



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP DELTIX ROUNDS 2021 🛣

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Strange Table

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Polycarp found a rectangular table consisting of n rows and m columns. He noticed that each cell of the table has its number, obtained by the following algorithm "by columns":

- · cells are numbered starting from one;
- cells are numbered from left to right by columns, and inside each column from top to bottom:
- number of each cell is an integer one greater than in the previous cell.

For example, if n=3 and m=5, the table will be numbered as follows:

1 4 7 10 13 2 5 8 11 14 3 6 9 12 15

However, Polycarp considers such numbering inconvenient. He likes the numbering "by rows":

- cells are numbered starting from one;
- cells are numbered from top to bottom by rows, and inside each row from left to right;
- number of each cell is an integer one greater than the number of the previous cell.

For example, if n=3 and m=5, then Polycarp likes the following table numbering:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Polycarp doesn't have much time, so he asks you to find out what would be the cell number in the numbering "by rows", if in the numbering "by columns" the cell has the number x?

Input

The first line contains a single integer t ($1 \le t \le 10^4$). Then t test cases follow.

Each test case consists of a single line containing three integers n, m, x ($1 \le n, m \le 10^6$, $1 \le x \le n \cdot m$), where n and m are the number of rows and columns in the table, and x is the cell number.

Note that the numbers in some test cases do not fit into the 32-bit integer type, so you must use at least the 64-bit integer type of your programming language.

Output

For each test case, output the cell number in the numbering "by rows".

Example

input	Сору
5	
1 1 1	
2 2 3	
3 5 11	
100 100 7312	

Codeforces Round #710 (Div. 3)

Finished

→ Virtual participation

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Start virtual contest

→ Problem tags

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math	*800		
			No tag edit access

→ Contest materials

- Announcement
- Tutorial



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