14CST31- DATA STRUCTURES

ASSIGNMENT 1

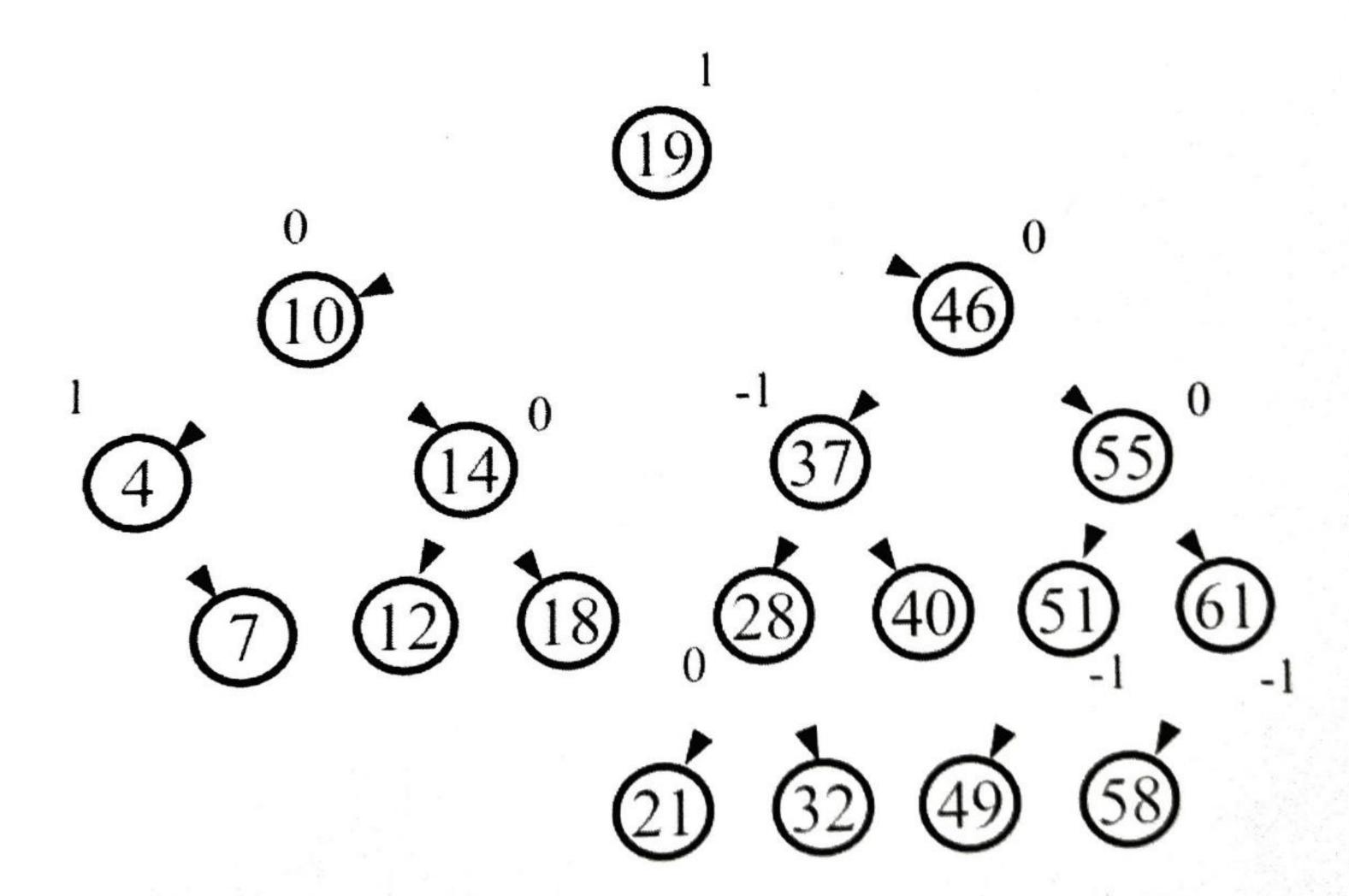
Convert the following infix expression into postfix expression and also evaluate the same.

8/2^3+4*5-8*3

2. Construct the Binary Search Tree for the following data. (5)

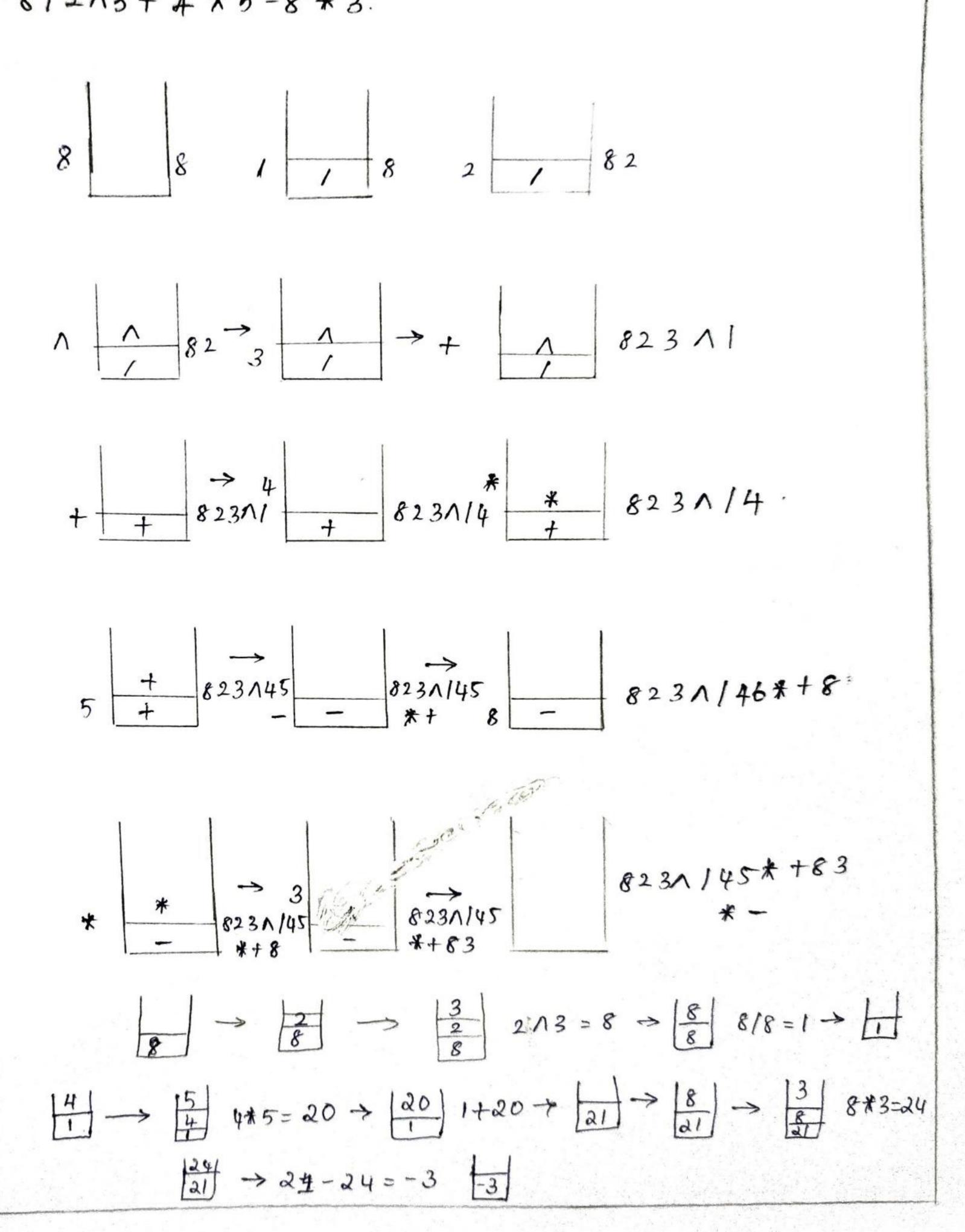
25 50 15 22 18 35 31 44 70 90 10 4 12 24 66

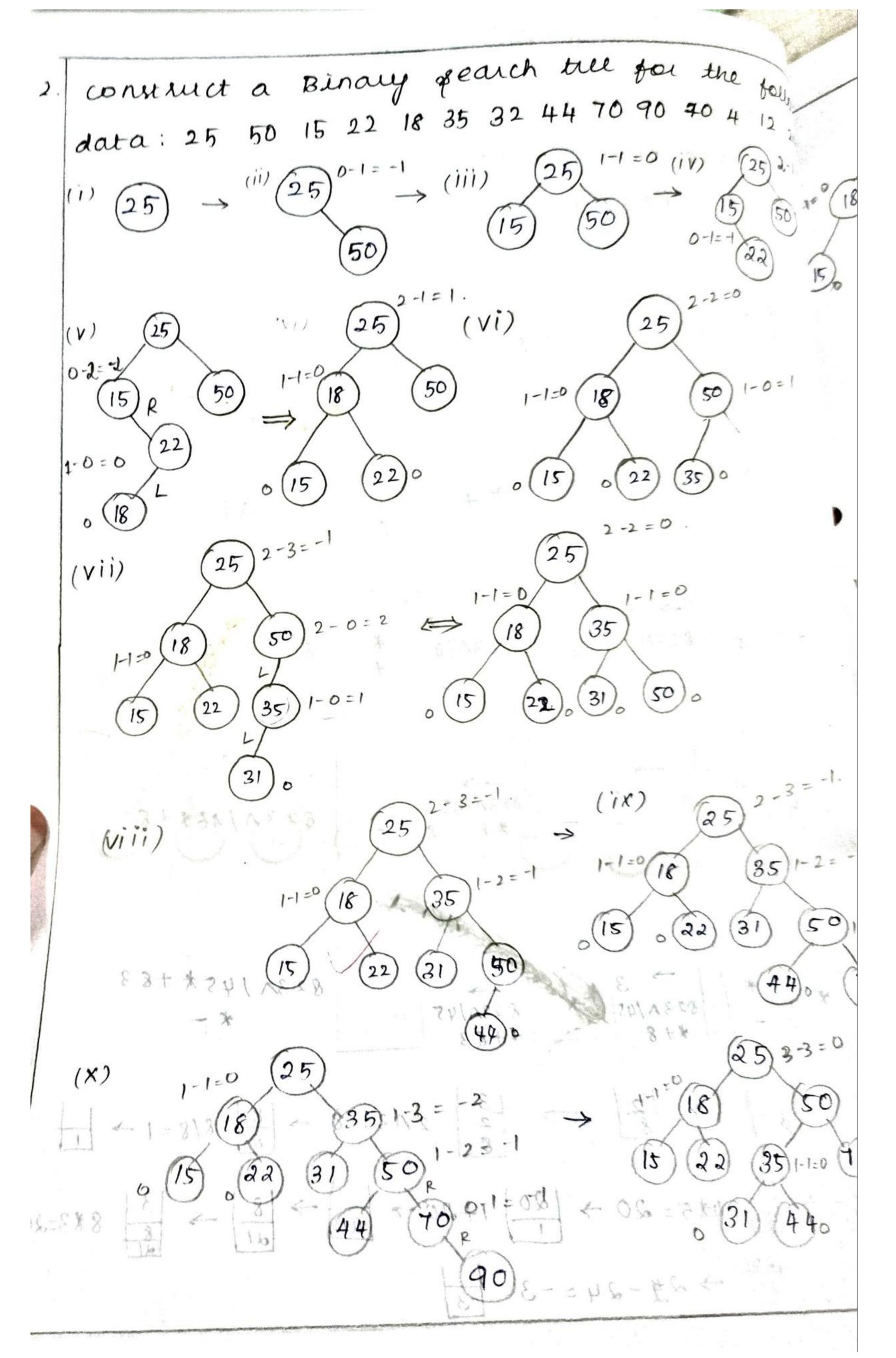
- Traverse the above Binary Search Tree using In-order, Pre-order and Post-order tree traversal. (6)
- 4. In the following AVL tree insert the numbers 11, 9, 6, 56, 20, 23 and delete 18, 58, 19, 28, 32.



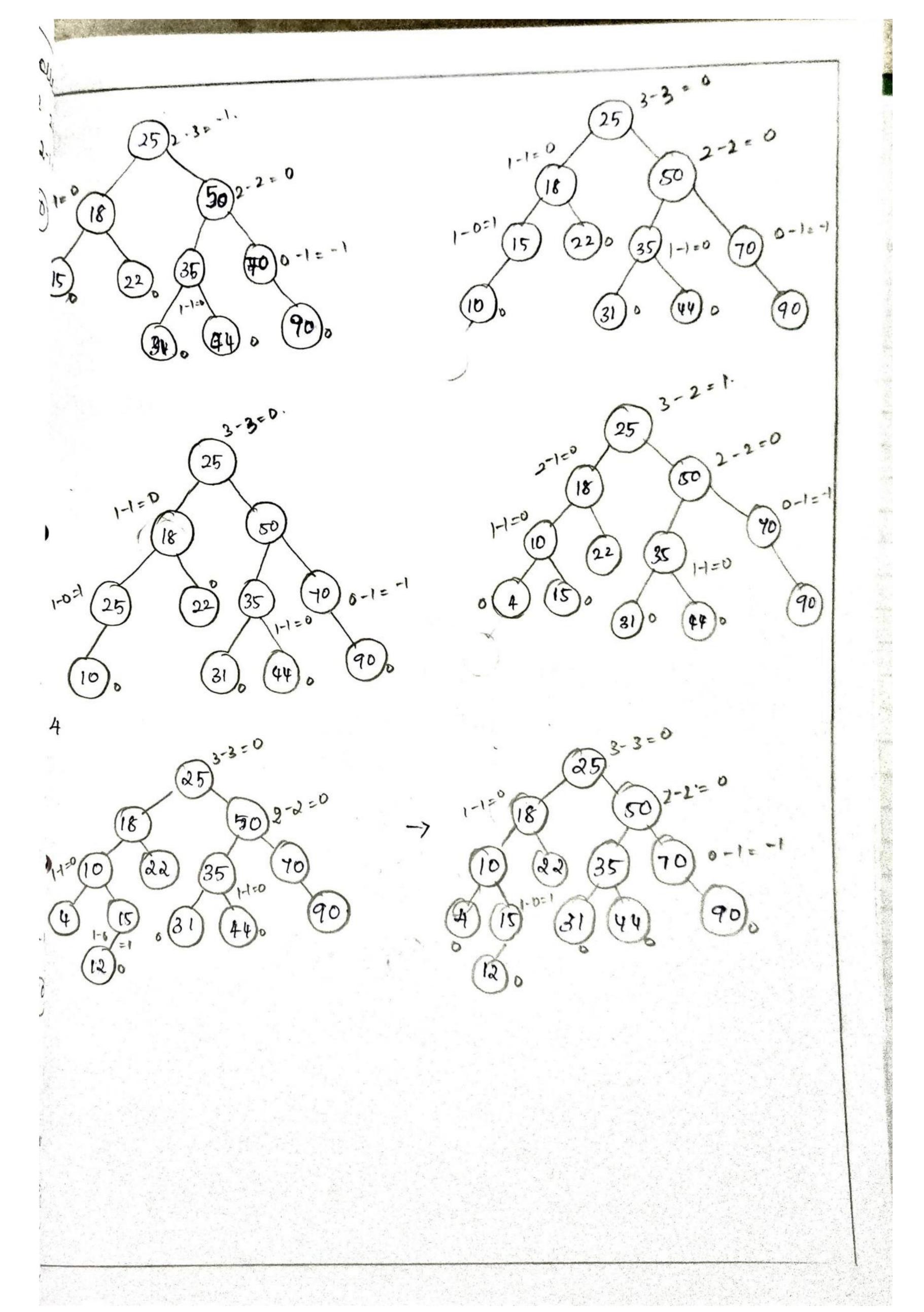
Assignment-2 Johnne

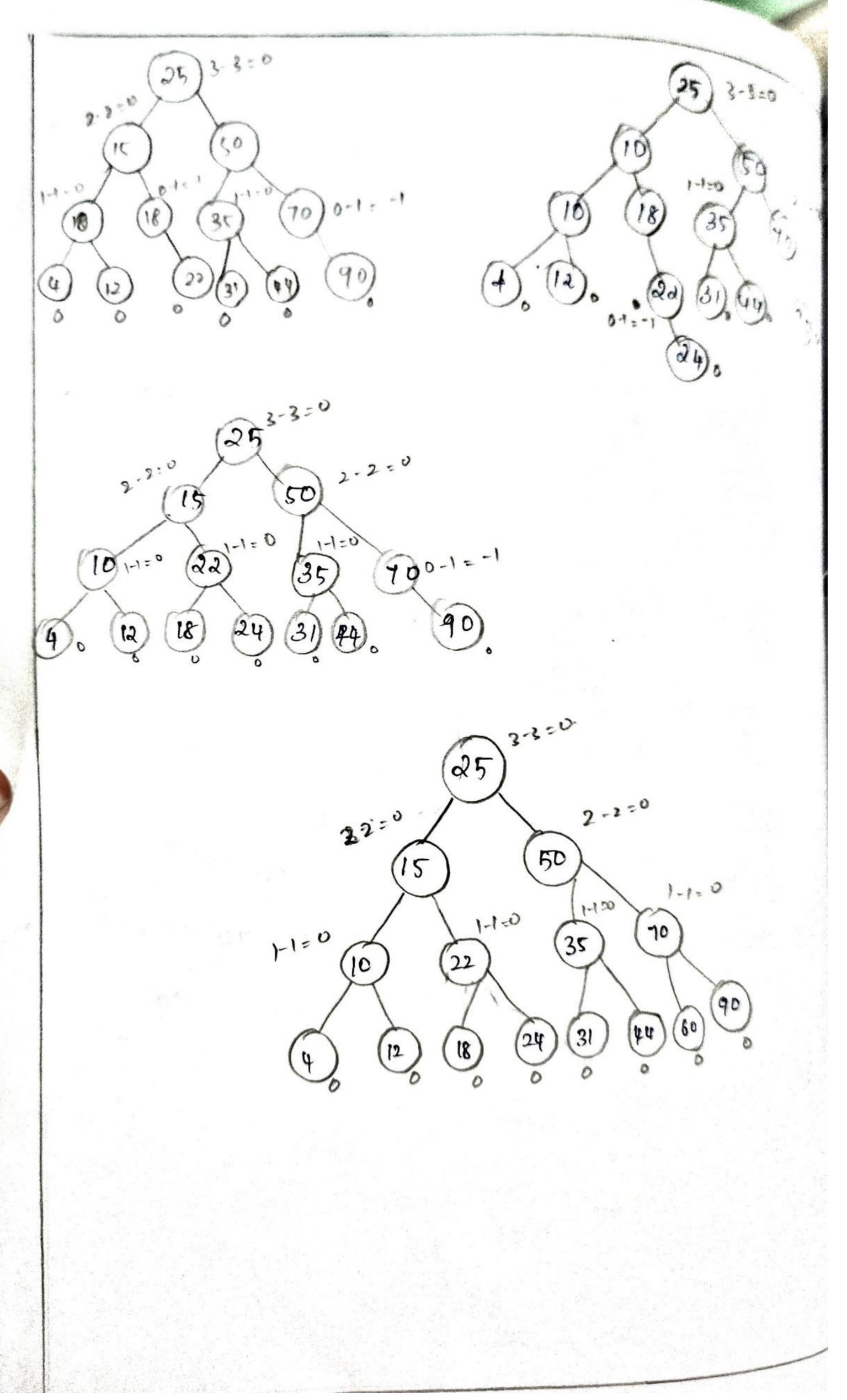
expression and also Evaluate the same (i) \$1213+4 \$5-8 * 3.





Scanned by TapScanner





Scanned by TapScanner

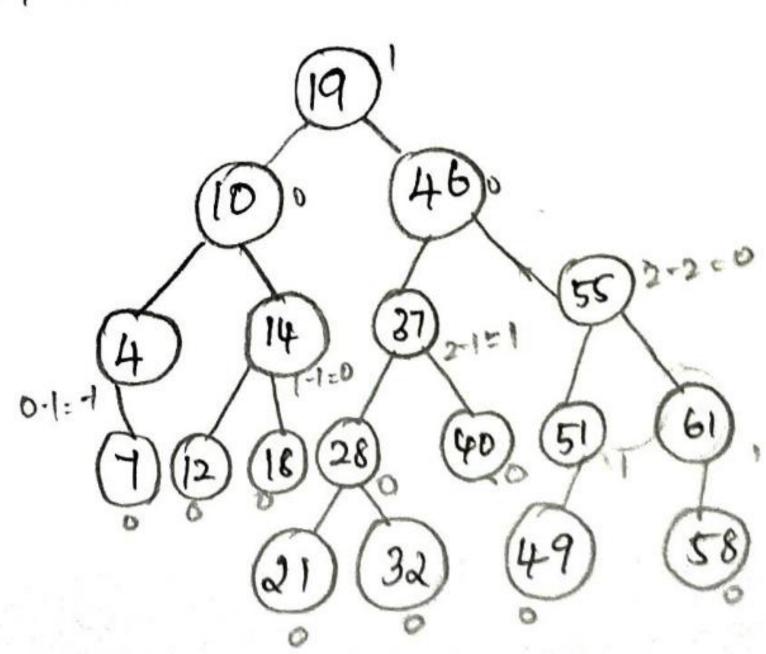
order, preorder post order tree transmerrar

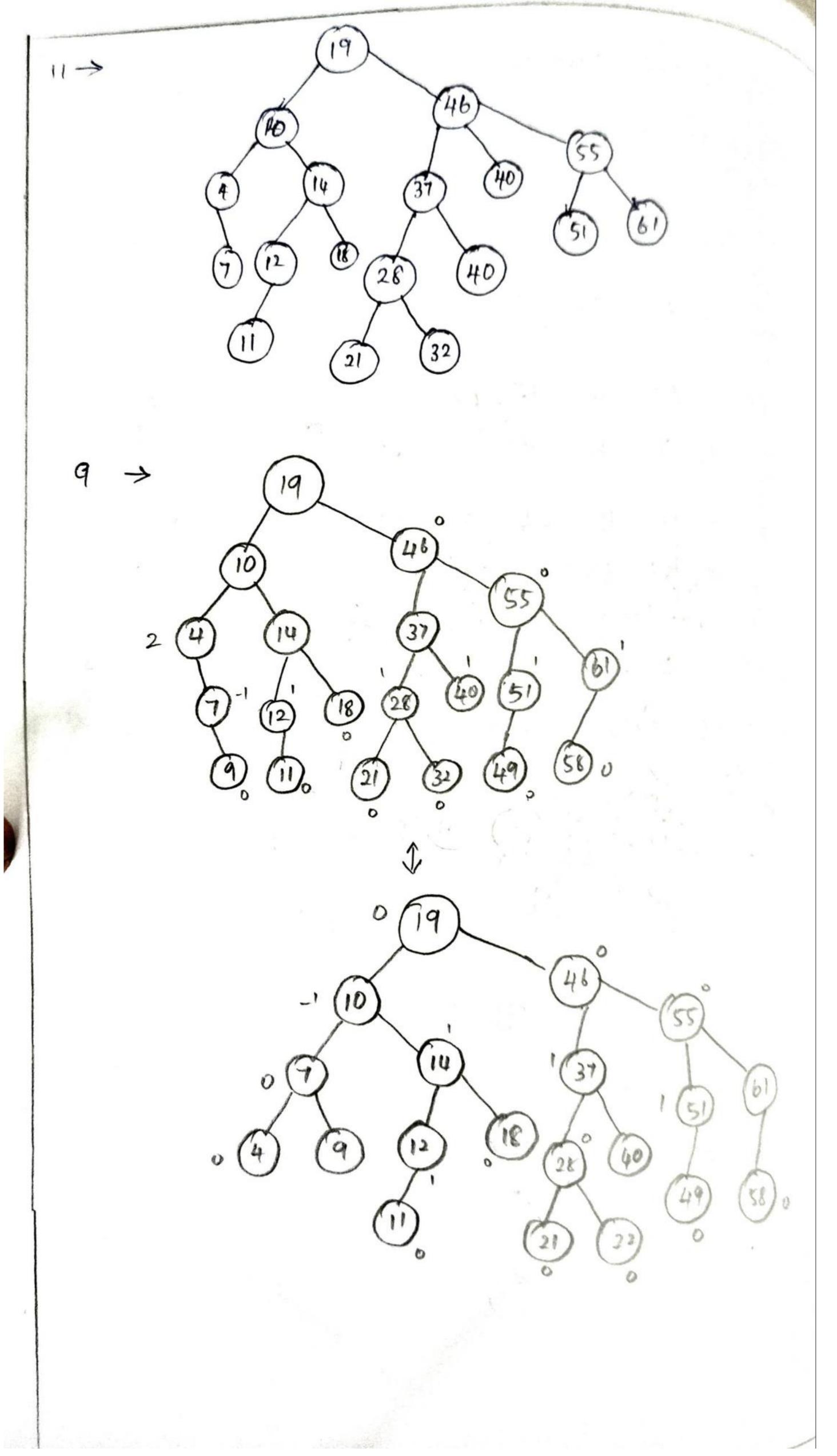
rorder: 4 10 12 15 18 12 24 25 31 35

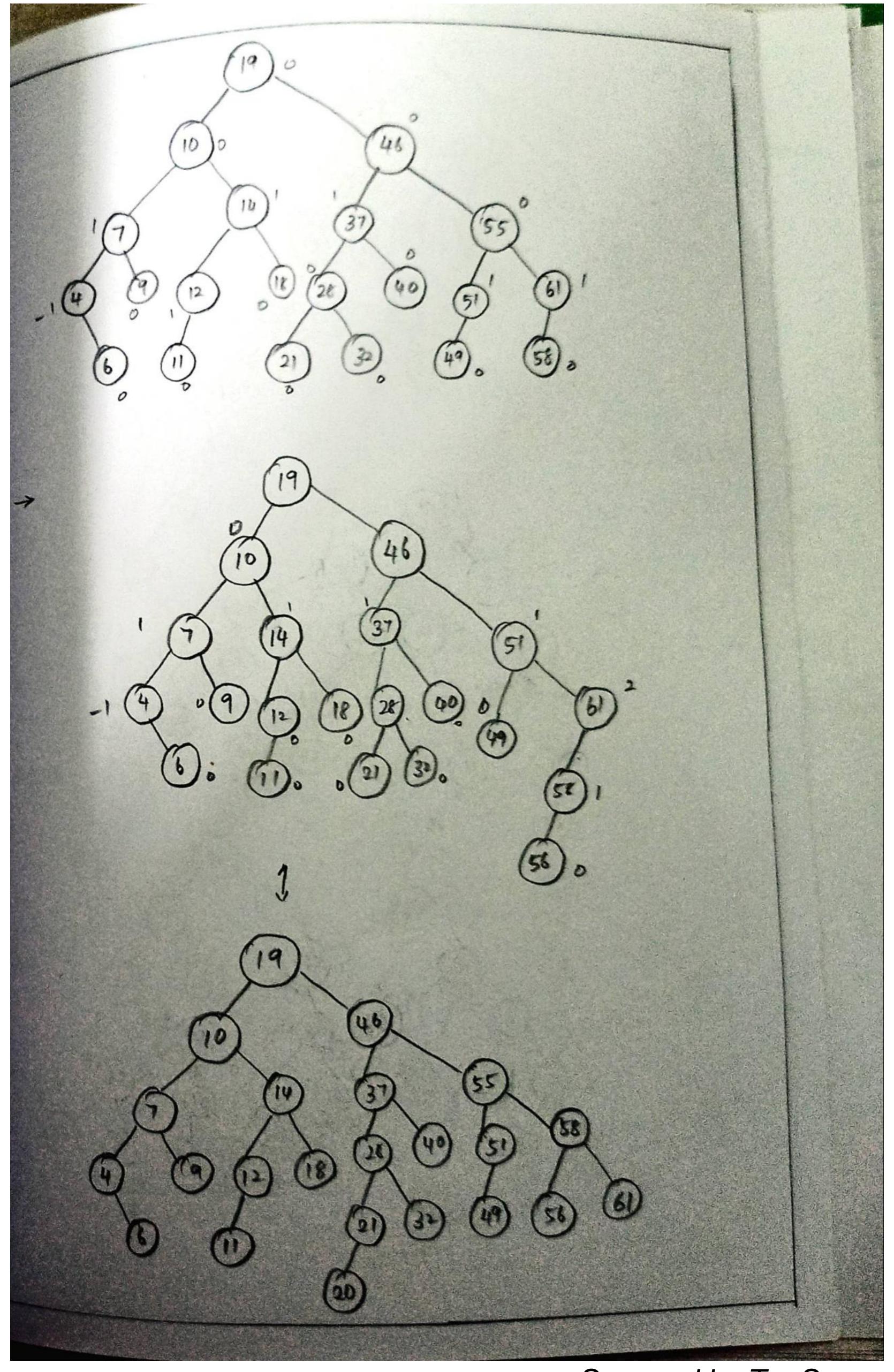
corder: 25 15 20 4 12 22 18 24 50 35

stordu: 4 12 10 18 24 22 25 31 44 35 66 90 70 60 25

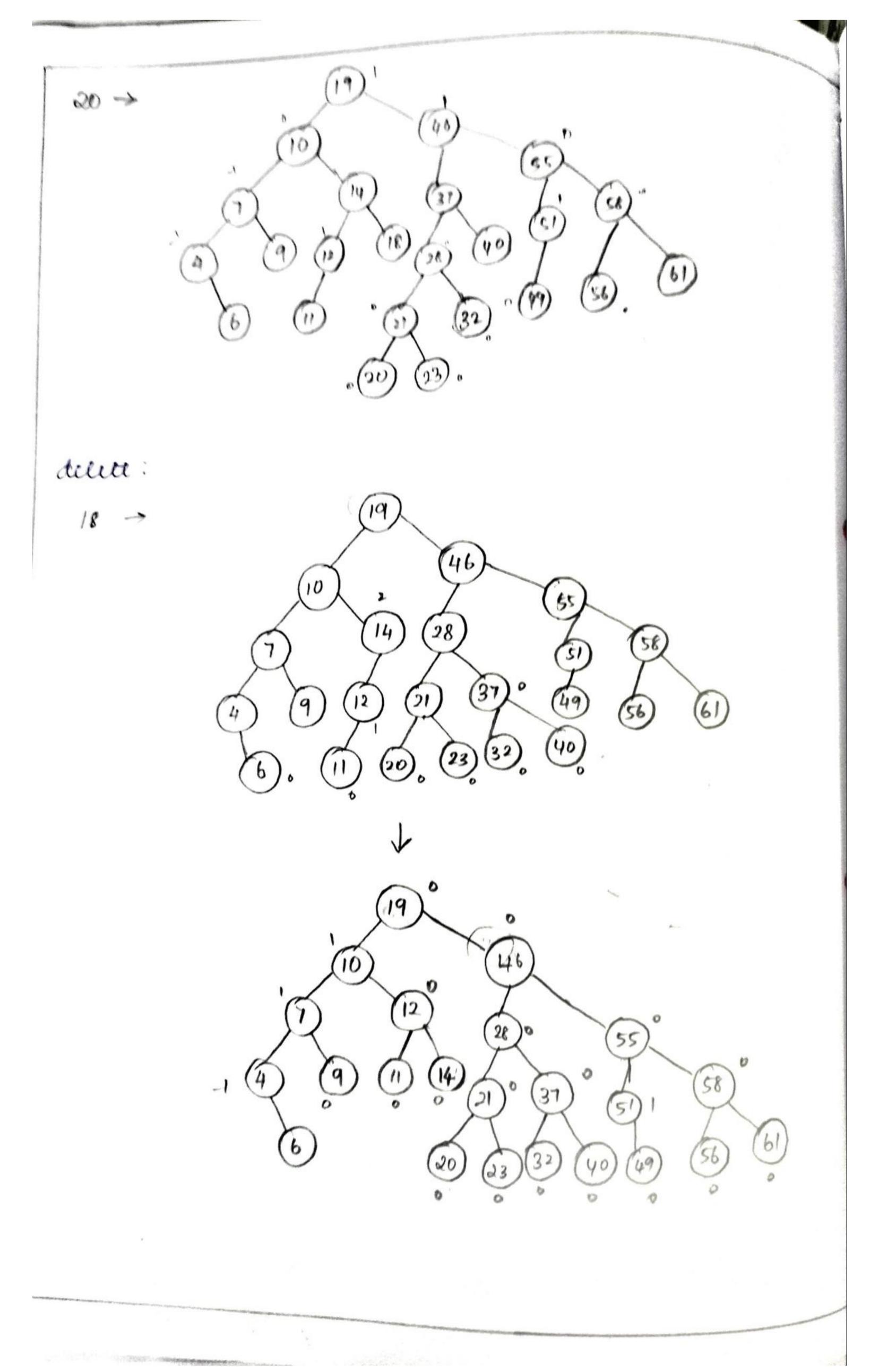
the following AVL true invert the numbers 9,6,56,20,25 and delete 18,58,19,28,32.

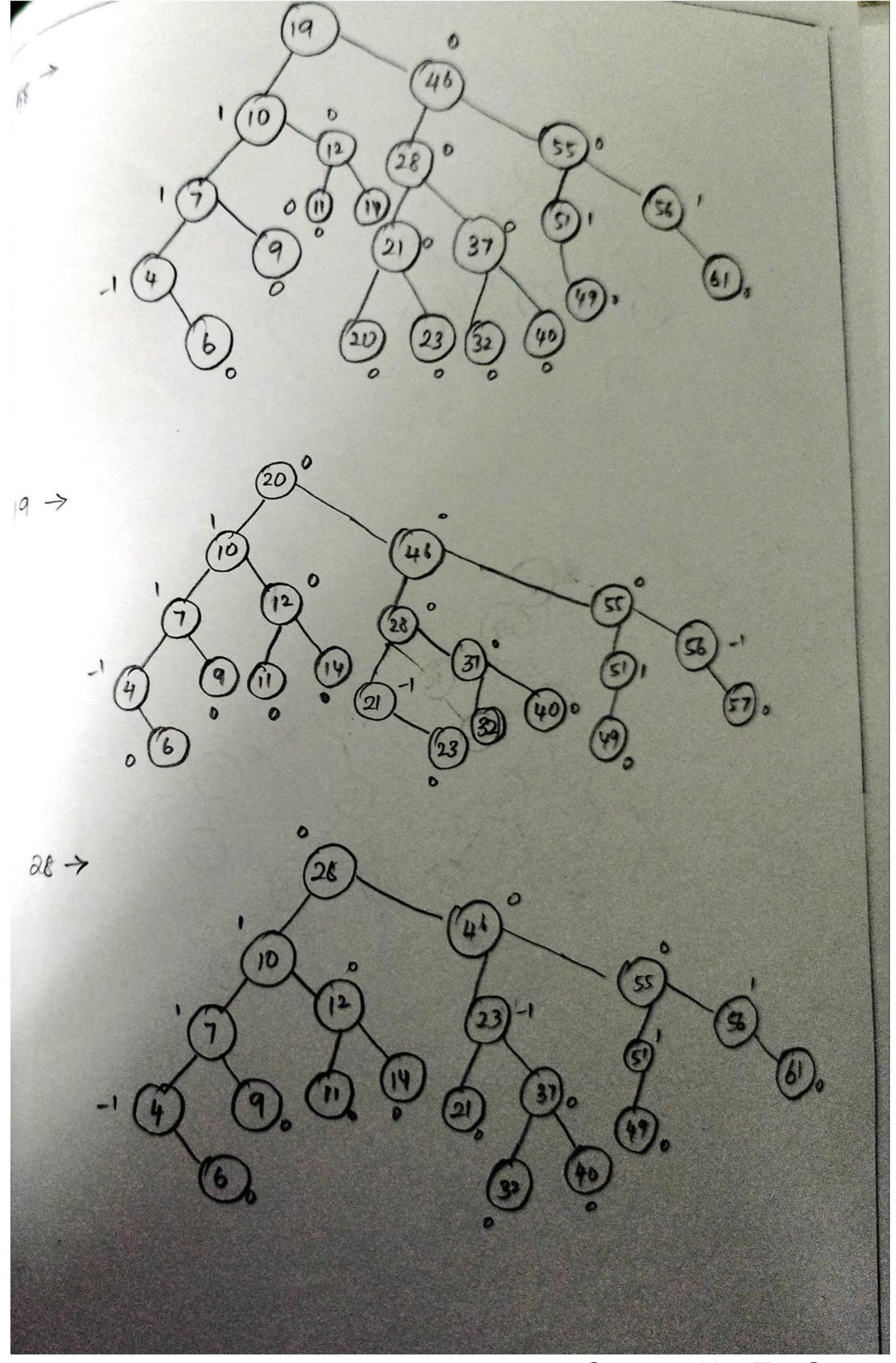




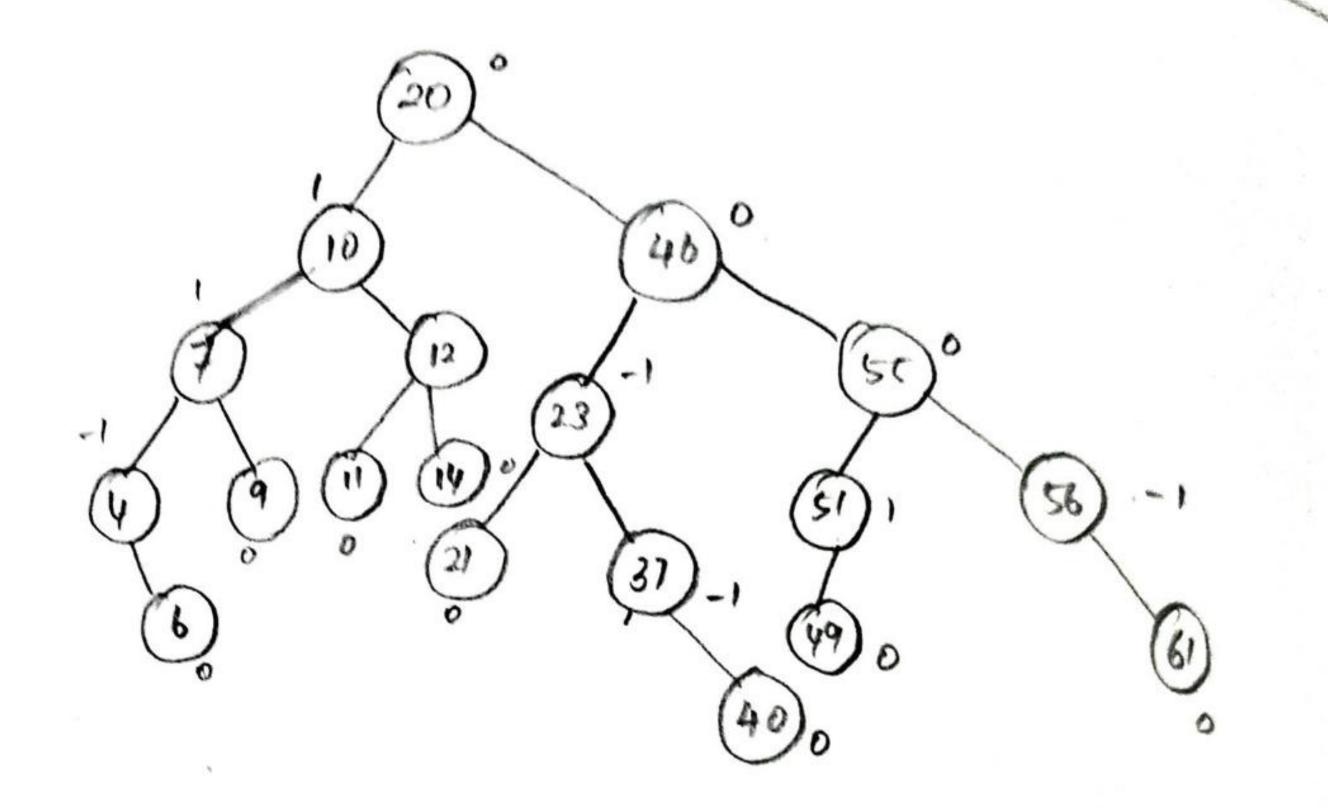


Scanned by TapScanner





Scanned by TapScanner



ANS :-

