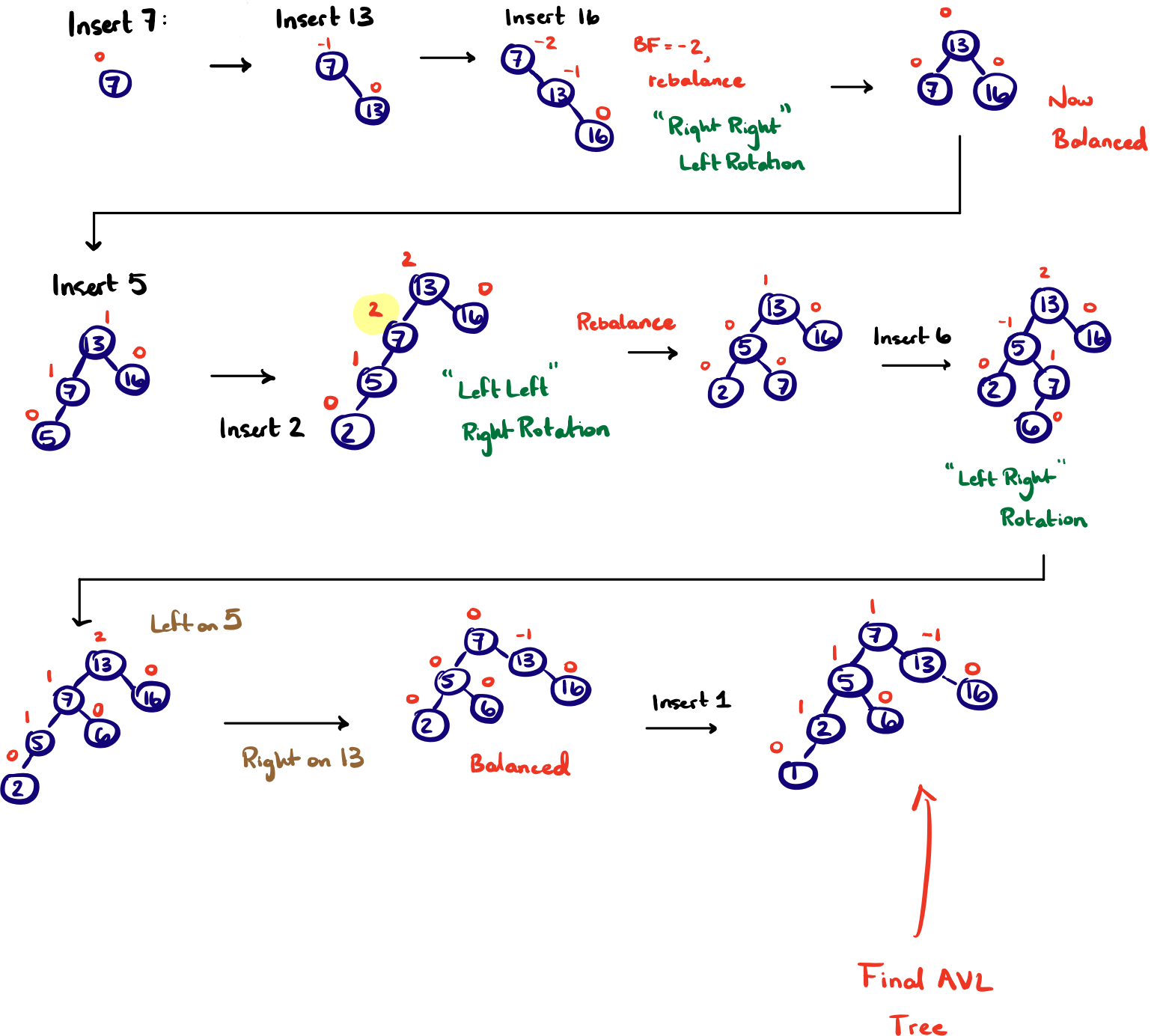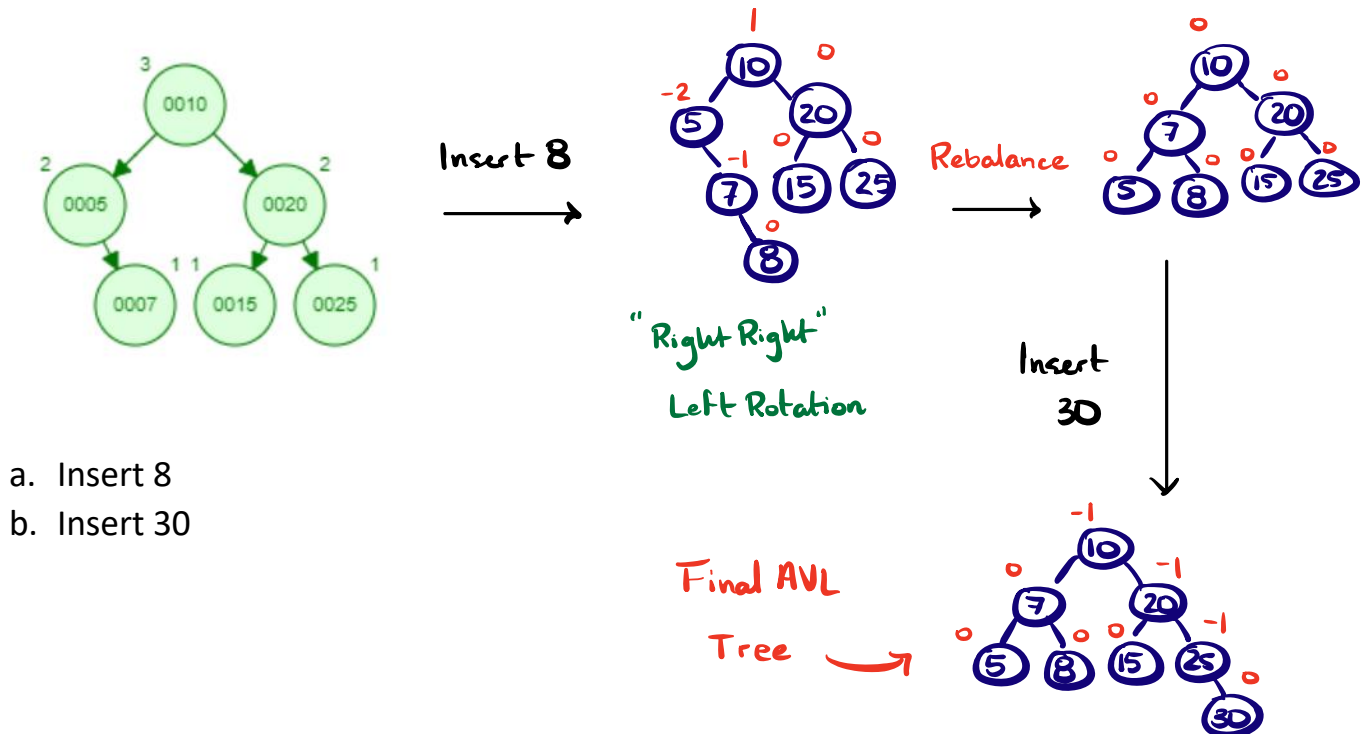# AVL Tree

1) Insert the following sequence to an AVL and show every tree upon self-balancing (after the tree balances itself) Also include the case for the balancing (LL, RR, LR, RL).

7, 13, 16, 5, 7, 5, 1

2)Given AVL Tree, Trace the insertion of element and do appropriate self-balancing.

10, 20, 5, 15, 25, 7,

a. Insert 8
b. Insert 30

3)Perform the deletion of the value from the AVL tree. Trace the tree's state after the deletion, showing any balance factors and rotations that may be required.

a. remove 13