

D1. Too Many Segments (easy version)

time limit per test: 1 second  
memory limit per test: 256 megabytes

The only difference between easy and hard versions is constraints.

You are given  $n$  segments on the coordinate axis  $OX$ . Segments can intersect, lie inside each other and even coincide. The  $i$ -th segment is  $[l_i; r_i]$  ( $l_i \leq r_i$ ) and it covers all integer points  $j$  such that  $l_i \leq j \leq r_i$ .

The integer point is called **bad** if it is covered by **strictly more** than  $k$  segments.

Your task is to remove the minimum number of segments so that there are no **bad** points at all.

Input

The first line of the input contains two integers  $n$  and  $k$  ( $1 \leq k \leq n \leq 200$ ) — the number of segments and the maximum number of segments by which each integer point can be covered.

The next  $n$  lines contain segments. The  $i$ -th line contains two integers  $l_i$  and  $r_i$  ( $1 \leq l_i \leq r_i \leq 200$ ) — the endpoints of the  $i$ -th segment.

Output

In the first line print one integer  $m$  ( $0 \leq m \leq n$ ) — the minimum number of segments you need to remove so that there are no **bad** points.

In the second line print  $m$  **distinct** integers  $p_1, p_2, \dots, p_m$  ( $1 \leq p_i \leq n$ ) — indices of segments you remove in any order. If there are multiple answers, you can print any of them.

Examples

input

Copy

7 2  
11 11  
9 11  
7 8  
8 9  
7 8  
9 11  
7 9

output

Copy

3  
1 4 7

input

Copy

5 1  
29 30  
30 30  
29 29  
28 30  
30 30

output

Copy

3  
1 2 4

input

Copy

6 1  
2 3  
3 3  
2 3  
2 2  
2 3  
2 3

output

Copy

4  
1 3 5 6

Codeforces Round 595 (Div. 3)

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

Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

Submit?

Language: GNU G++20 13.2 (64 bit, win)

Choose file: Choose File No file chosen

Submit

Last submissions

Submission	Time	Verdict
323259869	Jun/07/2025 17:18	Accepted

Problem tags

greedy \*1800

No tag edit access

Contest materials

Announcement

Tutorial