Binary Tree

Basic Operations:

1. Create binary tree.
2. Tree traversals (Pre-order, in-Order, Post-Order, Level-Order, vertical order) with recursive also
3. Delete a given element.
4. Searching for an element.

Auxiliary Operations:

1. Find size of the tree.

Applications of Tree:

1. Represent data in hierarchal manner (File storage).
2. Routing Algorithms.

Fundamental questions :

1. Left, Right, Bottom, Top, left diagonal views.

2. LCA

3. Diameter

4. Vertical sum.

5. print path root to leaf

Binary index tree

segment tree

red-black tree

AVL tree