Unweighted Paths on NetworkX X25538_en

Given a directed graph with n vertices and m arcs, we wish to know if there is a directed path between two given vertices.

Input

Input starts with n and m. Then follow m pairs u, v, with $u \neq v$, indicating an arc from u to v. We have that $0 \leq u < n$ and $0 \leq v < n$ and that there are no repeated arcs. Then follows a pair x, y with $0 \leq x < n$ and $0 \leq y < n$.

Output

Write "yes" or "no" according to whether there is a path from x to y.

Sample input 1

```
8 10
1 4  4 6  7 2  7 5  0 3  2 5  5 2  6 3  1 0  0 1
1 3
```

Sample output 1

```
yes
```

Sample input 2

```
8 10
1 4  4 6  7 2  7 5  0 3  2 5  5 2  6 3  1 0  0 1
7 6
```

Sample output 2

```
no
```

Observation

We are authorized to employ the NetworkX library.

Problem information

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