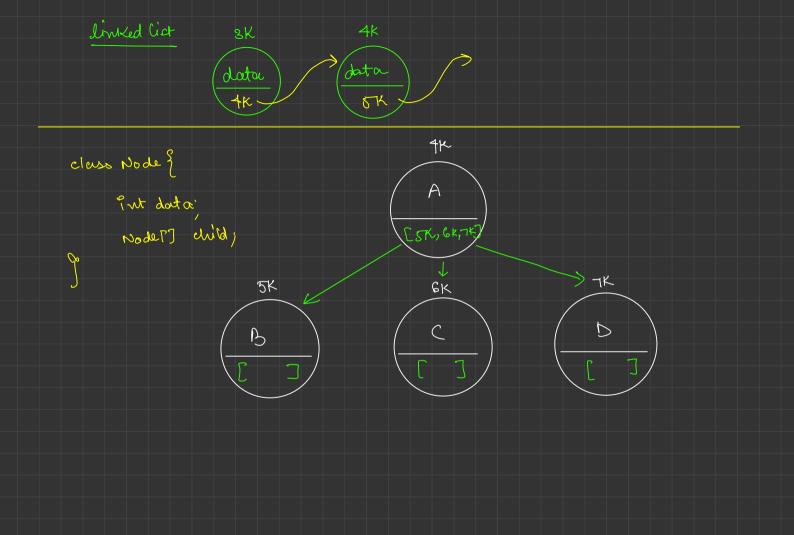
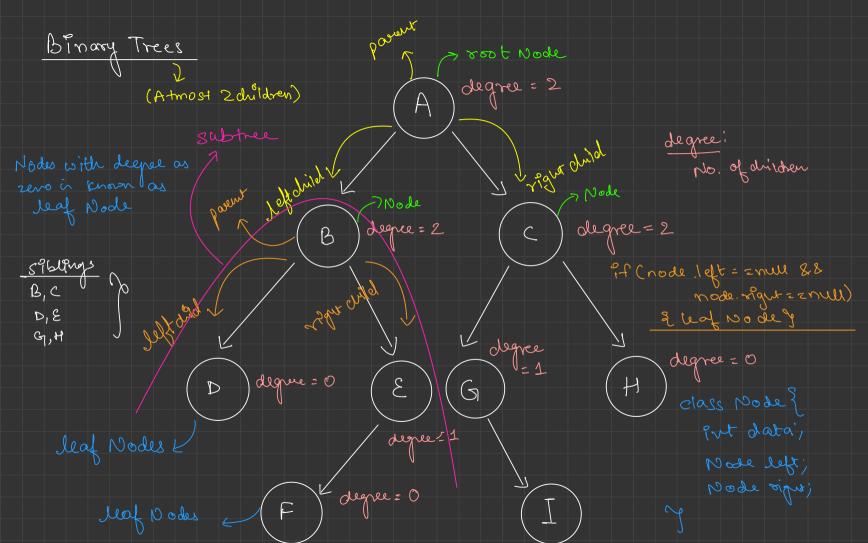


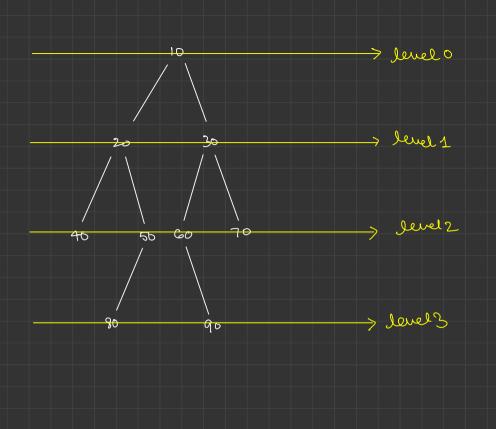
Blnary Trees

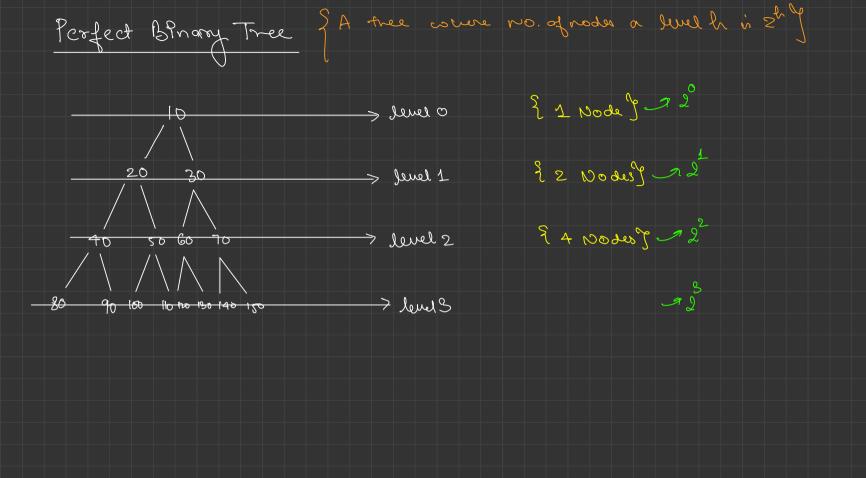
Store your office employees data!

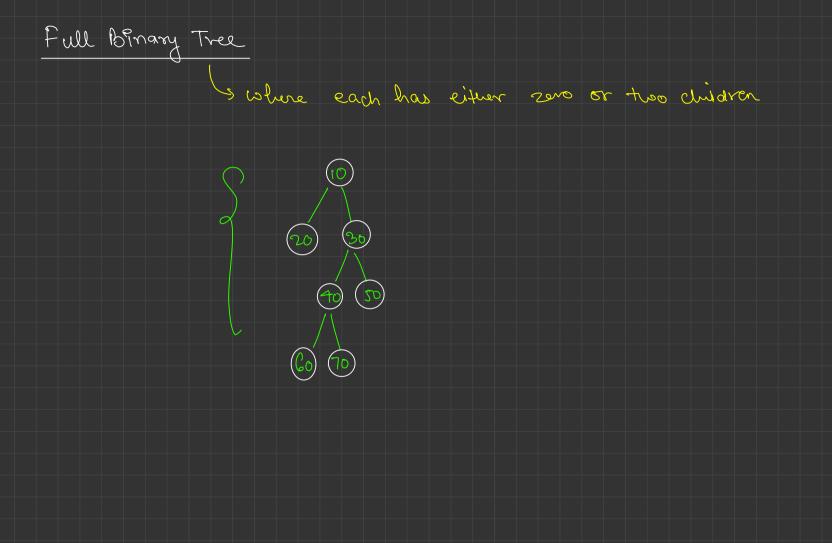


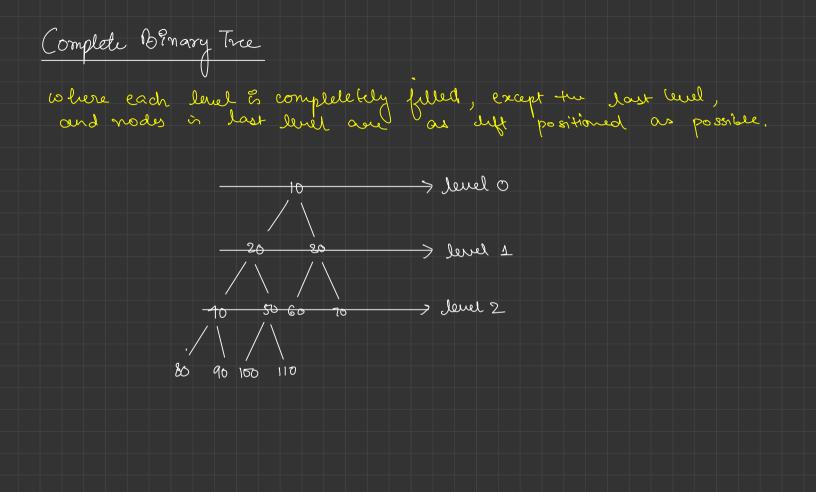


height of a Bhay Tree of dist boy root node and the deepest of leaf node on terms of edges height = 3



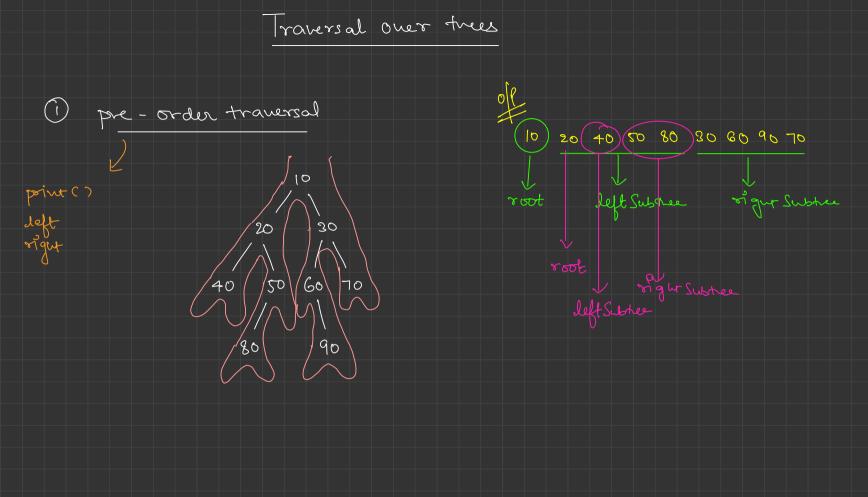


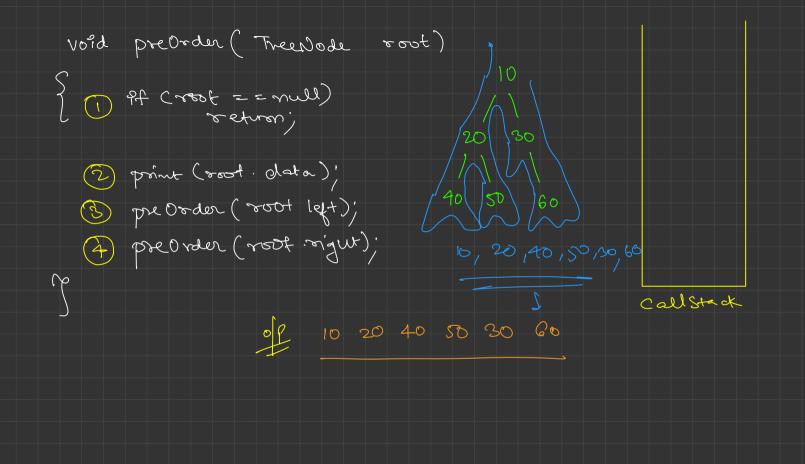




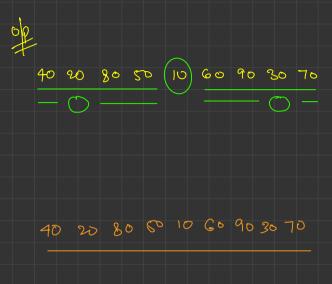
Balanced Binary her height of left Survee - helger of rigue Survee | < 1 valid for each node

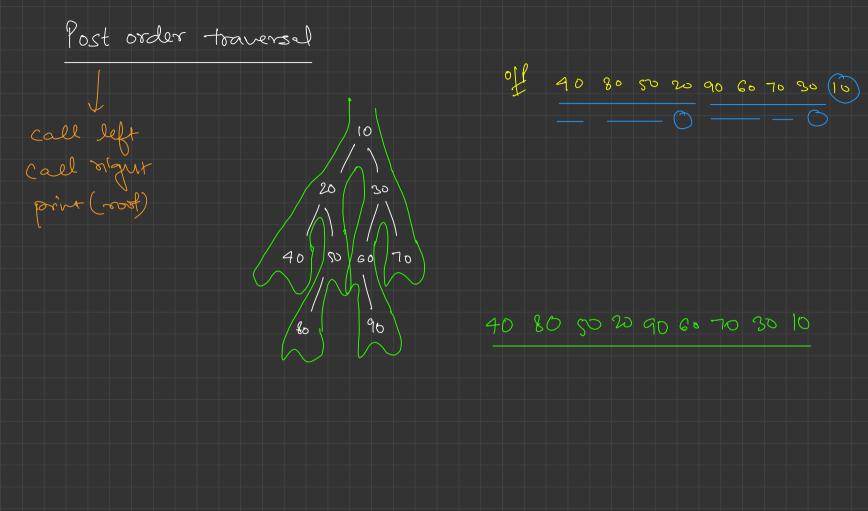
Skew Tree right skewed thee left skewed tree

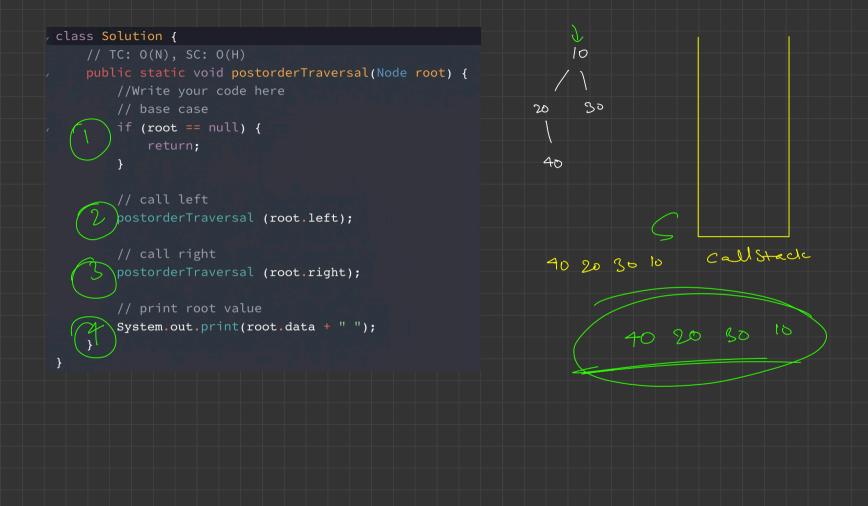




In order tomersal 10 call left yo



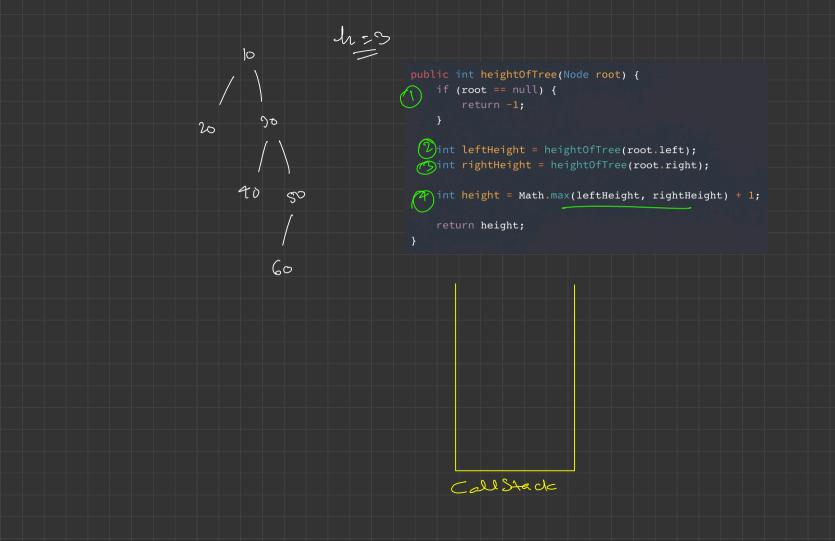




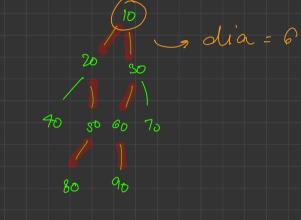
Size et a Binary tree

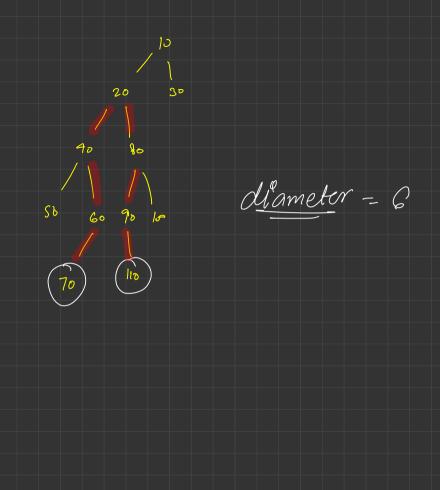
(No. of rodes at Binony tree) 8ize : 9 20 / P 40 350 66 76 3 Pf (rest = = null) betumo; Put 1st Size = 8're (800t. reft); Put 88t Size = Size (800); signal) Fetur 1878he f 1 f 8848'e;

> Sum of all the nodes of a tree > Sum of 18+ + ooth val + Sum of 522 Mar value en a hee (lund, onare, ood wal) mane (h let physt) of 1



diameter of tree I manimalist b/w any two leaf Nodes of





```
static int maxDiameter = 0;
public static void getDiameter(Node root) {
    if (root == null) {
        return;
    int lstHeight = getHeight(root.left);
    int rstHeight = getHeight(root.right);
    int diameter = lstHeight + 1 + rstHeight;
    maxDiameter = Math.max(maxDiameter, diameter);
    getDiameter(root.left);
    getDiameter(root.right);
public static int diameter(Node root) {
    // Your code here
```

2 mydia, Bestdia Ceft, Bost dia right root



