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The Virtual Learning Environment for Computer Programming

Allowance (2) Control 1, GRAU-PRO1, FIB (2014-10-06)

You have saved *n* euros. Additionally, every Monday of the next *t* weeks, you will be given a weekly allowance of $a_1, a_2, ..., a_t$ euros, respectively. Every week, you have a fixed amount of expenses that sums up to *d* euros.

Write a program that counts how many weeks you end up with a strictly positive balance.

Input

The input consists of three naturals $d \ge 0$, $n \ge 0$ and t > 0, which represent fixed weekly expenses, the initial savings, and the number of weeks with allowance, respectively.

Following, there are the quantities corresponding to the *t* weekly allowances $a_1, ..., a_t$. Every week allowance is a natural number $a_i \ge 0$.

Output

The output is a natural number indicating the number of weeks which end up with a strictly positive balance, after paying the weekly expenses.

Your program must meet the output format described in the examples an it should follow a right programming style. You may also decide to include comments, if appropriate.

Sample input 1	Sample output 1
10 100 5 70 10 10 10 10	5
Sample input 2	Sample output 2
90 50 3 100 10 10	1
Sample input 3	Sample output 3
0 0 2 15 15	2
Sample input 4	Sample output 4
10 100 1 0	1

Sample input 5

10 100 1 0

Problem information

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Sample output 5

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