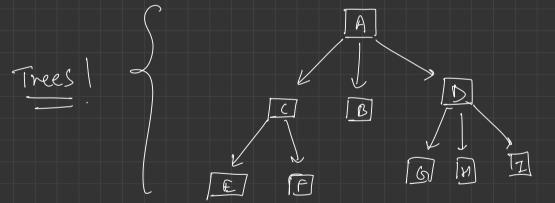
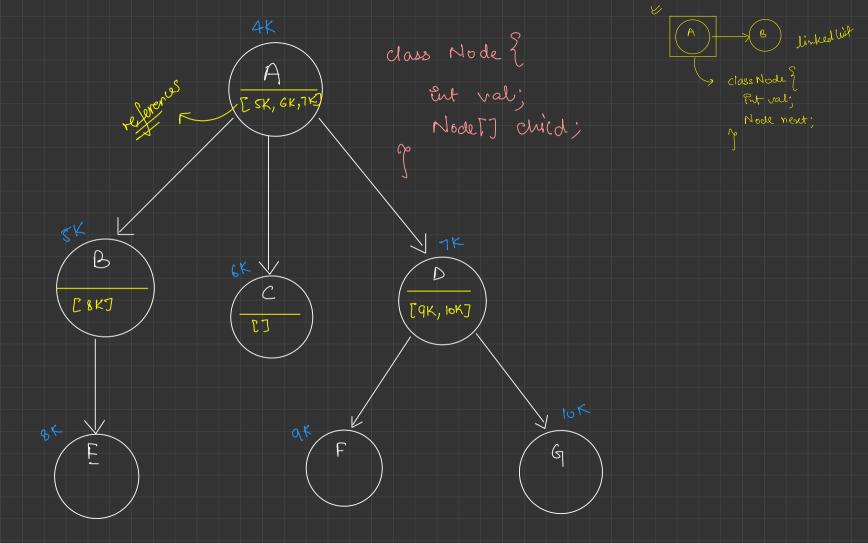
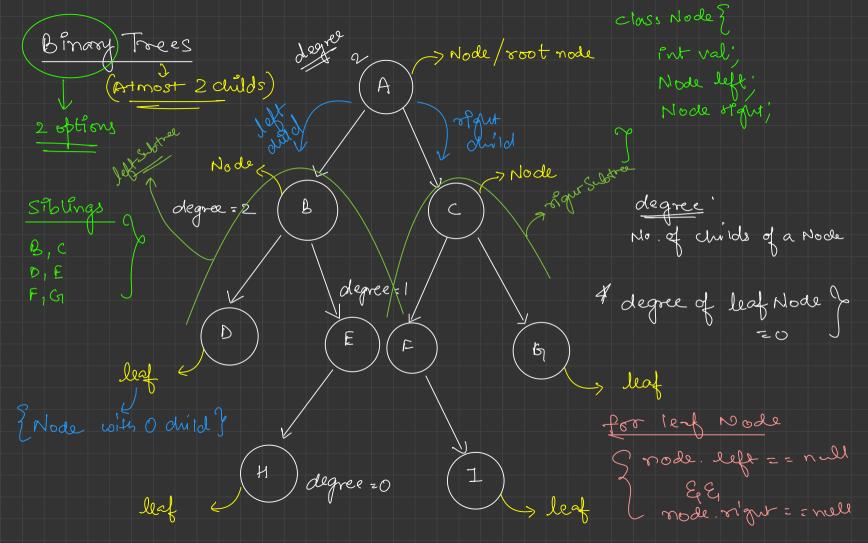


Binary Toces

Store your office employees data!







height of a bornary tree I dist blu root node and deepest leef I Node in term of edges height = 3

-> level 0

I Think of level as guenation I

A tree where no. of nodes at y Perfect Broomy Tree? height: 3 3 1 Node y >> 20 . _ - - 10 · - - - - · level 0 - - 20 - - 30 { 2 Modes} _ 2 - 40-50 GO 70 ? A Modes 9 22 level 2 { 8 Modes} ~ 23 Level 3 - 80 90 150 HO DE 12x 190-180 h level h 32 2h Modes }

full Binary Tree

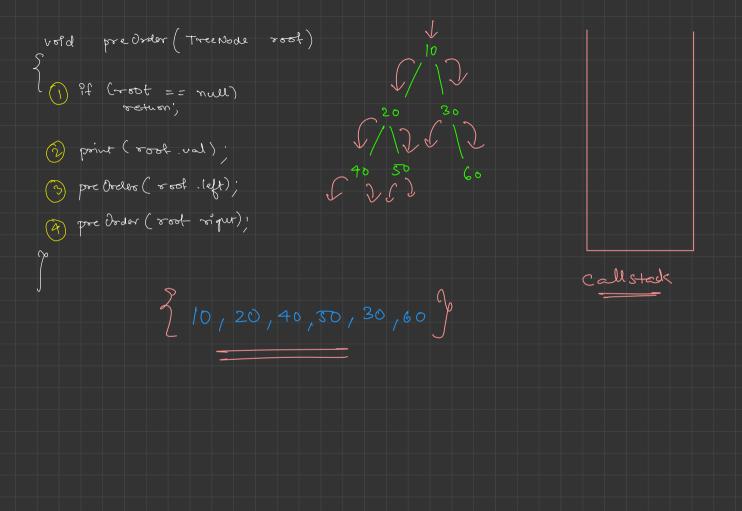
A BT whose each Node has also zero or two cuilds.

Complete Polnory Tree where each level is completely filled, except the last lend, and the nodes in last level are as left as possible 40-50-60-70 20 -90-100 _ _

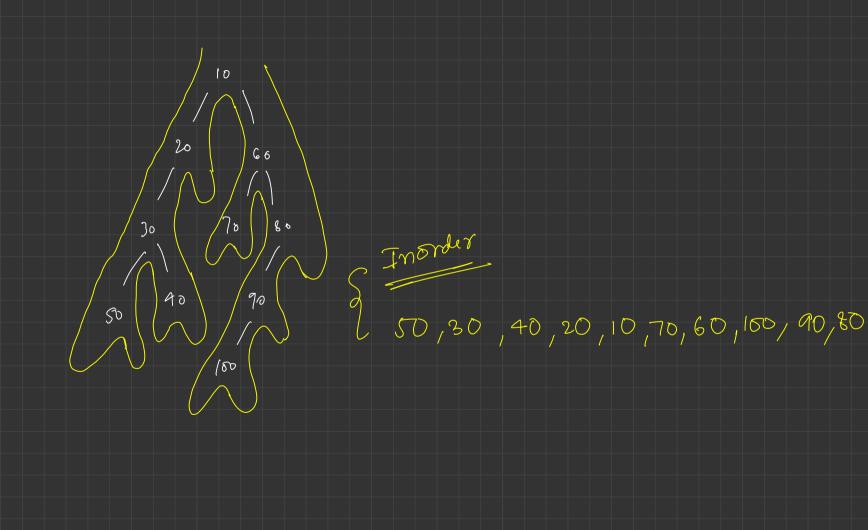
Balanced Binary Trees height af signer Subhee & 1 for Eway of Node

Skew toce

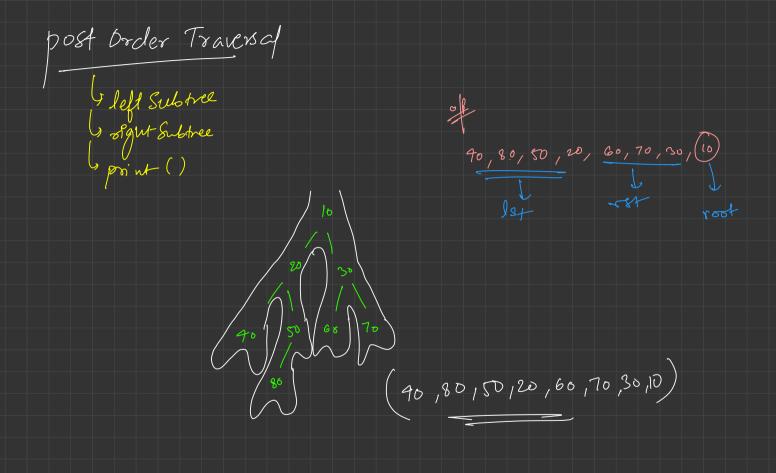
Traversal over tree boint (node) SPgH roof 90 10, 20, 30, 40, 80, 50, 60, 90, 70



In Order Traversal 90,20,80,50,10,60,90,30,70° 90



void Inorder (Tree Node root) of (root = = null) Inorder (root, left); forint (rod and); Indrolper (out of yer); 40,20,50,10,30,60



Size of a Binory Tree

No. of Nodes in Brinary Tree) Sire = 9 A 20 50 60 70 80 90 int size (TreeNode root)

of (root = = null) return 0; int lst = 6'pe (8001.left); Int 1887 = Sine (8001.nipa); returs 180- { 1 + 080;

Sim of tre 9 Sim of all nodes value in a free

