

**3) (10 pts) DSN (AVL Trees)**

(a) (8 pts) Create an AVL tree by inserting the following values into an initially empty AVL Tree in the order given: 7, 8, 54, 13, 35, 66, 50, and 12. Show the state of the tree after each insertion.

(b) (2 pts) Draw the state of the tree after the deletion of the node containing the value 7.