Group Leader: Elizabeth McClellan

Group Tester: Drew Aaron

Group Requirement Leader: Andrew Hamilton

Group Documenter: Michael Beaver

Course: CS 355

Semester: Fall 2012

Date: September 26, 2012

**Group Meeting Minutes**

Members in attendance: Drew Aaron, Michael Beaver, Andrew Hamilton, and Elizabeth McClellan (via Skype)

Time met: 4:00pm to 6:30pm

Agenda: Incorporate ClearList; incorporate Find; discuss ways to implement GoToNext

Michael implemented a recursive ClearList method and helper routine. His implementation mimicked the Post-Order method. His recursive implementations were incorporated into the project.

Andrew implemented an iterative Find method. His implementation runs in logarithmic time, so it would have been pointless to try to implement a different recursive method. Hence, Andrew’s implementation was incorporated into the project. Later, Michael streamlined the implementation by removing excess code.

The group spent the majority of the meeting trying to determine the best way to implement the GoToNext method. An iterative approach was suggested, but it quickly proved inadequate. Then the group tried various recursive implementations, which used trip-flags to determine when to exit the recursive calls. However, while these implementations worked on some BST cases, they did not work for all cases. It was proposed that a dynamic array be used to store the BST. The idea was that the BST is input into the dynamic array, the next value in the BST is the immediate value after the cursor in the dynamic array. However, this approach could prove costly with large BSTs. Furthermore, using a dynamic array would cause wasteful allocations of memory: All the values preceding the cursor would be unnecessarily allocated into the dynamic array.

Despite this, the group was very close to having a working implementation of GoToNext. Drew kept working on an iterative version while Michael and Andrew kept trying recursive approaches. Michael finally completed the GoToNext method later that evening.