

Number of Good Components

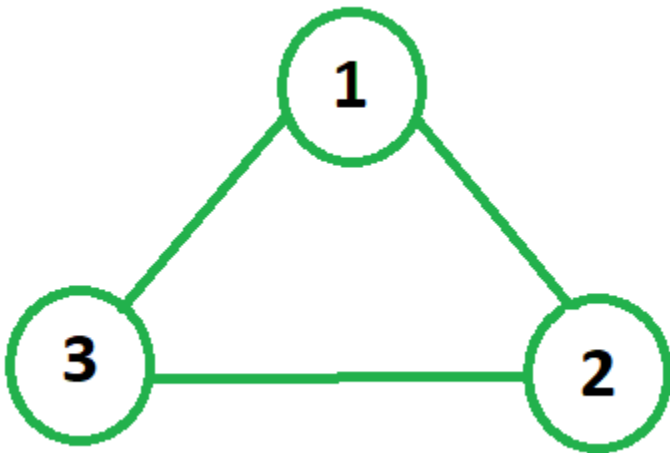
Given an undirected graph with V vertices (numbered from 1 to V) and E edges. Find the number of good components in the graph.

A component of the graph is good if and only if the component is a fully connected component.

Note: A fully connected component is a subgraph of a given graph such that there's an edge between every pair of vertices in a component, the given graph can be a **disconnected graph**. Consider the adjacency list from index 1 .

Example 1:

Input:

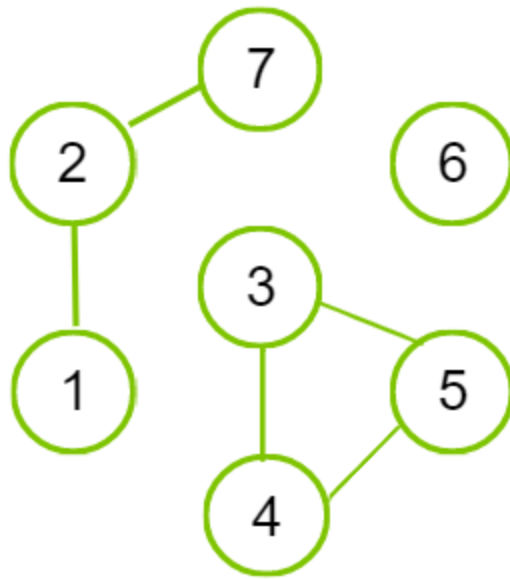


Output: 1

Explanation: We can see that there is only one component in the graph and in this component there is a edge between any two vertices.

Example 2:

Input:



Output: 2

Explanation: We can see that there are 3 components in the graph. For 1-2-7 there is no edge between 1 to 7, so it is not a fully connected component. Rest 2 are individually fully connected component.

Your Task:

You don't need to read input or print anything. Your task is to complete the function **findNumberOfGoodComponent()** which takes an integer **V** and an adjacency list **adj** as input parameters and returns an integer denoting the number of good components.

Expected Time Complexity: $O(V+E)$

Expected Auxiliary Space: $O(\text{depth of the graph})$

Constraints:

$1 \leq V, E \leq 10^4$