20A05301P Advanced Data Structures and Algorithms Lab

Ex.No:1   **Date:**

Aim:
Write a program to implement the following operations on Binary Search Tree
a) Insert   b) Delete   c) Search   d) Display

Description:
➢ Binary Search Tree is a binary tree in which every node contains only smaller values in its left subtree and only larger values in its right subtree. There must be no duplicate nodes.
➢ It is called a binary tree because each tree node has a maximum of two children.
➢ It is called a search tree because it can be used to search for the presence of a number in $O(\log(n))$ time.

The following operations are performed on a binary search tree...
1.   Insertion
2.   Search
3.   Deletion
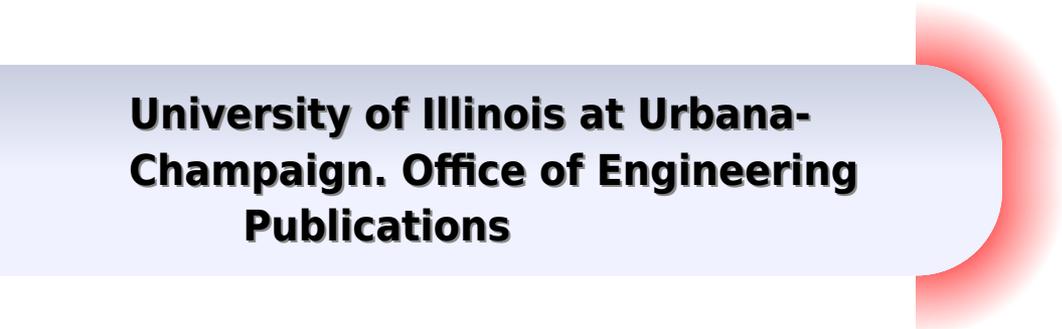
Procedure:
1. Insertion Operation in BST
In a binary search tree, the insertion operation is performed with $O(\log n)$ time complexity. In binary search tree, new node is always inserted as a leaf node.
The insertion operation is performed as follows...

Step 1 – Create a newNode with given value and set its left and right to NULL.

Step 2 - Check whether tree is Empty.

Step 3 - If the tree is Empty, then set root to newNode.

Step 4 - If the tree is Not Empty, then check whether the value of newNode is smaller or larger than the node (here it is root node).

Step 5 - If newNode is smaller than or equal to the node then move to its left child. If newNode is larger than the node then move to its right child.

Step 6- Repeat the above steps until we reach to the leaf node (i.e., reaches to NULL).

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