Binary Trees-

<https://www.geeksforgeeks.org/binary-tree-data-structure/>

**Application:-**

1. Expression trees are used in compiler
2. Huffman coding trees that are used in data compression algorithms
3. BST, supports search, insertion and deletion on a collection of items in O(logn)
4. Priority Queue, which supports search and deletion of minimum on a collection of items in logarithmic time

**Traversals-**

1. **D –** current node is processesd.
2. **L –** traversing to the left child.
3. **R –** Traversing to the right child
4. **PreOrder Traversal (DLR)**
5. **Inorder Traversal (LDR)**
6. **Postorder Traversal (LRD)**

<https://www.geeksforgeeks.org/tree-traversals-inorder-preorder-and-postorder/>

1. **Level Order Traversal**

<https://www.geeksforgeeks.org/level-order-tree-traversal/>

## Problems

1. Max/Min element in Binary Tree

<https://www.geeksforgeeks.org/find-maximum-or-minimum-in-binary-tree/>

1. Insertion

<https://www.geeksforgeeks.org/insertion-in-a-binary-tree-in-level-order/>

1. Deletion

<https://www.geeksforgeeks.org/deletion-binary-tree/>