Programming assignment 11
Connected component

Input (Standard input)

In the first line, the number of vertices *N* (1 ≤ *N* ≤ 1,000) is given, and the number of edges M (1 ≤ *M* ≤ 5,000) are given. For the next M lines, the adjacency list of graph *G* is represented as the two integers *x*, *y*. This means the edge from vertex *x* to vertex *y* exists.

Output (Standard output)

Print the number of connected components.

[Example]

Input	Output
6 4 1 2 1 4 2 5 3 6	2

Description

1. File name must be Connected_component.cpp

2. Make a comment of your student ID, name and class in the first line of the source code.

ex) 2014601028_Honggildong_A

3. Back up your submitted source code for an unexpected accident.