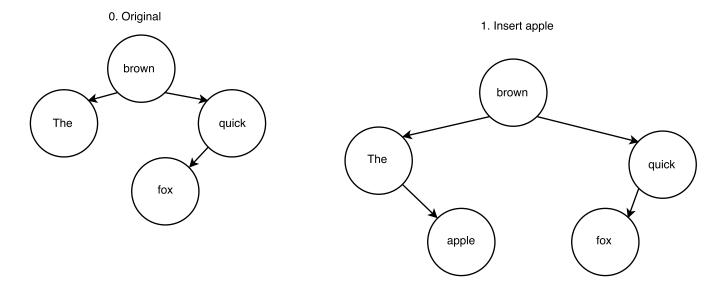
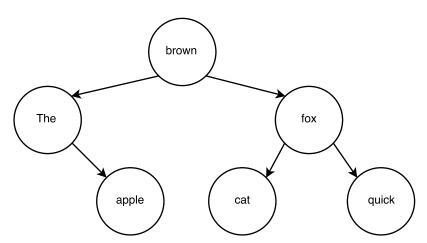
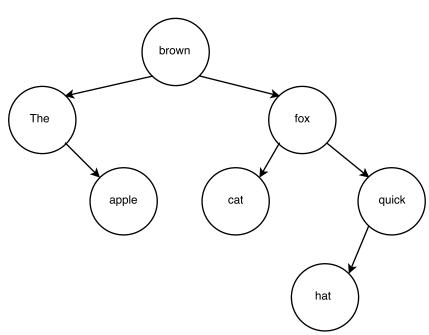
1. Show how the final AVL tree for the "The quick brown fox" changes as you insert "apple, "cat", and "hat" in that order.



2. Insert cat

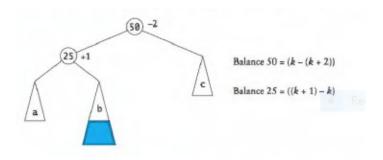


3. Insert hat

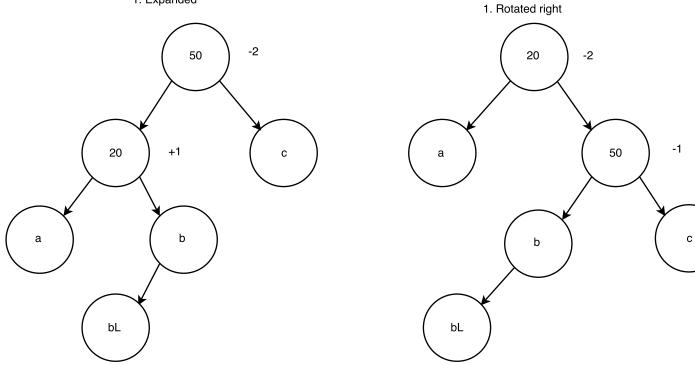


2. Show the effect of just rotating right on the tree in Figure 9.11. Why doesn't this fix the problem?

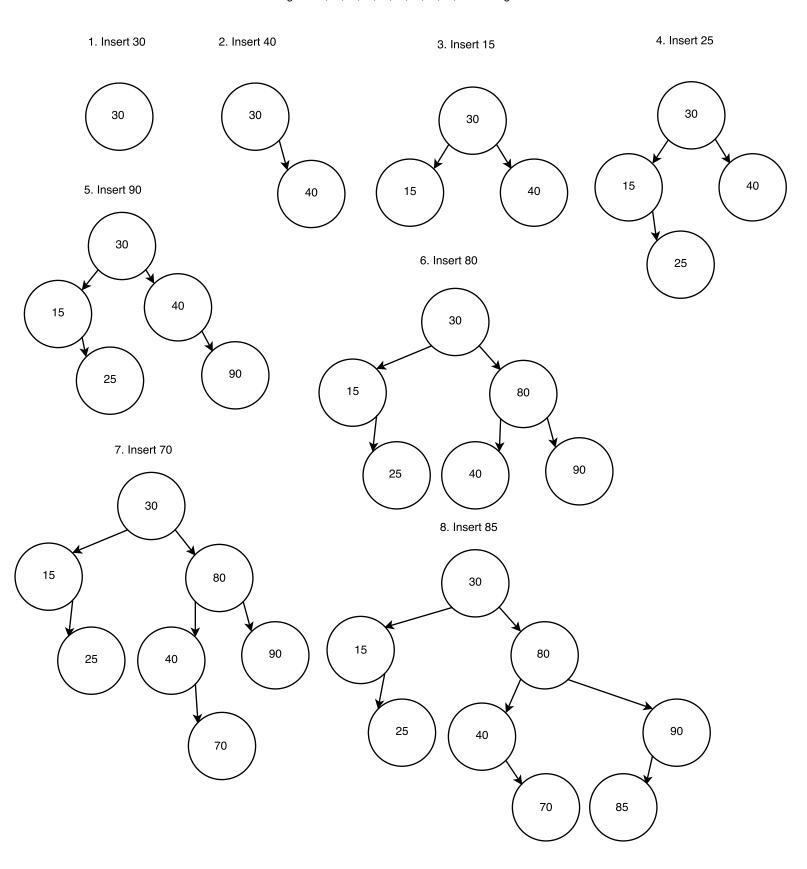
0. Original

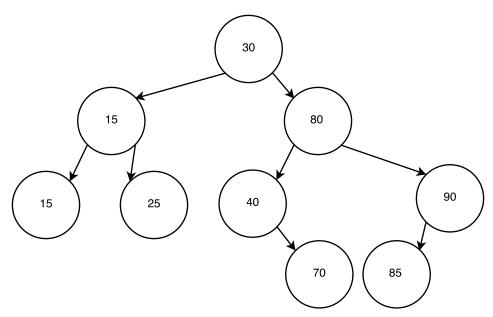




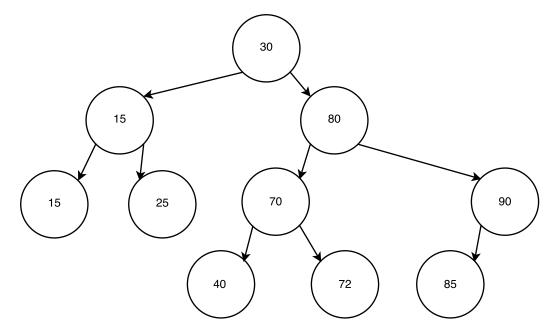


Rotating right failed to balance the tree because the root node remains unbalanced at -2 $\,$

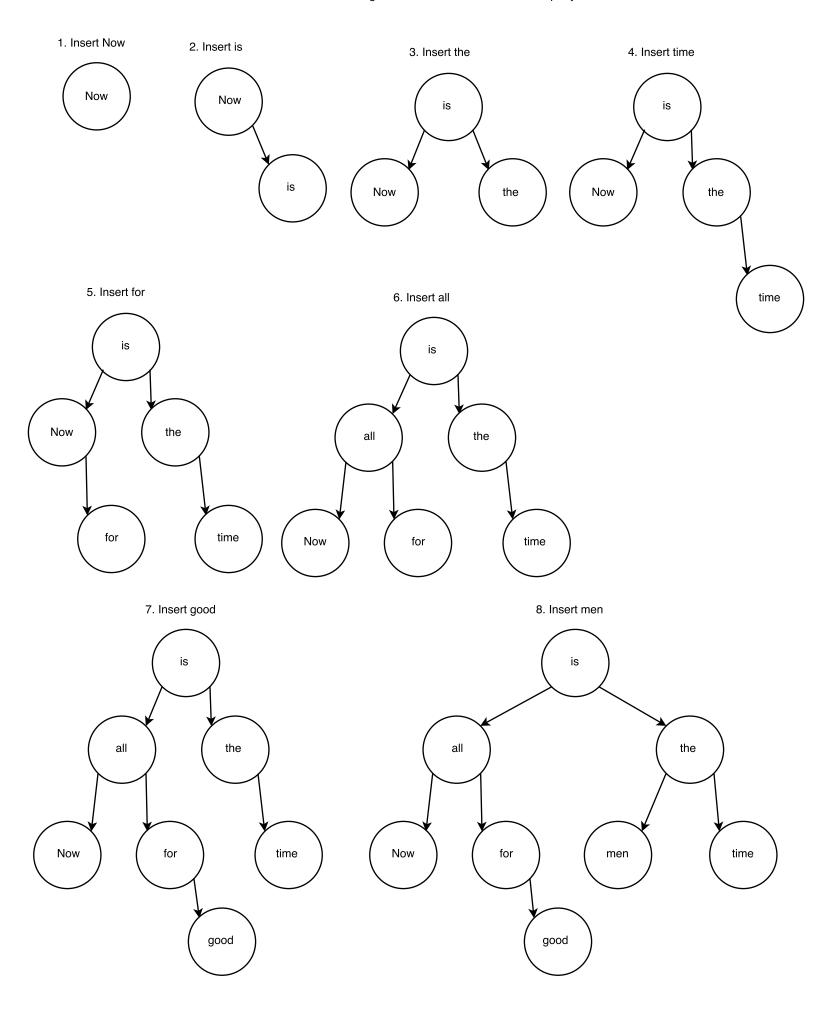


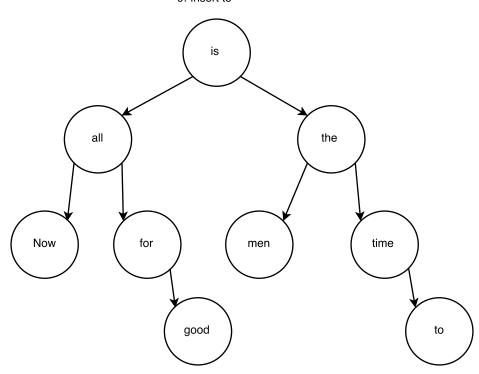


10. Insert 72

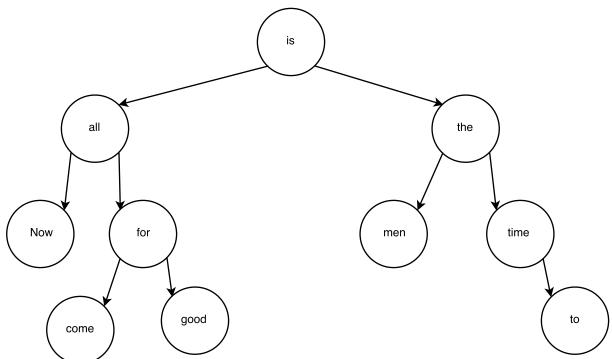


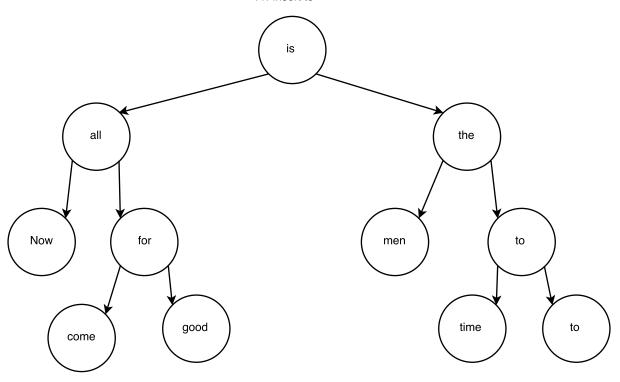
4. Build the AVL tree from the sentence "Now is the time for all good men to come to the aid of the party".



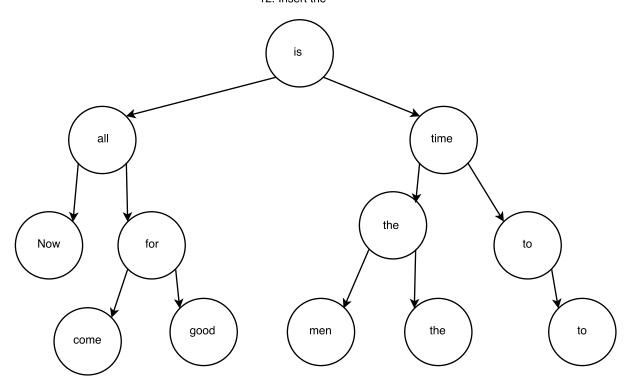












of

