Time limit: 3.000 seconds

# **Strongly Connected Component**

#### The Problem

Given a directed graph, you are to find the number of strongly connected components.

#### The Input

The input file name is 'scc.inp'. In the first line, two integer m and n are given:  $m(\le 10{,}000)$  being the number of vertices and  $n(\le 10{,}000)$  being the number of arcs. In the following n lines, each line has two different integers i and j, which indicates there is an arc from vertex i to vertex  $j(0 \le i, j \le m-1)$ .

#### The Output

The output file name is 'scc.out'. Given information regarding a directed graph, show the number of connected components in the graph.

### Sample Input

7 8

0 1

1 2

2 3

3 4

4 5

5 3

1 6

6 0

## Sample Output

3