



# 杭州电子科技大学

## HANGZHOU DIANZI UNIVERSITY



Online Judge

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**Time Limit: 6000/3000 MS (Java/Others)**   **Memory Limit: 32768/32768 K (Java/Others)**  
**Total Submission(s): 0**   **Accepted Submission(s): 0**  
Special Judge

### Problem Description

The Wall has down and the King in the north has to send his soldiers to sentinel.

The North can be regard as a undirected graph (not necessary to be connected), one soldier can cover one path. Today there's no so many people still breathing in the north, so the King wants to minimize the number of soldiers he sent to cover each edge exactly once. As a master of his, you should tell him how to arrange soldiers.

### Input

There might be multiple test cases, no more than 20. You need to read till the end of input.

In the first line, two integers  $n$  and  $m$ , representing the number of nodes and edges in the graph.

In the following  $m$  lines, each contain two integers, representing two ends of an edge.

There are no parallel edges or self loops.

$1 \leq n, m \leq 100000$

### Output

For each test case, the first line contains number of needed routes,  $p$ .

For the following  $p$  lines, an integer  $x$  in the beginning, followed by  $x$  integers, representing the list of used edges. Every integer should be a positive or negative integer. Its absolute value represents the number of chosen edge ( $1 \sim n$ ). If it's positive, it shows that this edge should be passed as the direction as the input, otherwise this edge should be passed in the direction different from the input. Edges should be in correct order.

### Sample Input

```
3 3
1 2
1 3
2 3
```

### Sample Output

```
1
3 1 3 -2
```

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