3) (10 pts) DSN (AVL Trees)

(a) (8 pts) Create an AVL tree by inserting the following values in the order given: 42, 68, 35, 1, 70, 25, 79, and 59. Show the state of the tree after each insertion. Draw a box around each of these 8 trees.

(b) (2 pts) Draw the state of the tree after the deletion of the node containing the value 79 from the tree at the end of part (a).