



# Unicyclic components

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✓ Points: 100 (partial)② Time limit: 1.0s

**■ Memory limit:** 256M

**→** Allowed languages

C, C++

You are given an undirected graph with n vertices numbered 1 to n and m edges numbered 1 to m. Edge i connects vertex  $u_i$  and vertex  $v_i$ .

Determine whether every connected component in this graph satisfies the following condition:

• The connected component has the same number of vertices and edges

#### **Input Format**

The first line of input contains two integers n and m denoting the number of vertices and edges respectively.

The following m lines have two integers u and v each, denoting an edge between these nodes.

#### **Constraints**

$$1 \leq n \leq 200,000$$

$$0 \leq m \leq 200,000$$

$$1 \leq u_i \leq v_i \leq n$$

**NOTE**: The input graph need **not** be a *simple graph*. Therefore, there can be multi-edges (more than one edge between two nodes) and self-loops (edges from a node to itself).

### **Output Format**

If every connected component satisfies the condition, print Yes. Otherwise, print No. (Case sensitive)

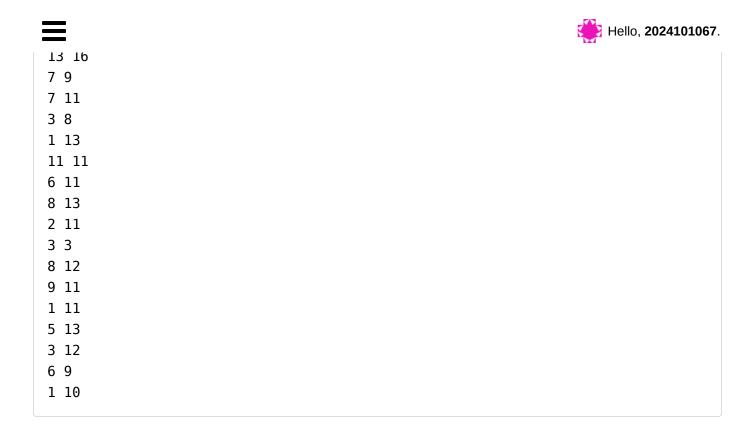
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Hello, <b>2024101067</b>	
3 3 2 3 1 1 2 3	Сору
Output:	
Yes	Сору
Explanation:	
The graph has a connected component formed from just vertex 1, and another formed from vertices 2 are The former has one edge (edge number 2), and the latter has two edges (edge numbers 1 and 3), satisfy the condition.  Sample Test Case 1:	
Input:	
<ul> <li>5 5</li> <li>1 2</li> <li>2 3</li> <li>3 4</li> <li>3 5</li> <li>1 5</li> </ul>	Сору
Output:	
Yes	Сору
Sample Test Case 2:	
Input:	

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## **Output:**

No

# Clarifications

Request clarification

No clarifications have been made at this time.

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