Tree (Data Structure - Collection of nodes that point to other nodes Binary Tree Droot node -Entry point to get to child nodes. hild nodes Leaf nodes -Do not have child nodes.

2 Binary Tree

- Where it can have at most

2 children

2 children Different type of Binary Trees -A Tree where of (evels are completely) full and prahed to the (eff.)

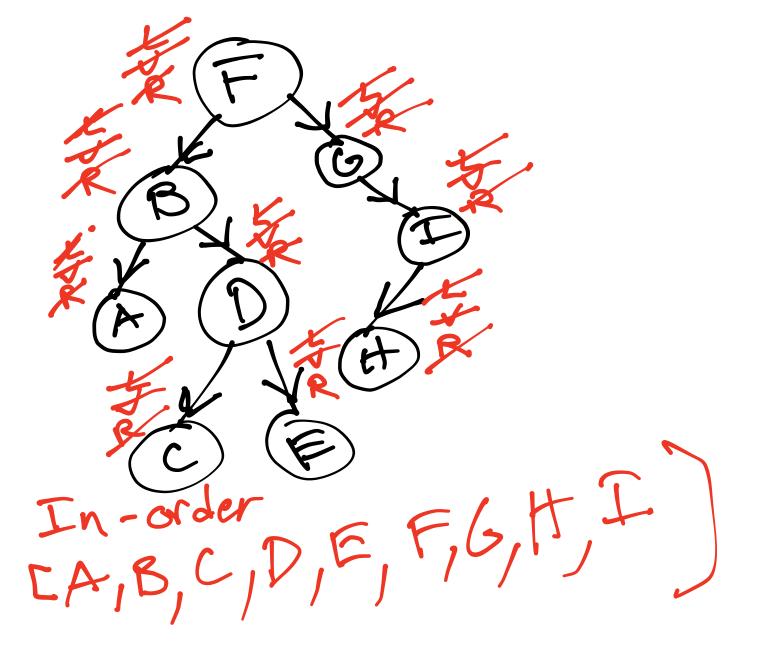
Balanced Tree - Where the height of le RST differ 1 subtree et most Height (3T) is the posts from à neble to the despost leofnable Formula of LST height of RST

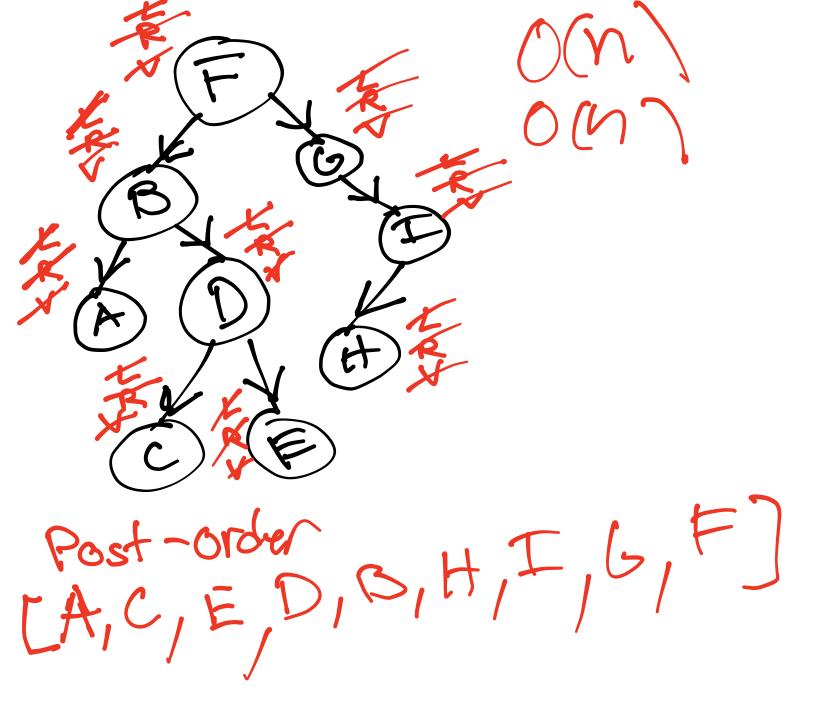
Unbalance on node to voo 0eplh of 9? 2 In detail Formule # of edges = Depth O Height 3 nodes -I

Kinory Tree Traversals (PTS) Pre-order Th-order Post-order
Travere L

Traverse R

Traverse R





Breadth First Seen Clavel order Level CF,B,G,A,D,T, (F,H) left Ptv rightPf.r Usvally implemental 25

2 Quene DIT REXIBILITA Quene Traverse EF, B, G (2) Graph 5 - Show how things are conhected Node/vertites => -No root rades Nobe/vertice

Diverties and conces Edges con hove a dinaction and also data \*Ovected graph SF PLV Ladon withde == when an edge has 62 to

Judivected Staph == Bidirectima Cyde Acyclic

Edge List, Adj list, Adj matrix J:) B,C

5. [3] BFS Typlohunfation -heed 2 que he stas q=CXBAP 1.) Add 'A' to queur 2.) Mark as visited 3.) Pap fran quene 4.) Put in toursol order 5.) Add all adjudato quene Reprot

E-CABICIPIE, F, GJ

DFS Implem.
-Use stack or recursion

Dishetor of Binory
Tree

3

