# Number of connected components

Given an undirected graph with n vertices and m edges. Vertices are numbered from 0 to n-1. Calculate the number of connected components in the given graph.

## Input

The first line consists of two positive integers, the number n vertices $(0<n<10^5)$ and the number of edges m $(0<m<2x10^5)$.

Then there are m lines, each containing two integers u and v representing an edge which connects u and v. $(u,v<10^5)$.

## Output

The number of connected components

## Example

**Input:**
3 1

1 2

**Output:**
2