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Tree No Tree

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Problem

Submissions

Leaderboard

Discussions

A graph is collection of two sets V and E where V is a finite non-empty set of vertices and E is a finite non-empty set of edges.

- Vertices are nothing but the nodes in the graph.
- Two adjacent vertices are joined by edges.
- Any graph is denoted as $G = \{V, E\}$.

A tree is a finite set of one or more nodes such that –

- There is a specially designated node called root.
- The remaining nodes are partitioned into $n \geq 0$ disjoint sets $T_1, T_2, T_3, \dots, T_n$
- where $T_1, T_2, T_3, \dots, T_n$ is called the subtrees of the root.

Given an undirected graph, specified as edges between two vertices, check whether it's a Tree or not a Tree.

Input Format

The first line of the input file contains two integers N and M , number of nodes and number of edges in the graph. Next M lines contain M edges of that graph. Each line contains a pair (u, v) means there is an edge between node u and node v .

Constraints

- $0 < N \leq 10000$
- $0 \leq M \leq 20000$
- $1 \leq u, v \leq N$

Output Format

Print YES if the given graph is a tree, otherwise print NO.

Sample Input 0

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

Sample Output 0

```
YES
```

Contest ends in 7 hours

Submissions: 24

Max Score: 8

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Current Buffer (saved locally, editable)

C++14

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code