



HONORCUP W CALENDAR HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

### A. Pens and Pencils

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Tomorrow is a difficult day for Polycarp: he has to attend a lectures and b practical classes at the university! Since Polycarp is a diligent student, he is going to attend all of them.

While preparing for the university, Polycarp wonders whether he can take enough writing implements to write all of the lectures and draw everything he has to during all of the practical classes. Polycarp writes lectures using a pen (he can't use a pencil to write lectures!); he can write down c lectures using one pen, and after that it runs out of ink. During practical classes Polycarp draws blueprints with a pencil (he can't use a pen to draw blueprints!); one pencil is enough to draw all blueprints during d practical classes, after which it is unusable.

Polycarp's pencilcase can hold no more than k writing implements, so if Polycarp wants to take x pens and y pencils, they will fit in the pencilcase if and only if  $x+y\leq k$ .

Now Polycarp wants to know how many pens and pencils should he take. Help him to determine it, or tell that his pencilcase doesn't have enough room for all the implements he needs tomorrow!

Note that you don't have to minimize the number of writing implements (though their total number must not exceed k).

The first line of the input contains one integer t ( $1 \le t \le 100$ ) — the number of test cases in the input. Then the test cases follow.

Each test case is described by one line containing five integers a, b, c, d and k, separated by spaces  $(1 \le a, b, c, d, k \le 100)$  — the number of lectures Polycarp has to attend, the number of practical classes Polycarp has to attend, the number of lectures which can be written down using one pen, the number of practical classes for which one pencil is enough, and the number of writing implements that can fit into Polycarp's pencilcase, respectively.

**In hacks** it is allowed to use only one test case in the input, so t=1 should be satisfied.

## Output

For each test case, print the answer as follows:

If the pencilcase can't hold enough writing implements to use them during all lectures and practical classes, print one integer -1. Otherwise, print two non-negative integers x and y the number of pens and pencils Polycarp should put in his pencilcase. If there are multiple answers, print any of them. Note that you don't have to minimize the number of writing implements (though their total number must not exceed k).

### Example



#### Note

There are many different answers for the first test case; x = 7, y = 1 is only one of them. For example, x = 3, y = 1 is also correct.

x=1, y=3 is the only correct answer for the third test case.

# Codeforces Round #592 (Div. 2)

#### **Finished**

**Practice** 



### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

#### → Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

#### → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



Language: GNU G++11 5.1.0

Choose

选择文件 未选择任何文件

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

#### → Problem tags

math \*700

No tag edit access

#### → Contest materials

- Announcement #1 (en)
- Announcement #2 (ru)

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