k-edge Connected

In graph theory, a graph is *k*-edge-connected if it remains connected whenever fewer than *k* edges are removed. Given an undirected graph find if it is 2-edge-connected or not.

Input:
First Line of the input will contain ***T*** representing the number of test cases.
First line of each test case will contain two space separated integers ***V*** and ***E*** representing ***Number of Vertices*** and ***Number of Edges*** respectively.
Next ***E*** lines will contain space separate integers representing vertices which possess an edge in between them.

Vertices will be labeled starting from 1. For example if V=5, the set of vertices is {1,2,3,4,5}

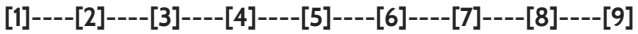
Output:
Output a single string "**YES**" or **"NO"** for each test case.

Constraints:
$1 \leq T \leq 100$
$2 \leq \mathbf{V} \leq 1000$
$0 \leq \mathbf{E} \leq ((V^*(V-1))/2)$

Sample Input
2
9 8
1 2
2 3
3 4
4 5
5 6
6 7
7 8
8 9
4 6
1 2
1 3
1 4
2 3
3 4
2 4

Sample Output
NO
YES

Explanation
On interpreting the input and constructing the graph we get:
#1:



#2: