Graphs (1)   P56483_en

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

Input

Input starts with n i 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 there are no repeated arcs. Then follows, a pair x, y with $0 \leq x < n$ and $0 \leq y < n$.

Output

Write "`yes`" o "`no`" according to whether there is or not a path from x to y.

Sample input 1	Sample output 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 ```	``` yes ```

Sample input 2	Sample output 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 ```	``` no ```

Problem information

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