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## Problem I FRIENDS

There is a town with N citizens. It is known that some pairs of people are friends. According to the famous saying that "The friends of my friends are my friends, too" it follows that if A and B are friends and B and C are friends then A and C are friends, too.

Your task is to count how many people there are in the largest group of friends.

## Input

The first line of the input consists of N and M, where N is the number of town's citizens  $(1 \le N \le 30000)$  and M is the number of pairs of people  $(0 \le M \le 500000)$ , which are known to be friends. Each of the following M lines consists of two integers A and B  $(1 \le A \le N, 1 \le B \le N, A \ne B)$  which describe that A and B are friends. There could be repetitions among the given pairs.

## **Output**

The output should contain one number denoting how many people there are in the largest group of friends.

Sample Input	Sample Output
2	3
3 2	6
1 2	
2 3	
10 12	
1 2	
3 1	
3 4	
5 4	
3 5	
4 6	
5 2	
2 1	
7 10	
1 2	
9 10	
8 9	

**Problem source: Bulgarian National Olympiad in Informatics 2003** 

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