Project 3: Report

I. Administrative

Team Name: Team Rex

Team Members: Gage Zahn, Marcus Lugrand, Benjamin Weiss

GitHub URL:

Video:

II. Refined Proposal

III. Analysis

1. Change Log
2. Complexity Analysis

Map:

unordered\_map:

Function: Constructor

O(1) in all cases.

Function: insert

O(1) average and best case, O(n) worst case if a rehash is triggered.

Function: Search by Hand

O(1) best and average case, O(n) worst case since open addressing is used.

Function: Search by Quality

O(1) all cases.

Function: Access

O(1) best and average case, O(n) worst case.

IV. Reflection

V. References