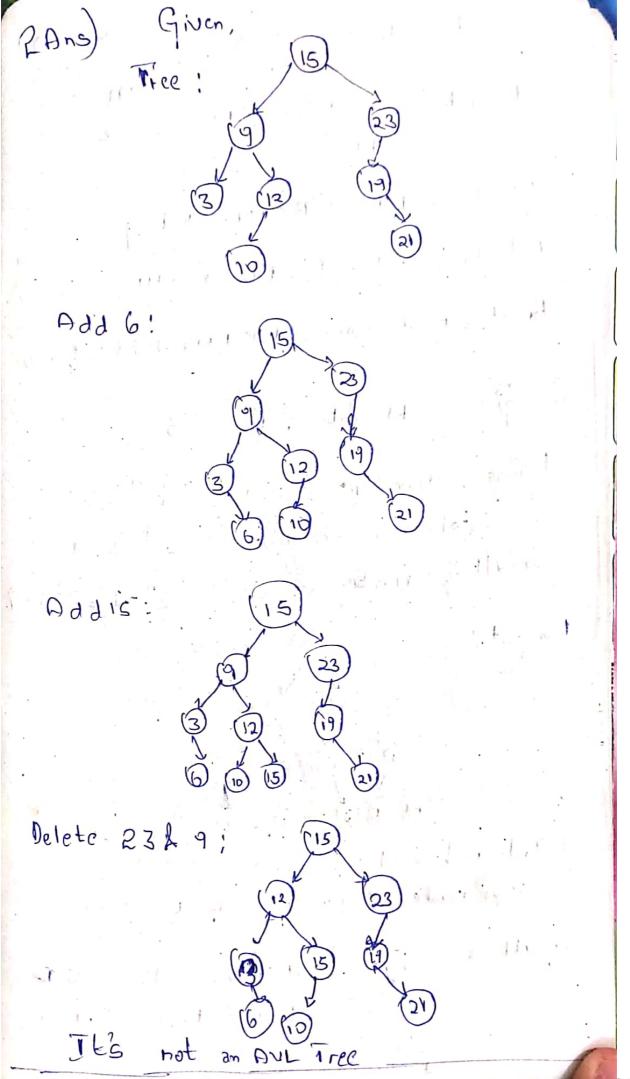
Mo from med Ald Dota Structure Quiz 19 bec OR4 1A) In order: AKBJCLIDE Sec 8 FHG Preorder; LKAJBCIHGDFG Postorder: ABC JKIDEFGHL Breadth First Order: LK! HAJEFG'BCD. 3A) Given, Height of Tree = 3 Largest number of nodes = 2(0+1)-1 (where n 36 height) = 2 4 -1 = 15 Smallest number of nodes = 2"-1=23-1=7 Largest; Internal nodes: A,B,C,D,E,F,G Leaf nodes : H, I, J, 16, L, M, M, D, Smallest; Internal nodes: A, B, D Leaf nodes: C, E, F, G

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4A) The Statement is False. Reason: In pre-order traversal, the first item printed is not the smallest one, According to the sule in pre-order we first put noot node, then left child & then slight child. Among them left child is smallest which isn't at first place Eg: به Pre order: 6:435/ 8.79 - 21 Here 3 is smallest which ish't first place 5A) The boreadth first traversal of given number 15 2, 3, 5, 10, 8, 7, 22, 11, 13, 20, 24, 16 22 11 13 20 24 16 Null Deletion & addition operation isn't possible in this tree because it isn't a binary search tree. Such operation exists only for Binary Search Tree

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6 Ans) Postorder Sequence for Binary Search Tree is gluen 26 10, 30, 20, 150, 300, 200, 100. Considering Binary Search Tree 26 Post - Traversal for such tree 76 DEB FGC A. Comparing nodes to given values A -> 100, B -> 20, C -> 200, D -> 10 € → 30, F → 150, G - 300, That Binary Tree is Je 1906 (100) (200)

