Omar Tamer Abdelaty - 8001675 - T1 Analysis and Design of Algorithms Assignment 2 Dynamic Programming

A Tree for an undirected graph is a connected, non-cyclic graph. We perform a dfs to find if we can reach all nodes from any starting node, if all nodes are visited then it is a connected graph. During the traversal we check if from the current node we can visit a previously visited node, if so this means that the graph is cyclic and therefore is not a tree.