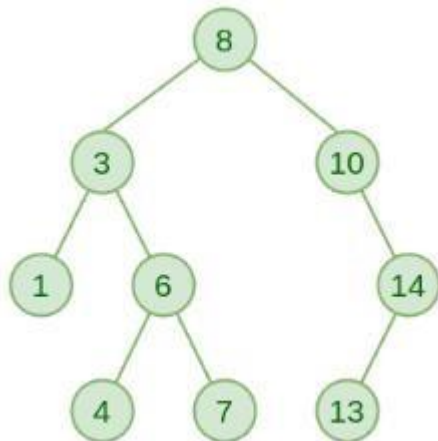


Binary Search Tree

Binary Search Tree (BST) is a special type of [binary tree](#) in which the left child of a node has a value less than the node's value and the right child has a value greater than the node's value. This property is called the BST property and it makes it possible to efficiently search, insert, and delete elements in the tree.



Properties of Binary Search Tree:

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.

This means everything to the left of the root is less than the value of the root and everything to the right of the root is greater than the value of the root. Due to this performing, a binary search is very easy. The left and right subtree each must also be a binary search tree. There must be no duplicate nodes (BST may have duplicate values with different handling approaches)

Basic Operations on Binary Search Tree:

1. Searching a node in BST
2. Insert a node into a BST
3. Delete a Node of BST
4. Traversal (Inorder traversal of BST)