

## Problem B. Is it a tree

<b>Time limit</b>	500 ms
<b>Mem limit</b>	1572864 kB
<b>Code length Limit</b>	50000 B
<b>OS</b>	Linux

You are given an unweighted, undirected graph. Write a program to check if it's a tree topology.

### Input

The first line of the input file contains two integers  $N$  and  $M$  --- number of nodes and number of edges in the graph ( $0 < N \leq 10000$ ,  $0 \leq M \leq 20000$ ). 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  $v$  ( $1 \leq u, v \leq N$ ).

### Output

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

### Example

**Input:**

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

**Output:**

```
YES
```