- These must be completed and shown to your lab TA either by the end of this lab, or by the start of your next lab.
- You are required to work with a partner for this lab.

1. Download the AVL tree source files, `lab6.zip`, from the course web page under Lab 6.
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. Check that your output matches `output.txt`.

   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!