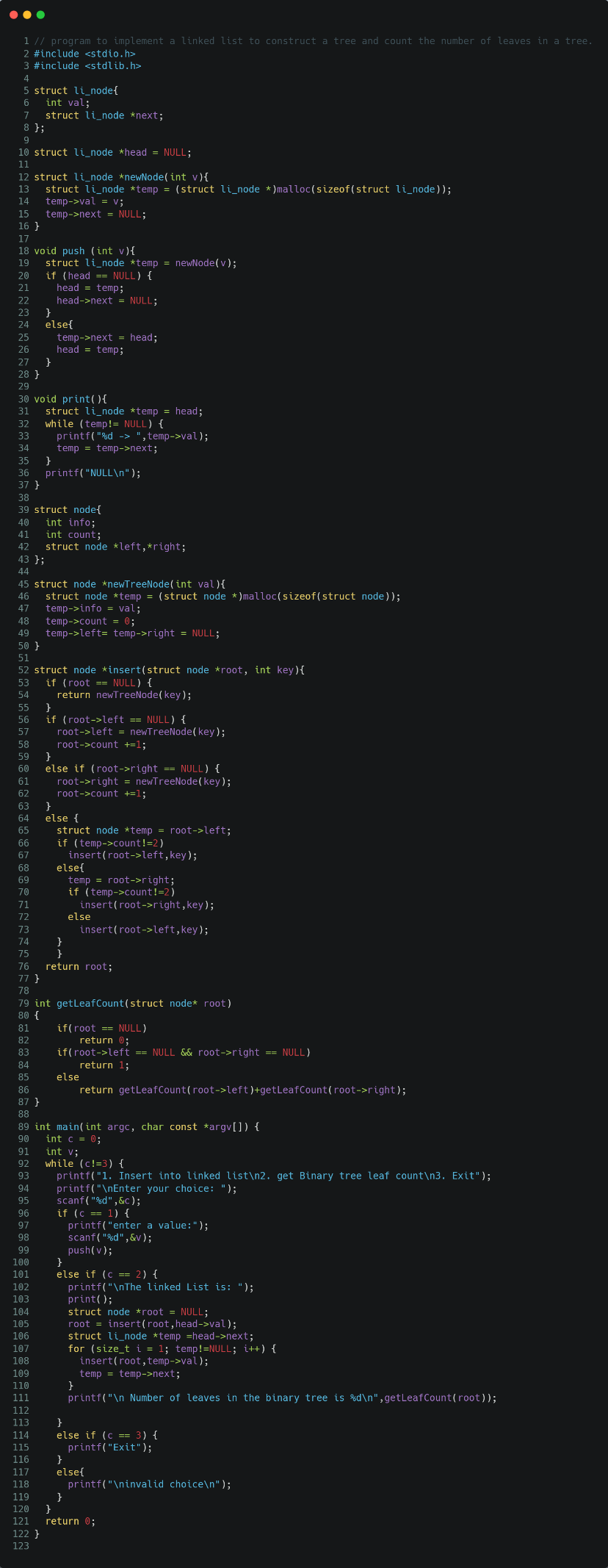
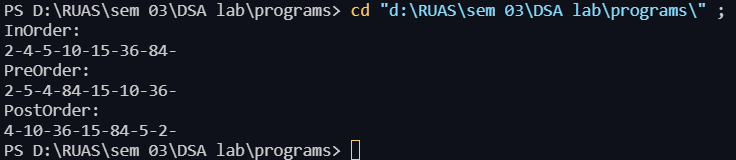
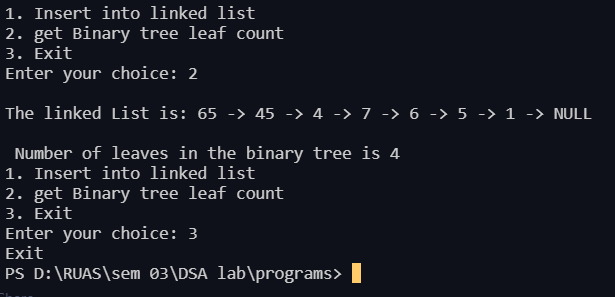
# Laboratory 9

1. Questions
2. Write a C program to construct a binary search tree and perform the Preorder, post order and in order traversal.
3. Write a C program to implement a linked list to construct a tree and count the number of leaves in a tree.
4. Algorithm
5. Program



1. Presentation of Results





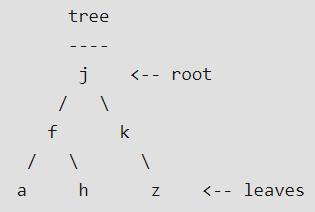
1. Conclusions

Learning happened

trees are hierarchical data structures.

The topmost node is called root of the tree. The elements that are directly under an element are called its children. The element directly above something is called its parent.

Binary Tree: A tree whose elements have at most 2 children is called a binary tree. Since each element in a binary tree can have only 2 children, we typically name them the left and right child.



Binary Search Tree, is a node-based binary tree data structure which has the following properties:

* The left subtree of a node contains only nodes with keys lesser than the node’s key.
* The right subtree of a node contains only nodes with keys greater than the node’s key.
* The left and right subtree each must also be a binary search tree.