

Contest Duration: 2025-05-03(Sat) 22:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250503T2100&p1=248>) - 2025-05-03(Sat) 23:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250503T2240&p1=248>) (local time) (100 minutes)

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C - Cycle Graph?

[Editorial \(/contests/abc404/tasks/abc404_c/editorial\)](#)



Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

Problem Statement

You are given a simple undirected graph with N vertices and M edges. The vertices are numbered $1, 2, \dots, N$ and the edges are numbered $1, 2, \dots, M$. Edge i connects vertices A_i and B_i .

Determine whether this graph is a cycle graph.

► [Definition of simple undirected graph](#)

► [Definition of cycle graph](#)

Constraints

- $3 \leq N \leq 2 \times 10^5$
- $0 \leq M \leq 2 \times 10^5$
- $1 \leq A_i, B_i \leq N$
- The given graph is simple.
- All input values are integers.

Input

The input is given from Standard Input in the following format:

```
N M  
A1 B1  
:  
AM BM
```

Output

Output Yes if the given graph is a cycle graph; otherwise, print No.

Sample Input 1

Copy

```
4 4  
2 4  
3 1  
4 1  
2 3
```

Copy

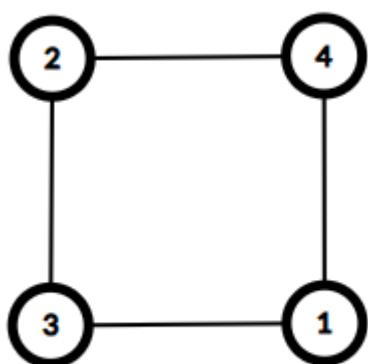
Sample Output 1

Copy

```
Yes
```

Copy

The given graph is as follows, and this is a cycle graph.



Sample Input 2

Copy

2026-01-02 (Fri)
05:23:13 +11:00

```
4 6
1 2
1 3
1 4
2 3
2 4
3 4
```

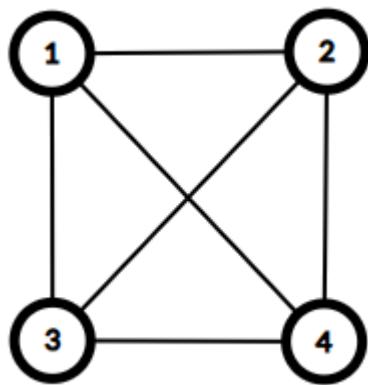
Sample Output 2

[Copy](#)

No

[Copy](#)

The given graph is as follows, and this is not a cycle graph.



'#telegram)

:url=https%3A%2F%2Fatcoder.jp%2Fcontests%2Fabc404%2Ftasks%2Fabc404_c%3Flang%3Den&title=C%20-

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