

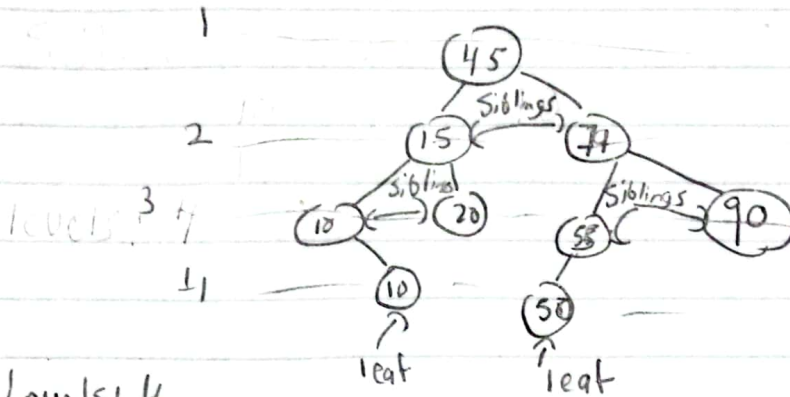
Q1) A)

Preorder: 45, 15, 10, 10, 20, 79, 55, 50, 90

In Order: 10, 10, 15, 20, 45, 50, 55, 79, 90

POST order: 10, 10, 20, 15, 50, 55, 90, 79, 45

B)



Levels: 4

Siblings: 15, 79

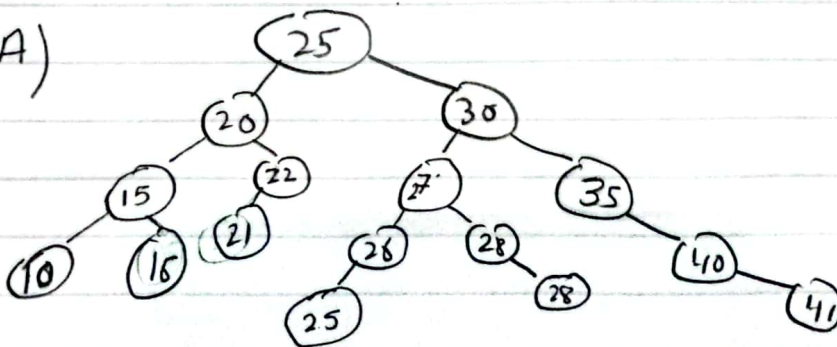
10, 20

55, 90

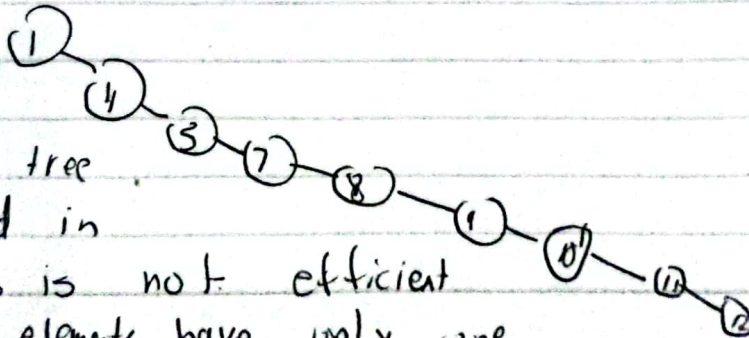
leaves: 10, 50

* This is a binary search tree

Q2) A)



b)



Yes, this tree is inserted in

order, This is not efficient

since all elements have only one child, so searching would take $O(n)$.