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Problem: Week 5 - Hamiton Cycle

Description

Given an undirected graph G = (V,E). Write a program to check if G is a Hamiltonian graph.

Input

- Line 1: a positive integer T (number of graphs)
- Subsequent lines are information about T graphs, each has the following format:
 - Line 1: n and m (number of nodes and edges)
 - Line i+1 (i = 1, 2, ..., m): u and v: two end points of the ith edge

Output

• In the ith line, write 1 if the corresponding is a Hamiltonian graph, and write 0, otherwise

Example

Input

2

5 5

12

13

2 4

2 5

3 5

7 13

. _

13

15

17

2 4

2 5

2 6

3 4

3 5

3 7

46

47

5 7

67

Output

0

1

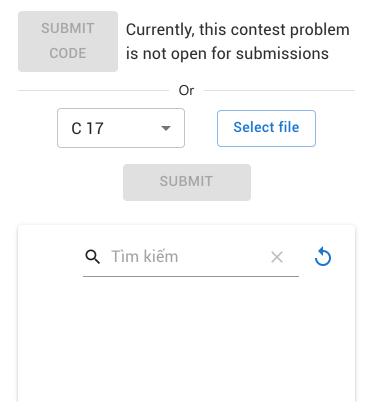
Sample TestCase

C 17

1 Write your Source code here

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Source code 1 //C 2 #include <stdio.h> 3 4 int main() 5 { 6 7 }



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