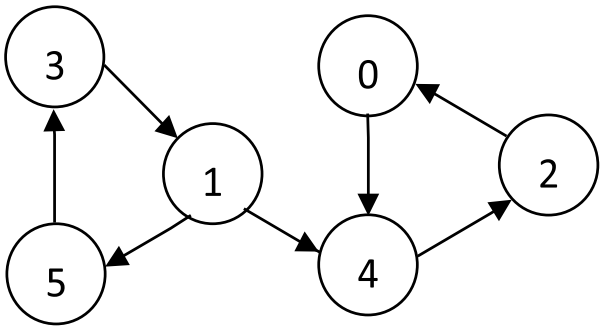
Lab 8

Problem Description:

Write a Java program that receives a directed graph as input and determines the strongly connected components. A directed graph is strongly connected if there is a path between all pairs of vertices.



Input: The first two lines of input determines number of vertices V and number of edges E, respectively in the graph. The next E lines indicate the connectivity between vertices.

Output: Output will show the strongly connected components in input graph as given in the test case format. The components themselves must be sorted.

Test Case	Input	Output
1	6 7 1 4 1 5 0 4 4 2 3 1 5 3 2 0	[1, 3, 5] [0, 2, 4]
2	7 10 2 3 0 2 6 3 1 2 3 4 3 5 0 1 1 3 0 3 5 6	[0] [1] [2] [3, 5, 6] [4]