Name: *Matt Moore*

Assignment: 5

Submission and Compilation

- Builds and Compiles Successfully

Complete & Correct: /25

- Unit Test Results:

```
[==========] Running 20 tests from 4 test cases.
[----------] Global test environment set-up.
[----------] 6 tests from BasicArrayCollectionTest
[ RUN      ] BasicArrayCollectionTest.CorrectSize
[       OK ] BasicArrayCollectionTest.CorrectSize (0 ms)
[ RUN      ] BasicArrayCollectionTest.SimpleFind
[       OK ] BasicArrayCollectionTest.SimpleFind (0 ms)
[ RUN      ] BasicArrayCollectionTest.SimpleRemove
[       OK ] BasicArrayCollectionTest.SimpleRemove (0 ms)
[ RUN      ] BasicArrayCollectionTest.SimpleRange
[       OK ] BasicArrayCollectionTest.SimpleRange (0 ms)
[ RUN      ] BasicArrayCollectionTest.SimpleSort
[       OK ] BasicArrayCollectionTest.SimpleSort (0 ms)
[ RUN      ] BasicArrayCollectionTest.AddToFront
[       OK ] BasicArrayCollectionTest.AddToFront (0 ms)
[----------] 6 tests from BasicArrayCollectionTest (0 ms total)

[----------] 5 tests from BasicBinSearchCollectionTest
[ RUN      ] BasicBinSearchCollectionTest.CorrectSize
[       OK ] BasicBinSearchCollectionTest.CorrectSize (0 ms)
[ RUN      ] BasicBinSearchCollectionTest.SimpleFind
[       OK ] BasicBinSearchCollectionTest.SimpleFind (0 ms)
[ RUN      ] BasicBinSearchCollectionTest.SimpleRemove
[       OK ] BasicBinSearchCollectionTest.SimpleRemove (0 ms)
[ RUN      ] BasicBinSearchCollectionTest.SimpleRange
[       OK ] BasicBinSearchCollectionTest.SimpleRange (0 ms)
[ RUN      ] BasicBinSearchCollectionTest.SimpleSort
[       OK ] BasicBinSearchCollectionTest.SimpleSort (0 ms)
[----------] 5 tests from BasicBinSearchCollectionTest (0 ms total)

[----------] 5 tests from BinSearchCollection
[ RUN      ] BinSearchCollection.AddToFront
[       OK ] BinSearchCollection.AddToFront (0 ms)
[ RUN      ] BinSearchCollection.AddToEnd
[       OK ] BinSearchCollection.AddToEnd (0 ms)
[ RUN      ] BinSearchCollection.AddToMid
[       OK ] BinSearchCollection.AddToMid (0 ms)
[ RUN      ] BinSearchCollection.RemoveFront
[       OK ] BinSearchCollection.RemoveFront (0 ms)
[ RUN      ] BinSearchCollection.RemoveMid
[       OK ] BinSearchCollection.RemoveMid (0 ms)
[----------] 5 tests from BinSearchCollection (0 ms total)

[----------] 4 tests from ArrayListCollection
[ RUN      ] ArrayListCollection.AddToEnd
[       OK ] ArrayListCollection.AddToEnd (0 ms)
[ RUN      ] ArrayListCollection.AddToMid
[       OK ] ArrayListCollection.AddToMid (0 ms)
[ RUN      ] ArrayListCollection.RemoveFront
[       OK ] ArrayListCollection.RemoveFront (0 ms)
[ RUN      ] ArrayListCollection.RemoveMid
[       OK ] ArrayListCollection.RemoveMid (0 ms)
[----------] 4 tests from ArrayListCollection (0 ms total)

[----------] Global test environment tear-down
[==========] 20 tests from 4 test cases ran. (0 ms total)
```

```
[ PASSED ] 20 tests.
```

- Performance Tests:

    - Test 1: Finished in 35.4401 s
    - Test 2: Finished in 33.4902 s
    - Test 3: Finished in 33.7926 s
    - Test 4: Finished in 35.4841 s
    - Test 5: Error Code 134

        ```
        hw5perf: /home/bowers/svn/bowers/teaching/cpsc223-f20/grading/HW-5/hw5-matt1moore/hw5_perf.cpp:319:
        double sort(std::pair<int, std::__cxx11::basic_string<char> >*, int, int): Assertion 'val1 < val2' failed.
        Aborted (core dumped)
        ```

Testing: /5

Format and Comments: /5

Discussion and Analysis: /5

Total Score: 10/40

- Partial credit – revise and resubmit (issue with sort)