

Planar Graph

Time Limit 1 sec/Memory Limit 256 MB

Yomo loves planar graph, so he wants you to help him check whether the Graph is planar.

He will give you Q queries.

Input Format

- The first line contains one integers Q , which mean there are Q queries.
- For each queries, the first line contains 2 integers, n and m , which mean the number of vertices and the number of edges.
- The next m lines all contain 2 integers, x_i and y_i , which imply that there is an edge connection between vertex x_i and vertex y_i

Output format

- If the graph is planar, then output "Yes", otherwise output "No".

Constraints

- $1 \leq Q \leq 5$
- $1 \leq n \leq 12$
- $1 \leq m \leq 15$

sample input #1	sample output #1
2	No
6 10	Yes
2 6	
2 5	
2 3	
2 4	
3 4	
3 6	
3 5	
4 5	
4 6	
5 6	
6 10	
1 6	
1 5	
2 6	
2 4	
2 3	
3 4	
3 5	
4 6	
4 5	
5 6	