
These must be completed and shown to your lab TA either by the end of this lab, or at the start of your next lab. You may work in groups of up to two people.

1. Download the AVL tree code, `lab8.zip`, from the course web page under Lab 8.
2. 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.  
    //
```

3. Ensure that your code passes all twenty tests.
4. Be sure to show your work to your TA before you leave, or at the start of the next lab, or you will not receive credit for the lab!