Mitch Partee

IT 340 Spring ‘21

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Complexity Summary:

The Cyclomatic Complexity of all but one of the methods in the AreaCalculator Library is 1. The one method that is higher is the getSquareArea method with a string injected. That method has a complexity of 11 for a total complexity of 17.

Every other method in the whole project has a complexity of 1.

The two methods I chose for testing were the getSquareArea(string) and getSquareArea(int) methods. The string overloaded version only has a coverage of 90.7% due to only testing some of the string paths. The 9.3% of the code not covered was from the other 4 string possibilities handled by if-statements. I could have written tests for all ten, but I was shooting for the 90% code coverage.

The coverage for the int overload was 100%.

Short Narrative Summary:

The hardest part of this assignment for me is deciding how to test the methods. The issues I encountered were dealing with all the different input types and needing to Assert to a bool. I’m not even sure the way I chose to do it is right, but all of the tests passed and the logic is sound enough. The one question I keep asking is “How much is too much code for testing?” The 90% coverage seemed enough for this project, but I’m not convinced that it is for others.