 1 1
10
3 1 2 3 1 1 0 1 3 0
8
3 4 1 3 2 1 0 1
```

Sample output

```
3
6
5
```

Problem information

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