

A. Serval and Bus

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

It is raining heavily. But this is the first day for Serval, who just became 3 years old, to go to the kindergarten. Unfortunately, he lives far from kindergarten, and his father is too busy to drive him there. The only choice for this poor little boy is to wait for a bus on this rainy day. Under such circumstances, the poor boy will use the first bus he sees no matter where it goes. If several buses come at the same time, he will choose one randomly.

Serval will go to the bus station at time t , and there are n bus routes which stop at this station. For the i -th bus route, the first bus arrives at time s_i minutes, and each bus of this route comes d_i minutes later than the previous one.

As Serval's best friend, you wonder which bus route will he get on. If several buses arrive at the same time, you can print any of them.

Input

The first line contains two space-separated integers n and t ($1 \leq n \leq 100$, $1 \leq t \leq 10^5$) — the number of bus routes and the time Serval goes to the station.

Each of the next n lines contains two space-separated integers s_i and d_i ($1 \leq s_i, d_i \leq 10^5$) — the time when the first bus of this route arrives and the interval between two buses of this route.

Output

Print one number — what bus route Serval will use. If there are several possible answers, you can print any of them.

Examples

input

Copy

2 2
6 4
9 5

output

Copy

1

input

Copy

5 5
3 3
2 5
5 6
4 9
6 1

output

Copy

3

input

Copy

3 7
2 2
2 3
2 4

output

Copy

1

Note

In the first example, the first bus of the first route arrives at time 6, and the first bus of the second route arrives at time 9, so the first route is the answer.

Codeforces Round #551 (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 ACM-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

→ Submit?

Language: GNU G++11 5.1.0

Choose file:

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

→ Last submissions

Submission	Time	Verdict
52734984	Apr/14/2019 09:06	Accepted
52685610	Apr/13/2019 17:12	Accepted

→ Problem tags

brute force math *1100

No tag edit access

→ Contest materials

In the second example, a bus of the third route arrives at time 5, so it is the answer.

In the third example, buses of the first route come at times 2, 4, 6, 8, and so fourth, buses of the second route come at times 2, 5, 8, and so fourth and buses of the third route come at times 2, 6, 10, and so on, so 1 and 2 are both acceptable answers while 3 is not.

- Announcement (en)
- Tutorial (en)

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