4-2 Milestone: Unit Testing

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**Overview**

In this milestone, the testing framework used in C++ was perplexing to figure how it works when unit testing using Google Test. I first had followed the Visual Studios IDE guideline to import the existing code to the corresponding new project template created uniquely for Google Test. Then I went onto reviewing the test.cpp file that was provided to evaluate and plan different test executions before getting to learn the Google test framework. There I figured some signatures from Google Frameworks by reading the provided Google Test Premier document via GitHub, to further expand my knowledge of how asserts and expect methods work. As soon as I started to code on the TODOs, I realize that its repetitive to use the assertions signature into a method where I would previously use a particular program path that will input known values and verify the results as given in the below example:

Test(CollectionTest, VerifyResizeIncrease)

{

// Verify Empty

ASSERT\_EQ(collection-›size(), 0);

// Increase Size

collection-›resize(10);

// Confirm Increase

ASSERT \_EQ(collection-›size(), 10);

}

Therefore, I got familiar with Google Test framework and testing functions where I implemented two more tests prior to our choice. Although, it was challenging for the first one, but then I figured that I could create the same test structure, but for a different concept to figure if the correct results will be what is equal to be expected (EXPECT\_EQ()) to meet our specific criteria.

Text

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