Name: Matt Moore

Assignment: 7

Submission and Compilation

• Builds and Compiles Successfully

Complete & Correct: 25/25

• Unit Test Results:

```
[======] Running 14 tests from 1 test case.
[-----] Global test environment set-up.
            14 tests from BSTCollectionTest
[ RUN
          ] BSTCollectionTest.CorrectSize
       OK ] BSTCollectionTest.CorrectSize (0 ms)
「 RUN
           ] BSTCollectionTest.SimpleFind
       OK ] BSTCollectionTest.SimpleFind (0 ms)
RUN
          ] BSTCollectionTest.SimpleRemove
       OK ] BSTCollectionTest.SimpleRemove (0 ms)
 RUN
           ] \ \ {\tt BSTCollectionTest.SimpleRange}
       OK ] BSTCollectionTest.SimpleRange (0 ms)
[ RUN
          ] {\tt BSTCollectionTest.SimpleSort}
       OK ] BSTCollectionTest.SimpleSort (0 ms)
RUN
           ] BSTCollectionTest.ResizeTest
       OK ] BSTCollectionTest.ResizeTest (0 ms)
RUN
           ] \ \ {\tt BSTCollectionTest.CopyAndAssignment}
       OK ] BSTCollectionTest.CopyAndAssignment (0 ms)
[ RUN
           ] \ \ BSTCollection Test. Remove Node With Two Children
       OK ] BSTCollectionTest.RemoveNodeWithTwoChildren (0 ms)
[ RUN
          ] BSTCollectionTest.RemoveNodeWithTwoChildrenWithLeft
       {\tt OK~]~BSTCollectionTest.RemoveNodeWithTwoChildrenWithLeft~(0~ms)}\\
「 RUN
           ] BSTCollectionTest.SimpleHeight
       OK ] BSTCollectionTest.SimpleHeight (0 ms)
「 RUN
           ] BSTCollectionTest.RemoveRL
       OK ] BSTCollectionTest.RemoveRL (0 ms)
 RUN
            BSTCollectionTest.RemoveLL
       OK ] BSTCollectionTest.RemoveLL (0 ms)
 RUN
           ] BSTCollectionTest.RandomeRemove
       OK ] BSTCollectionTest.RandomeRemove (0 ms)
 RUN
            {\tt BSTCollectionTest.LargeScaleSort}
       OK ] BSTCollectionTest.LargeScaleSort (0 ms)
            14 tests from BSTCollectionTest (0 ms total)
       ----] Global test environment tear-down
   ======] 14 tests from 1 test case ran. (0 ms total)
[ PASSED ] 14 tests.
```

• Performance Tests:

```
- Test 1: Finished in 60.5196 s
```

- Test 2: Finished in 66.8774 s
- Test 3: Finished in 65.5248 s
- Test 4: Finished in 63.5928 s
- Test 5: Finished in 67.5564 s
- Test 6: Finished in 19.356 s

Testing: 5/5

Format and Comments: 5/5
Discussion and Analysis: 4/5

• sort is O(n)

Total Score: 39/40