DSA through C++

Binary Search Tree



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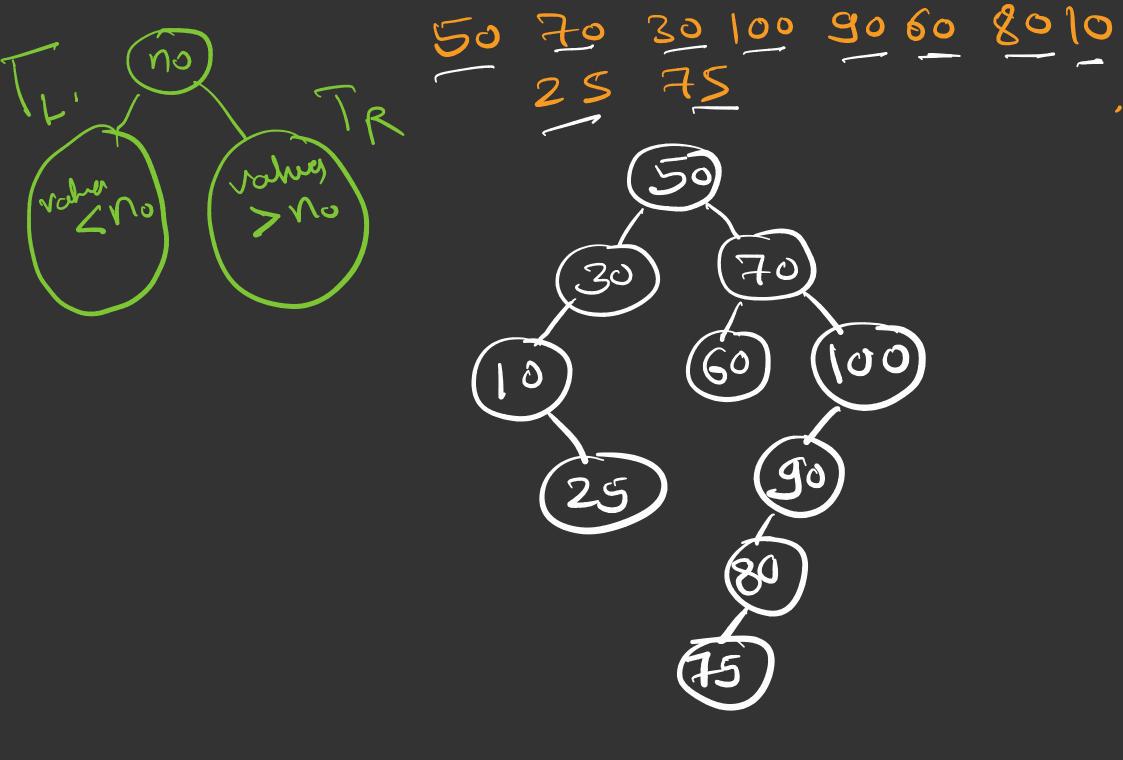
Agenda

- (1) Binary Search Tree
- 2 Implementation of BST

Binary Search Tree

A binary search tree is the most important data structure, that enables one to search for and find an element with an average running time $f(n) = O(\log_2 n)$

Duplicate values are not allowed in BST (By default)



Binary Search Tree is a binary tree with the value at node N is greater than every value in the left subtree of N and is less than every value in the right subtree of N.

Unless, explicitly said, BST doesn't allow duplicate values.

Implementation

- 1 node
- 2 Insertim
- 3 Traversing
- 4 Search
- 3 Deletim

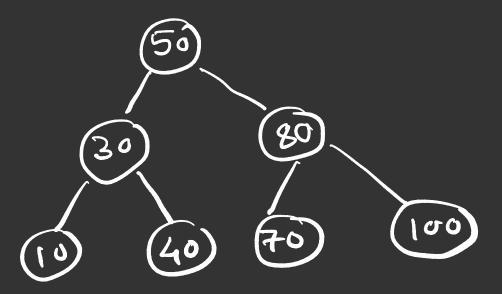
node

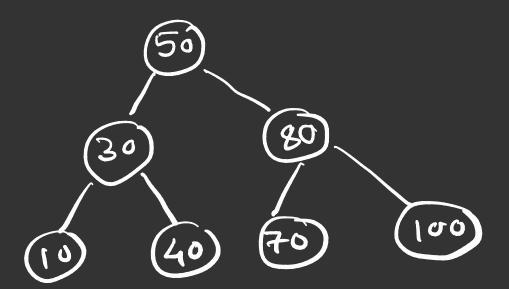
```
Stauct node

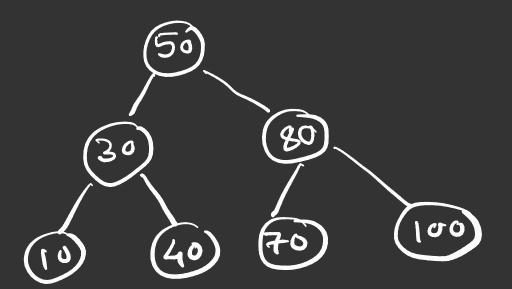
node *Jeft;
int item;
node *right;
```



Insertim







Deletian