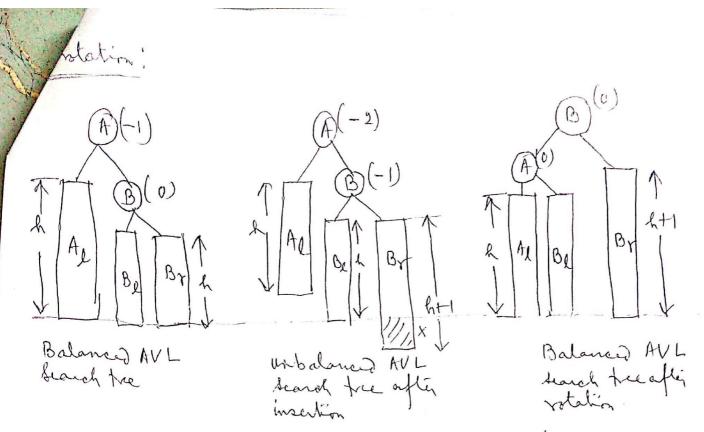
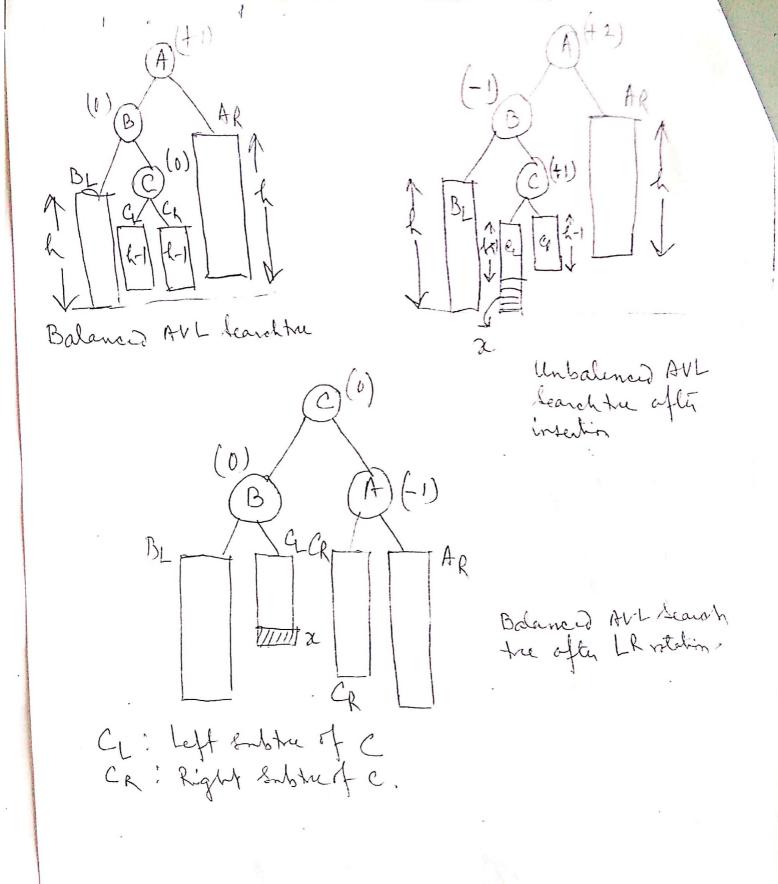
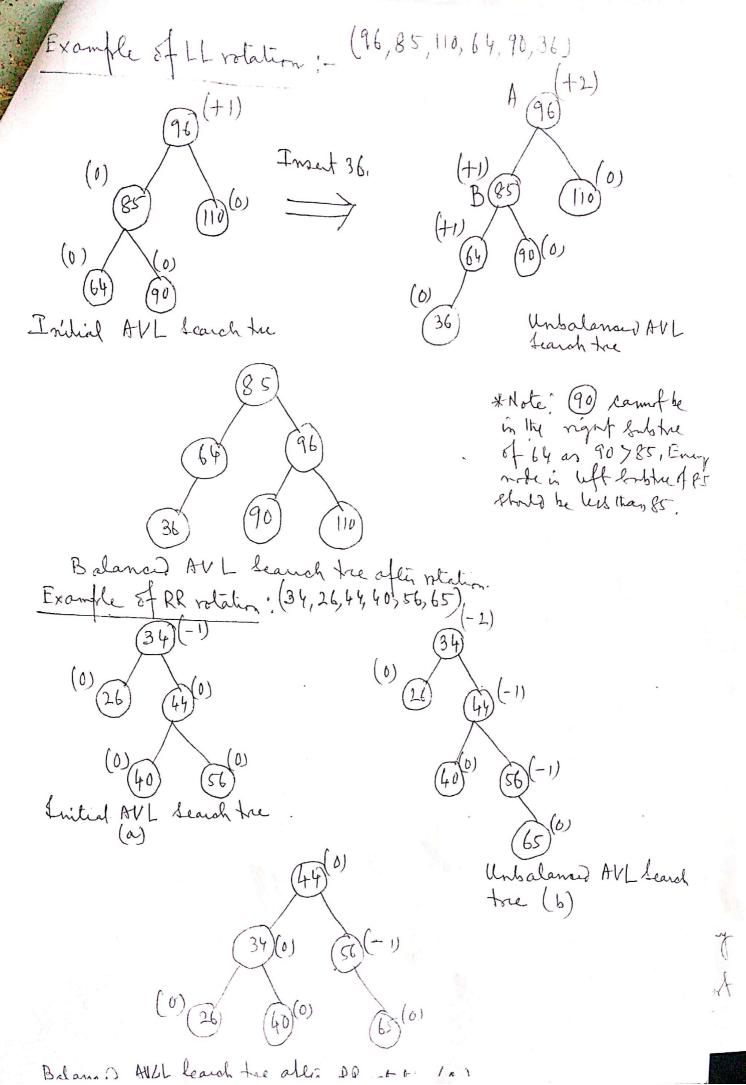
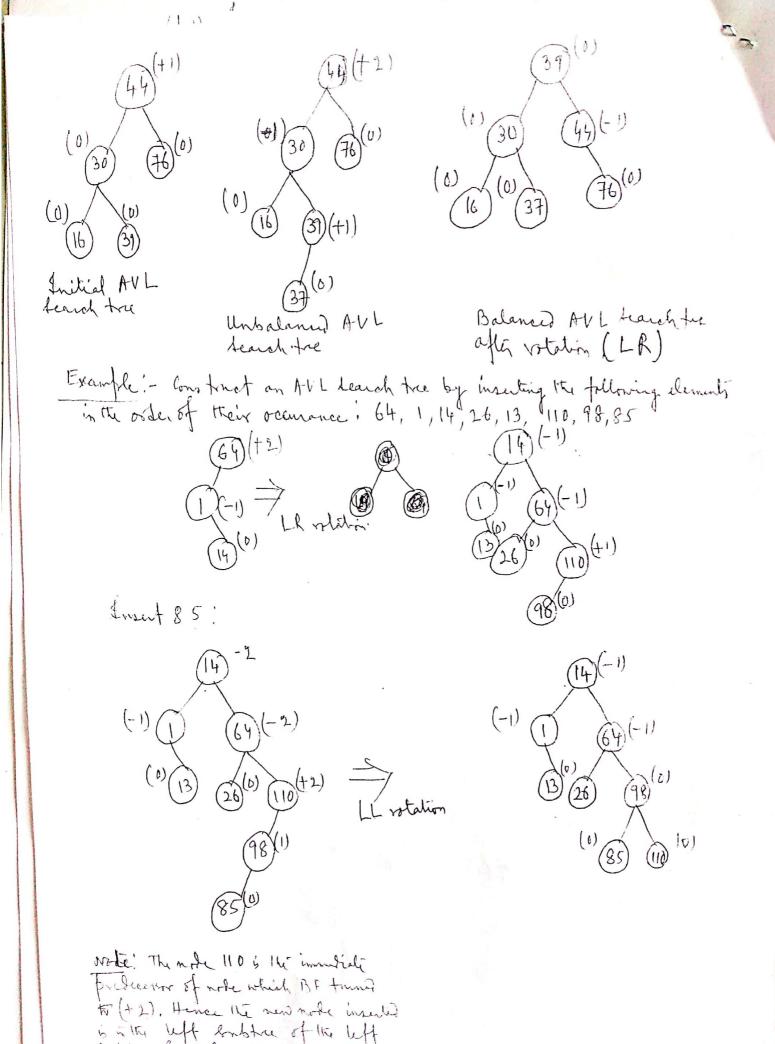
In order to perform rotations it is necessary to identif a specific mode A where OFIA) is neithing 0, or -1 or +1, and which's the meanest ancester to the inserted node on the frally from the inserted nobe to the root, They implies that all modes on the balk from the insuled node to A will have their I balance fooler to be either 0 pr 1 ur -1. The rebalencing are plassified as below, based on the position of the inserted nobe will reference to A. Lt votation ', Ensented node is in left subtre of left subtre of node A RR votation: Ensented nobe is in right subtree of right subtree of nobe 4 LR votation: Timented node is in right subtriet left subtreet model AL votation: Enserted mode in left Embreof right subtree if node A LL Breating; Balance AVL Unbalance AVL Search tre Balanced AVL Search free ofter Search free mation after votation Be -> left into the if B The new element X is inserted Br -> right Subtre EfB in the left, sombtre of left Ar > right And tre of A Subtre of A, the closest note whose BF(A) becomes h -> light height +2 after insertion. The boundaries Search tree, it is whater to allow B to be the mind will Be and A to be its right subject and right shill, and By and Ay are to be the left and right subtres of A.



The balancing of LR and RL methodogues are similar The balancing of LR and RL methodogues are similar in nature but are mirror images of one another. In this save in nature but are mirror images of one another. In this save in No DF nature of motes A and B after balancing are defendent on the DF nature of notice after insertion. It as DF(A) = DF(D) =0 after relation. If DF(C) =0 after insertion than DF(A) = DF(D) =0 after relation. If DF(C) = 1 after insertion than DF(A) = -1, DF(D) =0, after relation of DF(C) = 1 after insertion than DF(A) = -1, DF(D) =0, after relation of DF(C) = 1 after insertion than DF(A) = -1, DF(D) =0, after relation of DF(C) = 1 after insertion and DF(DF) = -1, DF(D) =0 after relation of DF(DF) = -1, DF(DF) = -1







broke of note 18.