Score Calculation

Description

An OX (true or false) problem is a problem that has just two cases, right or wrong answer.

A student is tested with a series of OX problems. The score of the student is calculated in such a way that:

1. The student is awarded one point for each correct answer
2. If the student answers correctly for consecutive questions, the student is awarded additional points
3. The ***k***-1 additional points are given for ***k***th consecutive correct answer, so the student is awarded a total of ***k*** points for the question answered.
4. The student is awarded zero points for each wrong answer.

Ex)

Grading	O	X	O	O	O	X	X	O	O	X
Score	1	0	1	2	3	0	0	1	2	0

Find the total score of the student.

Input

Your program is to read from standard input. In the first line of input you are given an integer T, number of test cases. For each test case, you are given the number of OX questions given for the student ***N*** in the first line ($1 \le N \le 100$). In the next line, you are given the result of grading, each separated by a space. 1 will be given for correct answer and 0 will be given for a wrong answer.

Output

Your program is to write to standard output. For each test case, print the total score of the student on a single line.

Sample

Input	Output
2 10 1 0 1 1 1 0 0 1 1 0 5 1 1 1 0 1	10 7