

CMPSCI 187, Spring 2015 Discussion #11: Unit Testing a Graph Package: Response Sheet

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Names: _____

Each *pair* of students should hand in one response sheet.

Question 1: Write six (or more) short unit tests that demonstrate a mix of correct and incorrect behavior across the methods of `ArrayBasedGraph`. You don't need to look at the `ArrayBasedGraph` implementation to write tests for it, though you can examine it if you wish.

In total, your tests should exercise all methods and as many distinct behaviors as you can think of. But each test should exercise as small a set of methods and behaviors as possible — the idea being that if a unit test fails, it should be easy to identify the small section of code (the unit) causing the failure. The name of each test should make clear what behavior it is testing. Indicate whether the test passes or fails with the code we provided you. (You may alter the code to fix errors you find, but do not introduce new errors for the purpose of trivializing finding failing tests!).

Question 2: Adapt your tests to `CollectionBasedGraph`. Again, you don't need to look at or understand the implementation to write tests of the expected behaviors. Which pass and which fail?