

**These must be completed and shown to your lab TA by the start of your next lab.**

1. Download the AVL tree source files from the course web page under Lab 6. Complete the following function in `avl.cpp`:

```
void balance( Node *& x ) {  
    //  
    // Check if node x is unbalanced (i.e., the heights of its  
    // two children differ by more than one). If it is, rebalance  
    // at x using one of rotateLeft, rotateRight, doubleRotateLeft,  
    // or doubleRotateRight, whichever is appropriate.  
    //
```

Check that your output matches `output.txt`.