**CSE 330 Lab Report # 10**

1. I’ve completed 99% of the lab. I can’t get it to work with my own String class, but works fine with the STL string class.
2. Complexity Analysis

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| --- | --- | --- |
| **Function Name** | **Time Complexity** | **Storage Complexity** |
| Map() | O(1) | O(1) |
| Map::Find(const key & k) | O(log n) | O(1) |
| Map::Operator[](const key & k) | O(log n) | O(1) |
| Map::Erase(const key & k) | O(log n) | O(1) |
| Pair() | O(1) | O(1) |
| Pair(first, second) | O(1) | O(1) |
| Pair::operator==(rhs) | O(1) | O(1) |
| Pair::operator<=(rhs) | O(1) | O(1) |
| Pair::operator<(rhs) | O(1) | O(1) |
| Pair::operator>(rhs) | O(1) | O(1) |

3. See attached for source code