
 PEKING UNIVERSITY JUDGE ONLINE FOR ACM/ICPC			
Online Judge	Problem Set	Authors	Online Contests	User
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Going from u to v or from v to u?				Language: <input type="text" value="Default"/>
Time Limit: 2000MS		Memory Limit: 65536K		
Total Submissions: 18395		Accepted: 4946		

Description

In order to make their sons brave, Jiajia and Wind take them to a big cave. The cave has n rooms, and one-way corridors connecting some rooms. Each time, Wind choose two rooms x and y , and ask one of their little sons go from one to the other. The son can either go from x to y , or from y to x . Wind promised that her tasks are all possible, but she actually doesn't know how to decide if a task is possible. To make her life easier, Jiajia decided to choose a cave in which every pair of rooms is a possible task. Given a cave, can you tell Jiajia whether Wind can randomly choose two rooms without worrying about anything?

Input

The first line contains a single integer T , the number of test cases. And followed T cases.

The first line for each case contains two integers n, m ($0 < n < 1001, m < 6000$), the number of rooms and corridors in the cave. The next m lines each contains two integers u and v , indicating that there is a corridor connecting room u and room v directly.

Output

The output should contain T lines. Write 'Yes' if the cave has the property stated above, or 'No' otherwise.

Sample Input

1
3 3
1 2
2 3
3 1

Sample Output

Yes

Source

POJ Monthly--2006.02.26,zgl & twb

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