

Input

First line of the input contains an integer T denoting the number of test cases. T test cases follow.

Only line of each test case contains three space separated integers n, m, c.

Output

For each test case, output a single line containing the answer for the test case.

Constraints

- 1 ≤ T ≤ 100
- $1 \le n, m \le 10^6$
- $1 \le c \le 10^6$

Subtasks

- Subtask #1: (40 points) $1 \le n, m \le 100, 1 \le c \le 10^4$
- Subtask #2: (60 points) original constraints

Example

Input:

4 6 12 3 3 10

Output:

Explanation

Test case 1. Possible pairs of dimensions are (2, 6), (3, 4) and (4, 3). Note that the rectangular section of dimension (1, 12) can't be painted as it can't fit into the screen, because 12 > 6.

Test case 2. There does not exist any rectangle of desired dimensions which can have 10 different pixels painted.

All submissions for this problem are available. Author: <u>berezin</u> 7★ <u>alex 2008</u> Tester: https://discuss.codechef.com/problems/CHEFKEY Editorial: berezin, cakewalk, factorization, looping, oct16 Tags: 30-10-2014 Date Added: Time Limit: 1 secs Source Limit: 50000 Bytes CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYP3, Languages: TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, ASM, FORT, FS, LISP clisp, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, SCM qobi, ST, NEM

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CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, computer programming, and programming contests. At CodeChef we work hard to revive the geek in you by hosting a programming contest at the start of the month and two smaller programming challenges at the middle and end of the month. We also aim to have training sessions and discussions related to algorithms, binary search, technicalities like array size and the likes. Apart from providing a platform for programming competitions, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of computer programming.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in the language of your choice. Our programming contest judge accepts solutions in over 55+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple programming challenges that take place through-out the month on CodeChef.

Compete - Monthly Programming Contests, Cook-off and Lunchtime

FAQ's

Here is where you can show off your computer programming skills. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime coding contests. Put yourself up for recognition and win great prizes. Our programming contests have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

Programming Tools	Practice Problems	<u>Initiatives</u>	<u>Policy</u>
Online IDE	<u>Easy</u>	Go for Gold	Terms of Service
<u>Upcoming Coding Contests</u>	<u>Medium</u>	CodeChef for Schools	Privacy Policy
Contest Hosting	<u>Hard</u>	College Chapters	Refund Policy
Problem Setting	<u>Challenge</u>	CodeChef for Business	Code of Conduct
CodeChef Tutorials	<u>Peer</u>		Bug Bounty Program
CodeChef Wiki	School		