

Directed Cycle

For a Directed Graph G, Check whether the Cycle exists or not. If exists, print Cycle exists.
else Cycle doesn't exists.

Input:

First Line indicates the number of the Vertices (V).

Second Line indicates the number of the Edges (E).

Next E lines contains 2 integers which are separated by space.

Output:

Print adjacency list for the given graph as given below.

Sample input:

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

Sample Output:

Cycle exists.

Note: Allow parallel edges and self loops in Digraph.