

**Computer Science 1 – Program 5**  
***KnightsHoc Internet Share (Binary Search Trees)***  
**Assigned: 3/21/12**  
**Due: 4/6/12 (Friday) by 11:55pm (WebCourses time)**

**Grading Criteria**

**Implementation Restrictions + Code Points(25 pts)**

Structs to support a BSTnode and links are declared (5 pts)

Appropriate functions to operate on the BST are used (10 pts)

Implements all of the commands detailed in the write-up (10 pts)

**Execution Points (60 pts)**

10 points for not crashing. (No matter how incomplete the program is, if it doesn't crash it earns these 10 points. If it does crash, no matter how complete the program is it loses these 10 points.)

**Remaining 50 points:**

The test file is somewhat large. You will NEED to use Winmerge (a file comparison tool) for this program. Open two files in Winmerge: the correct output and the student's output. If Winmerge says the two files are identical, the student gets the full 50 points. Otherwise, you need to determine how many lines are wrong. Once Winmerge opens two files, and assuming they are NOT identical, Winmerge shows the # of lines that are different in the lower right corner. Additionally, there are 11445 lines in the correct output. So if the # of lines different is 2037, divide that number by 11445 to get the % of lines different.  $2037/11445 = 17.8\%$  different, or 82.2% the same. So award 82.2% of the 50 remaining execution points, which equates to 41 pts (round UP).

**Note:**

Unlike Program 4, this method of grading should be sufficient for this program since this is NOT a simulation.

***If the program doesn't compile, do the following:***

*Try to fix it for 5 minutes. If you can get it to compile, take off points for the errors (you decide how many) and then grade the running program. If you can't, award at most 20 of the execution points by looking at the code.*

**Style Points (15 pts)**

Header comment w/name, program, date – 4 pts

Appropriate variable names – 2 pts

Appropriate use of white space – 2 pts

Appropriate indenting – 2 pts

Comments in code – 5 pts