

# I. Pom Gana

Score: 1

CPU: 1s

Memory: 1024MB

This year the ACM ICPC World Final will be hosted by the country of Gana, which is popular for its weird road system. Gana consists of **N** city and **M** roads. All the roads in the country are unidirectional. That's why people often get stuck in some dead end cities and had to use a helicopter to return from there. In Gana, those cities are called Pom city. A city **X** is a Pom city if a person starts his/her journey from **X**, he/she cannot return to **X** again using one or more roads.

So the ACM ICPC headquarter wanted to know how many Pom city are there in Gana.

## Input

First line of the input contains a single integer **T** ( $\leq 100$ ), the number of test cases to follow.

First line of each test case contains space- separated integers **N** and **M** ( $1 \leq N \leq 100$ ,  $0 \leq M \leq N * N$ ), the number of cities and roads respectively. Next **M** lines will contain two space-separated integers **U** and **V** ( $1 \leq U, V \leq N$ ,  $U \neq V$ ), such that there is a unidirectional road from city **U** to city **V**.

## Output

For each test case, print the test case number and number of Pom city in Gana.

## Sample

Input	Output
2	Case 1: 1
4 4	Case 2: 0
1 2	
2 3	
3 1	
1 4	
4 5	
1 2	
2 3	
3 1	
1 4	
4 1	