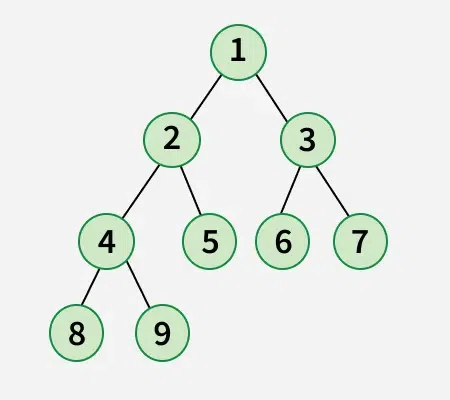
27/11/2024

1)Given an array that represents a tree in such a way that array indexes are values in tree nodes and array values give the parent node of that particular index (or node). The value of the root node index would always be -1 as there is no parent for root. Construct the standard linked representation of given Binary Tree from this given representation.

Input: parent[] = {1, 5, 5, 2, 2, -1, 3}  
Output: root of below tree  
 5  
 / \  
 1 2  
 / / \  
 0 3 4  
 /  
 6

2)Develop a c program for the tree traversal of the following binary tree.(in-order, pre-order and post-order)



3)Construct a Binary Search Tree (BST) for the following sequence of numbers-

50, 70, 60, 20, 90, 10, 40, 100

4)Consider the following graph. If there is ever a decision between multiple neighbor nodes in the BFS or DFS algorithms, assume we always choose the letter closest to the beginning of the alphabet first.In what order will the nodes be visited using a Breadth First Search? In what order will the nodes be visited using a Depth First Search?

