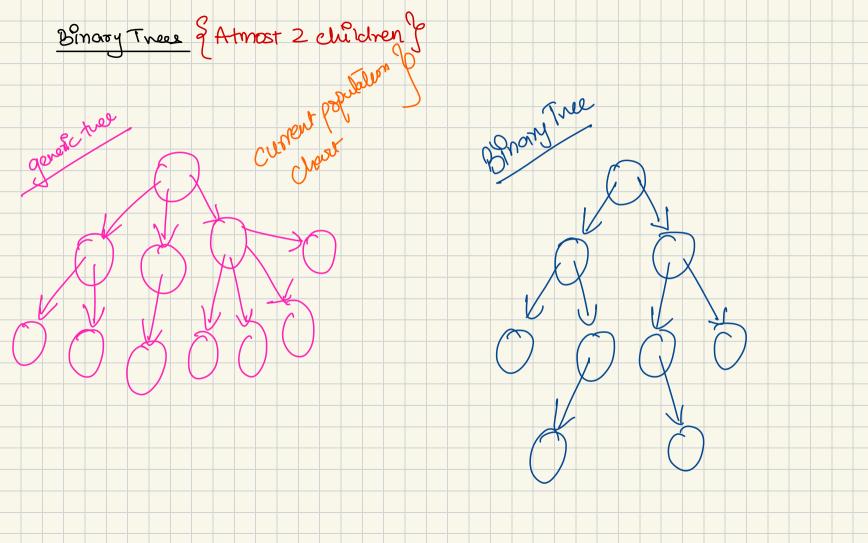
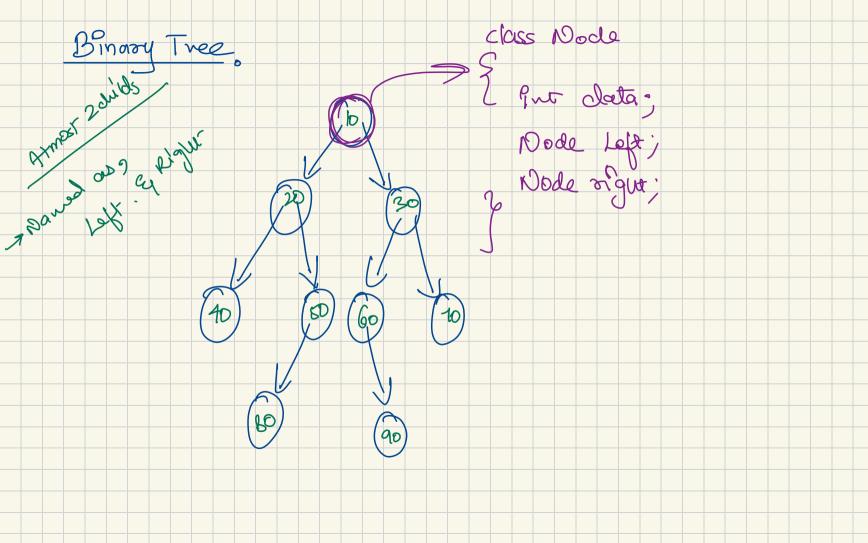
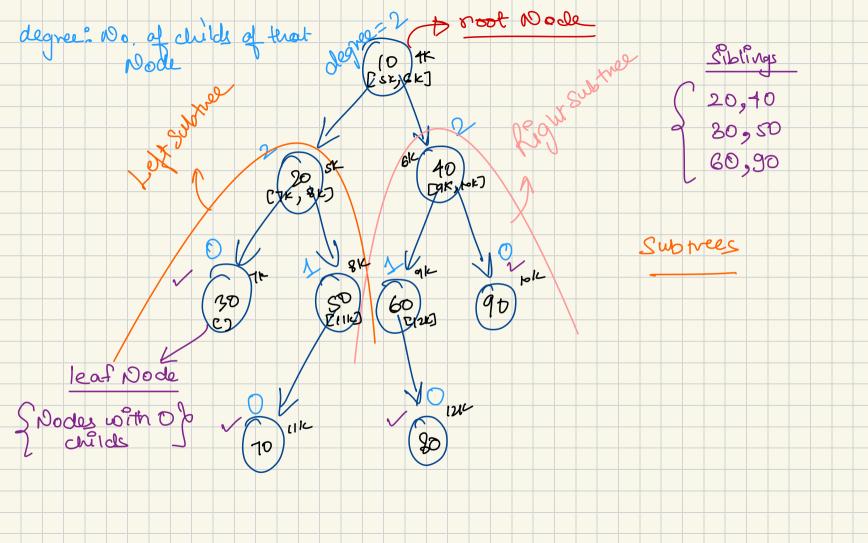


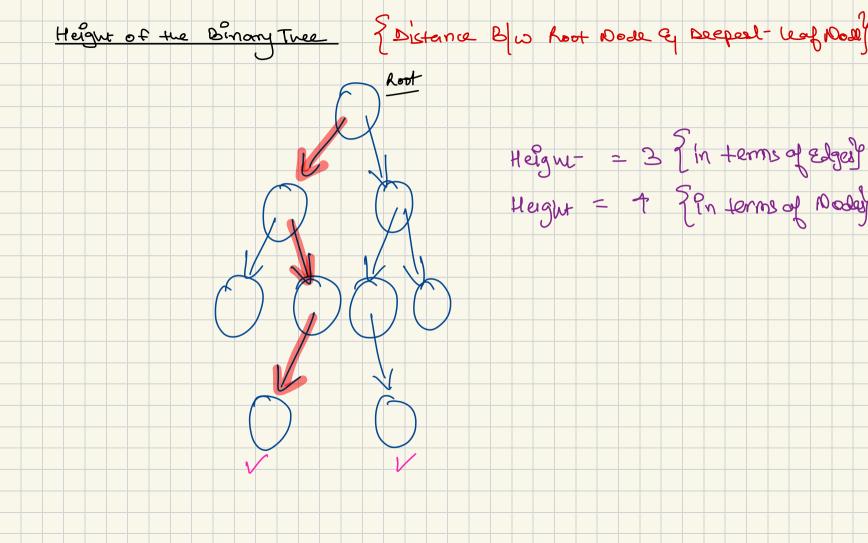
Binary Trees -> Non arear Data Structure Heirardy

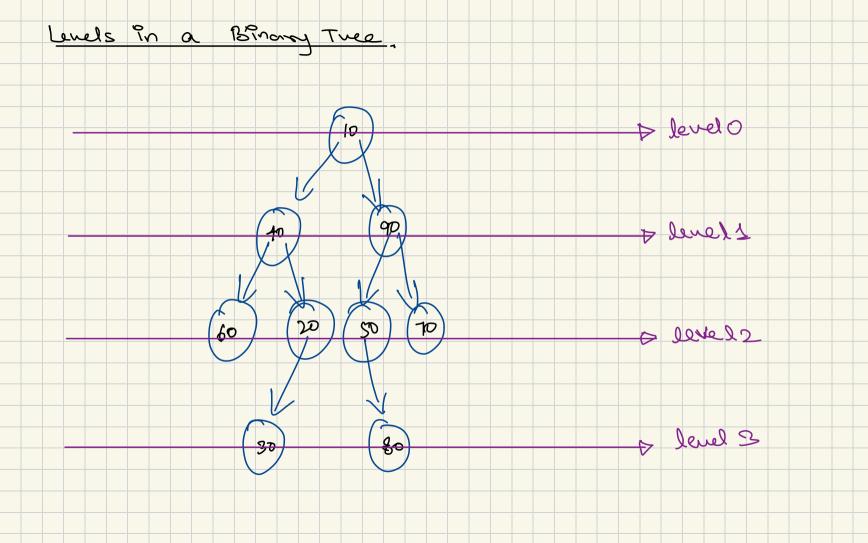
file system Tree Data Structure address of 4 other files Nodel 1 duld Accio > Hashing Queues Binary Search Stacks General Trees Thee Wodes with

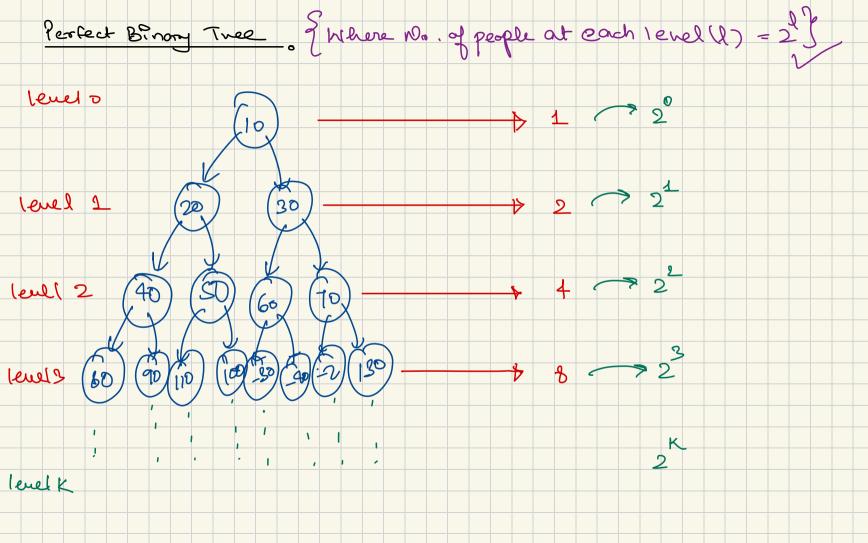










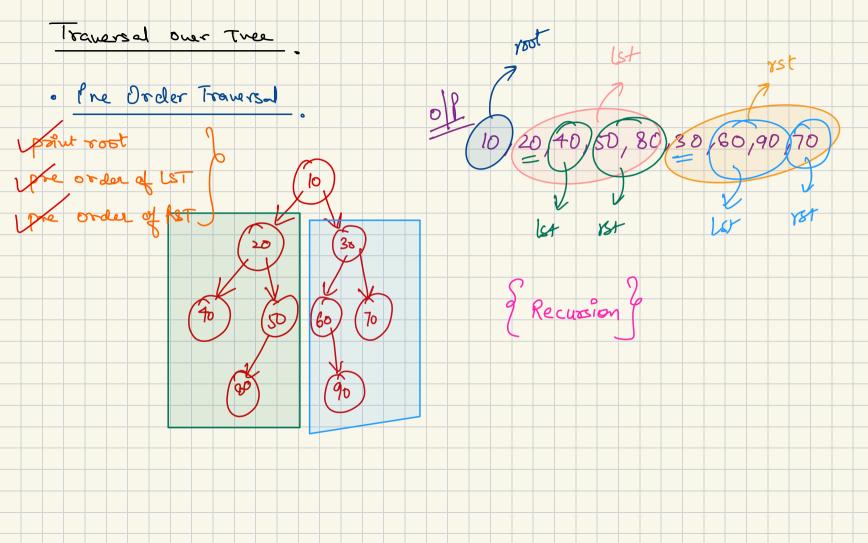


full Binory Tree -> Where each node have Erner O or 2 children

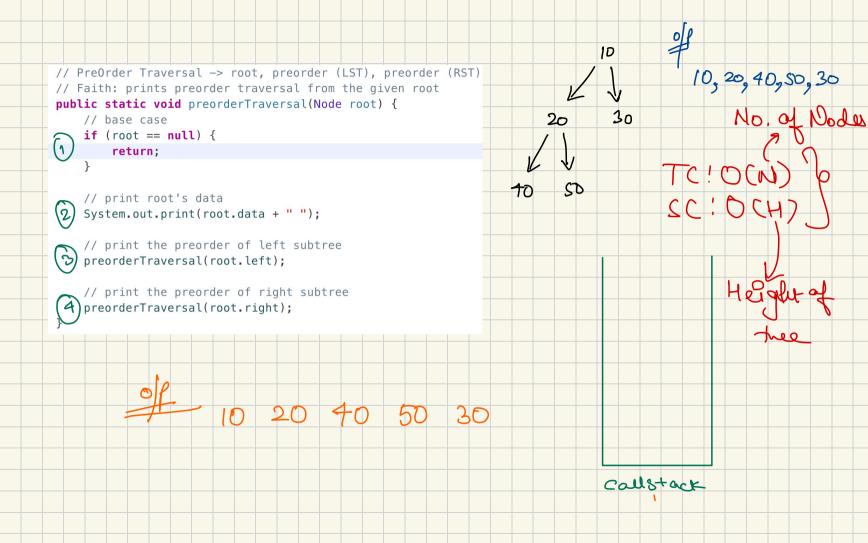
Complete Binary Tree. , othere each level is completely filled, except last level. ource nodes are as left positioned as possible.

Balanced Binary Tuess Balanced Nocle A tree En worden early woode is borlance al) 1st height - RST height | < 1 Som terms of Nodes?

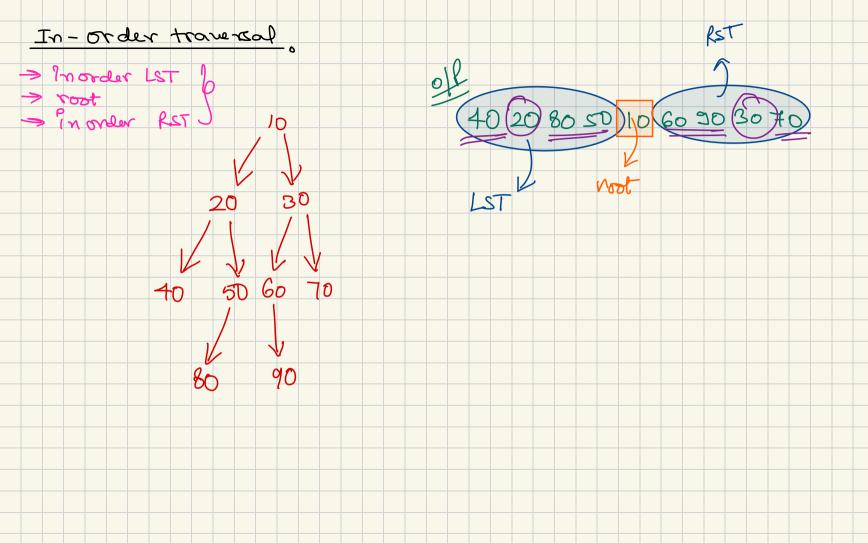
Skew tree Right Skew (1) Left Skew Can only liane Can only frame right child on



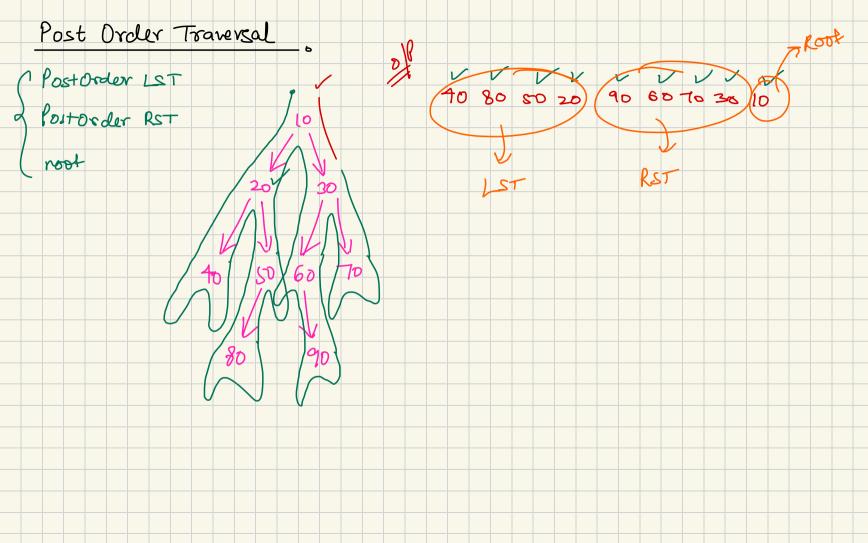
faith; point pre-order of the tree from void print me Order (Nocle root) if (root = = null) return point (nost data); print he Order (root · left); Print Ine Order (root right);



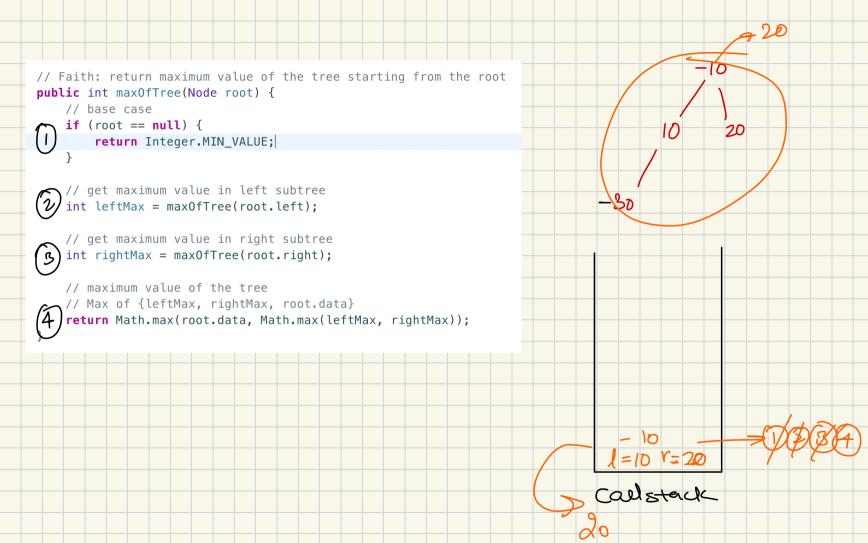
Eulay's forth 10, 20, 40, 50, 80, 30, 60, 90, 70 Whenever see something new poort ?+



40 20 80 50 10 60 90 30 70



Max in a tree & Max value present in a tree of frank vertures mon valle of the of th (the cool) sent formor the if (toot = = nell) return MINValue; (ut a = manoftnee (not left) Put b= man of Tree (root of 10) neturn manga, b, noot data g,



of Nodes in a tree size of the tree fouth " returns size of the tree "F Stacking from roof Int size (Node root)

Sum of data of all the Nooles of a Twee faith returns sum af the tree starting sum Of Nodes (Node noot)

Height of the tree height = + Ceith! rown bright of the Put beignt Of Tree (Node root)