



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

D. Mysterious Present

time limit per test: 1 second memory limit per test: 64 megabytes

Peter decided to wish happy birthday to his friend from Australia and send him a card. To make his present more mysterious, he decided to make a *chain*. Chain here is such a sequence of envelopes $A = \{a_1, a_2, ..., a_n\}$, where the width and the height of the i-th envelope is strictly higher than the width and the height of the (i-1)-th envelope respectively. Chain size is the number of envelopes in the chain.

Peter wants to make the chain of the maximum size from the envelopes he has, the chain should be such, that he'll be able to put a card into it. The card fits into the chain if its width and height is lower than the width and the height of the smallest envelope in the chain respectively. It's forbidden to turn the card and the envelopes.

Peter has very many envelopes and very little time, this hard task is entrusted to you.

Input

The first line contains integers n, w, h ($1 \le n \le 5000$, $1 \le w$, $h \le 10^6$) — amount of envelopes Peter has, the card width and height respectively. Then there follow n lines, each of them contains two integer numbers w_i and h_i — width and height of the i-th envelope ($1 \le w_i$, $h_i \le 10^6$).

Output

In the first line print the maximum chain size. In the second line print the numbers of the envelopes (separated by space), forming the required chain, starting with the number of the smallest envelope. Remember, please, that the card should fit into the smallest envelope. If the chain of maximum size is not unique, print any of the answers.

If the card does not fit into any of the envelopes, print number 0 in the single line.

Examples

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Сору

Codeforces Beta Round 4 (Div. 2 Only) Finished



→ 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

ightarrow Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?			
Language:	GNU G++23 14.2 (64 bit, ms ➤		
Choose file:	Choose File No file chosen		
	Submit		

→ Last submissions			
Submission	Time	Verdict	
322992061	Jun/05/2025 15:27	Accepted	



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