## question-1

DIn-order:

A-K-B-J-C-I-L-D-E-F-H-G

Pre-order:

L-K-A-J-B-C-J-H-F-D-F-G

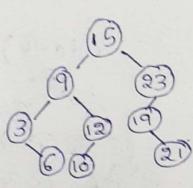
Post-order:

A>B>C>J>K>I>D>E>F>G>H+L

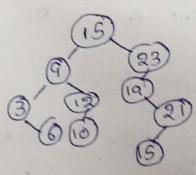
Breadth-first-order:

LAKAIAHAAJAEAFAGABACAO

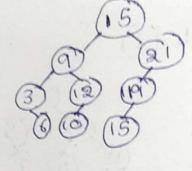
Add (6)



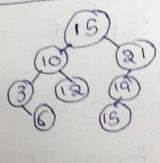
A dd -(15)



Delete (23)



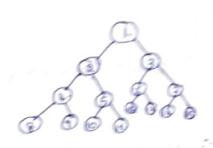
pelete =(9)



8- Height of Height of left sub-tree is right sub-tree =0

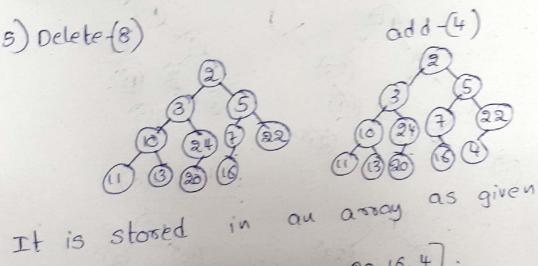
: The tree is AVL.

every internal made has too children targest number of modes = 15.



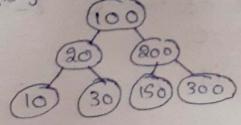
1, 2,3, 4,5,6,7 -> internal nodes 8,9,10,11,12,13,14,15 ->. leaf modes

4) The first value that will be printed in Pre-order traversal is root In binary search noot value is always greater than it's left child-Hence the given statement is wrong



「鬼」ろうら、10)なり、すりまえ、11,13,20,16,4). below;

The bivary search tree for Post order sequence-10,30,20,150,300,200,100



Thorder tooversal sequence, 0-1-2-3-4-5-6-3