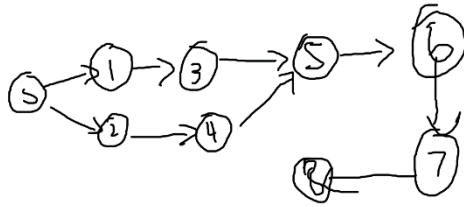


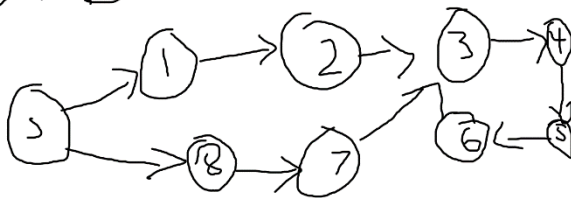
Studio 9

Problem 2:

BFS



DFS



Problem 3:

If at any point during depth first search, the algorithm finds an edge that leads to a vertex which has already been visited, then there must be a cycle in the graph.