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**Cliques****Y16864\_en**

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Given an undirected graph with  $n$  vertices and  $m$  edges, tell whether every connected component is a clique, that is, if all the vertices of the component are directly connected to each other.

**Input**

Input consists of several cases. Each case begins with  $n$  and  $m$ , followed by  $m$  pairs  $x\ y$ , with  $x \neq y$ , indicating an edge between  $x$  and  $y$ . Suppose  $1 \leq n \leq 10^5$ ,  $0 \leq m \leq 5n$ , that the vertices are numbered between 0 and  $n - 1$ , and that there are no repeated edges.

**Output**

For each given graph, print "SI" if every connected component is a clique, and "NO" otherwise.

**Observation**

Even if a green light is obtained, only solutions that perform a single graph traversal will receive the maximum score.

**Sample input**

```
6 4
0 1  2 1  2 0  3 5

6 6
0 5  1 2  2 3  3 4  4 1  2 4
```

**Sample output**

```
SI
NO
```

**Problem information**

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