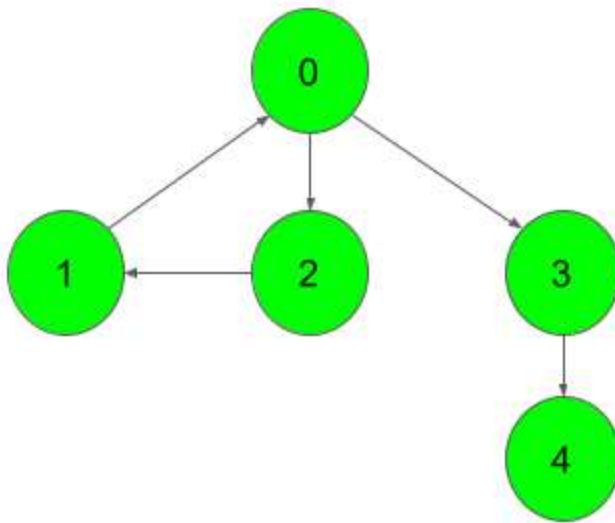


## Strongly Connected Components (Kosaraju's Algo)

Given a Directed Graph with **V** vertices (Numbered from **0** to **V-1**) and **E** edges, Find the number of strongly connected components in the graph.

**Example 1:**

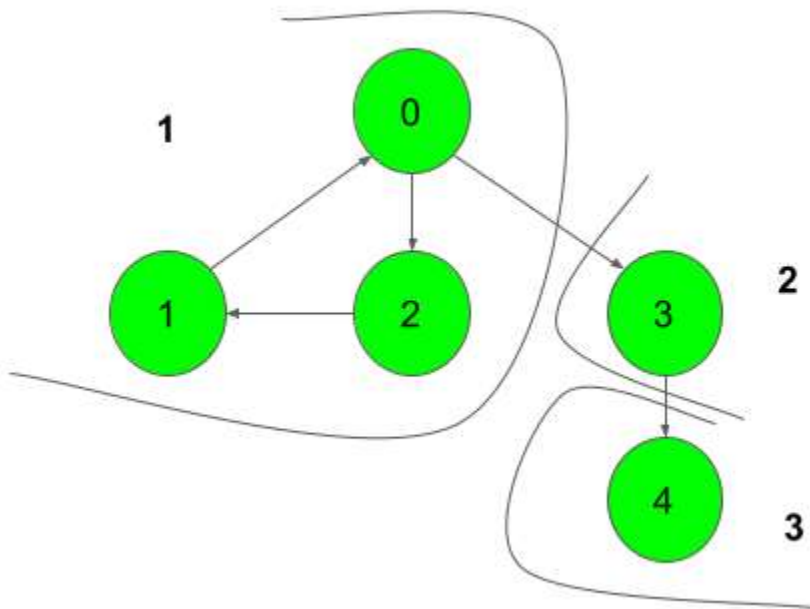
**Input:**



**Output:**

3

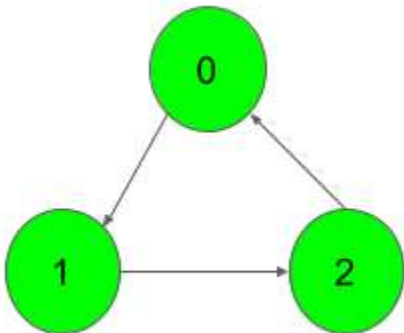
**Explanation:**



We can clearly see that there are 3 Strongly Connected Components in the Graph

### Example 2:

**Input:**



**Output:**

1

**Explanation:**

All of the nodes are connected to each other.

So, there's only one SCC.

**Your Task:**

You don't need to read input or print anything. Your task is to complete the function **kosaraju()** which takes the number of vertices  $V$  and adjacency list of the graph as inputs and returns an integer denoting the number of strongly connected components in the given graph.

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

**Expected Auxiliary Space:**  $O(V+E)$ .

**Constraints:**

$$1 \leq V \leq 5000$$

$$0 \leq E \leq (V*(V-1))$$

$$0 \leq u, v \leq N-1$$

Sum of  $E$  over all testcases will not exceed  $25*10^6$