

Task alone

# **Alone**

Stofl participates in a camp. Before the camp starts some camp mice already know each other, but others do not.

Find the mice who do not yet know anyone.

#### Input

The first line of input contains one integer N, the number of mice, and an integer M, the number of connections before the camp. The next M lines contain connections.

## **Output**

On the first line print the number of mice that do not yet know anyone.

On the second line, print an ascending list with indices of those mice.

*Warning*: As the second line might be empty, you really have to print *two* lines and terminate *both* of them with a newline '\n'.

#### Limits

The tests contain 4 test groups, each worth 25 points.

- In test group 1 we have  $1 \le N \le 10$  and  $0 \le M \le 10$ .
- In test group 2 we have  $1 \le N \le 100$  and  $0 \le M \le 100$ .
- In test group 3 we have  $1 \le N \le 1000$  and  $0 \le M \le 1000$ .
- In test group 4 we have  $1 \le N \le 2000$  and  $0 \le M \le 10000$ .

### **Examples**

Input	Output
4 1	2
1 3	0 2

Input	Output
5 6	0
0 1	
1 2	
2 3	
3 4	
4 0	
2 4	