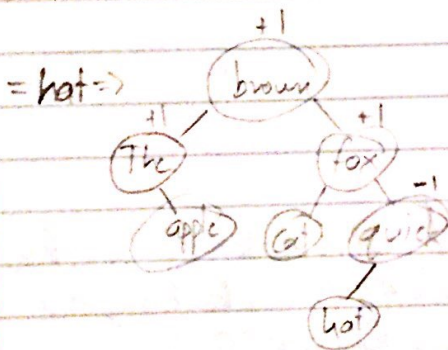
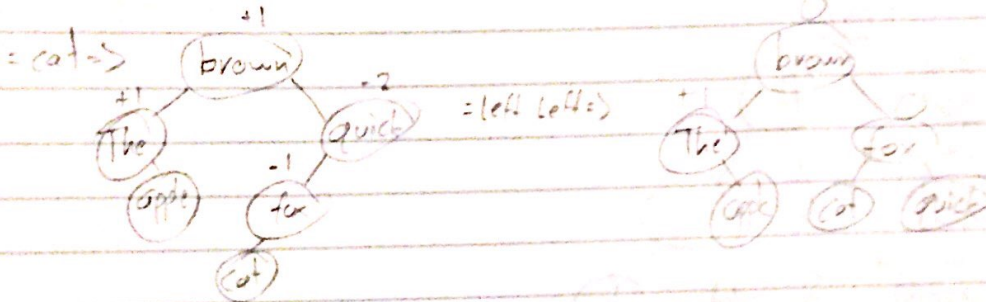
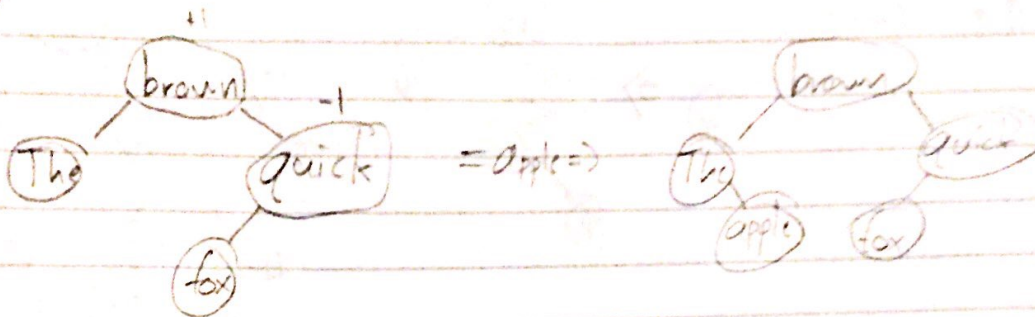


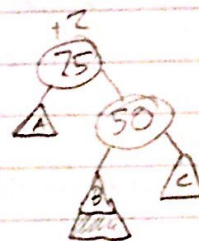
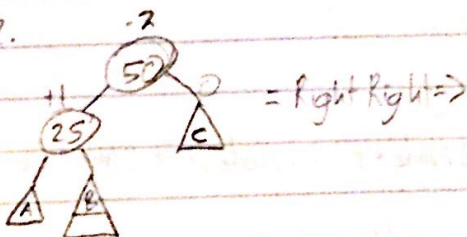
Lab 17

Self Checks

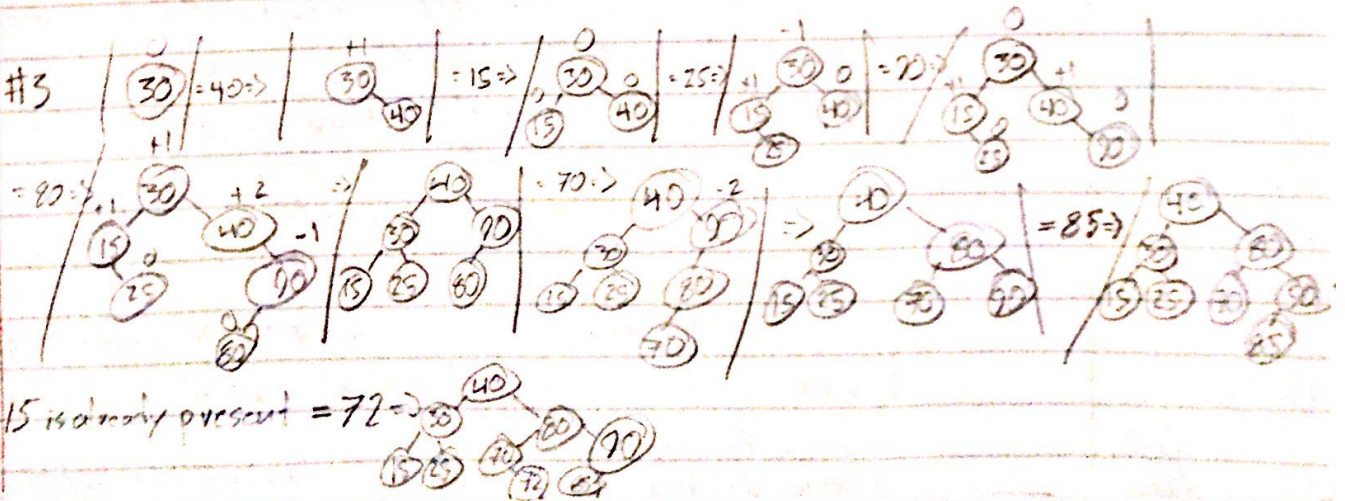
#1



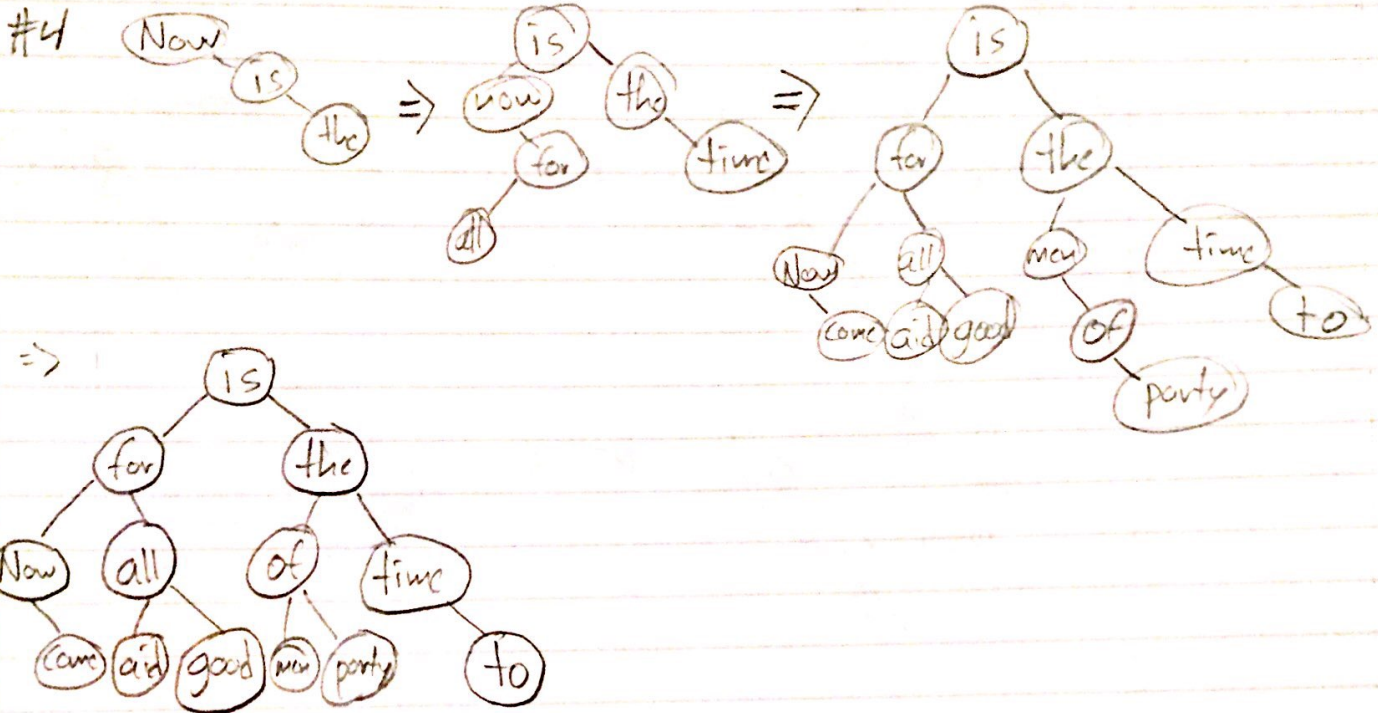
#2.



Rotating right only shifts the imbalance to the right side of the tree.



Self check:



Programming:

```

public void rebalanceRight (AVLNode<E> localRoot) {
    AVLNode<E> nextRight = (AVLNode<E>) localRoot.right;
    if (nextRight.balance > AVLNode.BALANCED) {
        decrementBalance(nextRight);
        decrementBalance(localRoot);
        decrementBalance(localRoot);
        return (AVLTree<E>.AVLNode<E>) rotateLeft(localRoot);
    } else {
        AVLNode<E> nextRightLeft = (AVLNode<E>) localRoot.right.left;
        incrementBalance((AVLNode<E>) localRoot.right);
        if (nextRightLeft.balance < AVLNode.BALANCED) {
            incrementBalance(nextRight);
            incrementBalance((AVLNode<E>) nextRightLeft);
        } else if (nextRightLeft.balance > AVLNode.BALANCED) {
            decrementBalance(localRoot);
            decrementBalance((AVLNode<E>) nextRightLeft);
        }
        localRoot.right = rotateRight(localRoot.right);
        decrementBalance(localRoot);
        decrementBalance(localRoot);
        return (AVLTree<E>.AVLNode<E>) rotateLeft(localRoot);
    }
}
  
```

else class
 ✓