Contest Duration: 2025-05-03(Sat) 08:00 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250503T2100&p1=248) - 2025-05-03(Sat) 09:40 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20250503T2240&p1=248) (local time) (100 minutes) Back to Home (/home)

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C - Cycle Graph? Editorial (/contests/abc404/tasks/abc404_c/editorial)

/ ##

Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 300 points

Problem Statement

You are given a simple undirected graph with N vertices and M edges. The vertices are numbered $1, 2, \ldots, N$ and the edges are numbered $1, 2, \ldots, M$. 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

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

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Input

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

Output

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

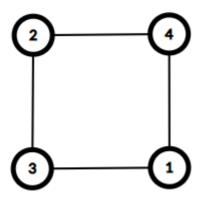
Sample Input 1 Copy

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

Sample Output 1 Copy



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



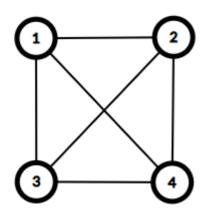
Sample Input 2 Copy

2025-05-04 (Sun) 14:36:18 -04:00 Copy 4 6
1 2
1 3
1 4
2 3
2 4
3 4

Sample Output 2 Copy



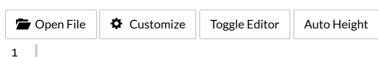
The given graph is as follows, and this is not a cycle graph.



Language

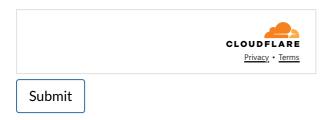
Python (CPython 3.11.4)

Source Code



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- * at most 512 KiB
- * Your source code will be saved as Main. extension.



#telegram)

 $url = https\%3A\%2F\%2F atcoder.jp\%2F contests\%2F abc404\%2F tasks\%2F abc404_c\%3F lang\%3D en\&title = C\%20-lang\%3D en\&title = C\%2$

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