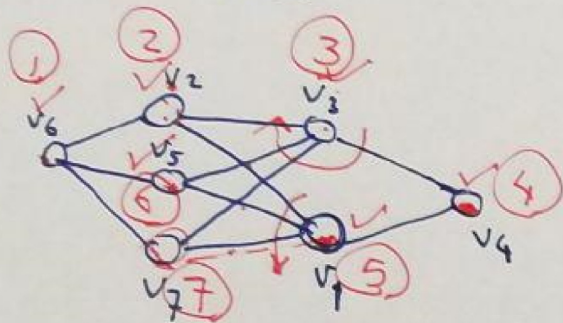
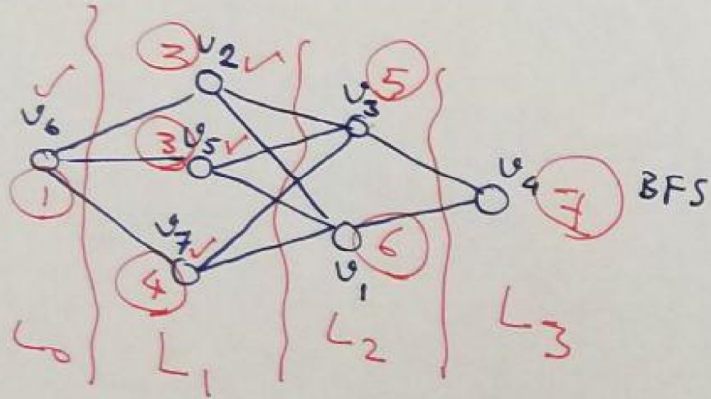


D.F.S. v.s. B.F.S.

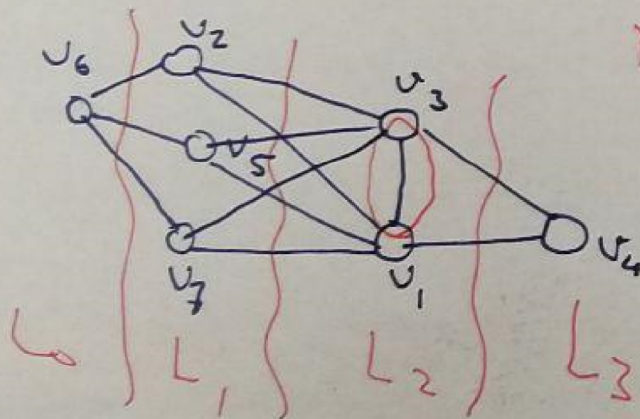


DFS



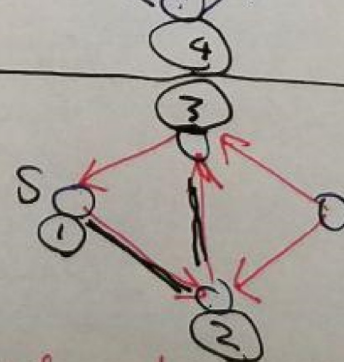
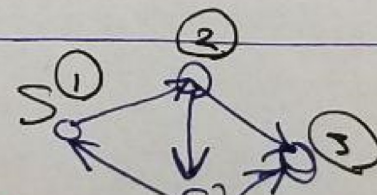
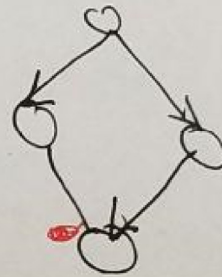
BFS

Testing Bipartite



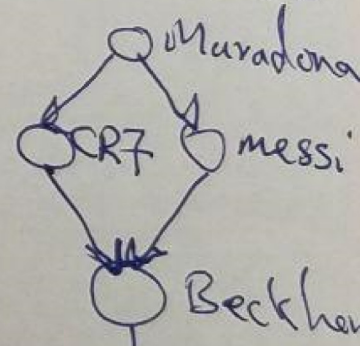
Not bipartite

①  
 $Dfs(G, s)$   
 if ( $visited[s] == True$ ) return  
 $visited[s] = True$   
 for all  $s'$  in neighbors( $s$ )  
 $Dfs(G, s')$



Test if a graph is strongly connected

Partial order



E.g. DAGs can show partial order