## Message Delivery

Time Limit: 2 Seconds Memory Limit: 2048 MB

Professor Mattox wants to deliver an important message to all students in his algorithm class. The students are connected through a network of one-directional message delivery relationships. If student A delivers the message to student B, then B will receive the message, but B may not deliver the message back to A unless there is another explicit relationship from B to A.

Given the network of students and their one-directional delivery relationships, help Professor Mattox determine the **minimum number of students** he needs to tell the message directly so that all students in the class eventually receive the message. It is guaranteed that no students deliver to himself or herself.

## Input

The first line contains a integer T, which represents the number of testcases below.

In each of the testcase, the first line contains two integers: n (the number of students) and m (the number of one-directional delivery relationships).

The next m lines each contain two integers: b e, representing a one-directional delivery relationship from student b to student e.

The constraints are:

- T the number of testcases,  $1 \le T \le 100$
- $2 \le n \le 2 \times 10^5$ : The number of students is between 2 and  $2 \times 10^5$ . Assuming there are multiple testcases, the sum of n's is guanteed to go below  $2 \times 10^5$ .
- $0 \le m \le 2 \times 10^5$ : The number of delivery relationships is between 0 and  $2 \times 10^5$ .
- Students are numbered from 0 to n-1.
- Delivery relationships can include self-loops (e.g., b = e) and duplicate relationships.

## Output

Output a single integer: the **minimum number of students** Professor Mattox needs to tell directly so that all students in the class eventually receive the message.

Sample Inputs	Sample Outputs
1	2
5 5	
0 1	
1 2	
2 0	
3 4	
4 3	

In the sample input: - The students form two strongly connected components:  $\{0,1,2\}$  and  $\{3,4\}$ . - Professor Mattox can tell the message directly to student 0 and student 3. - Student 0 will deliver the message to