

Lab 4

1. Test Driven Development is the process of writing tests to drive the development of your program. In essence you write the tests that your code needs to pass and then code as simply as you can to pass each test.
2. The claim that Test Driven Development increases confidence in coder's code is one that I agree with. TDD helps coders be sure not in the algorithm they use, but in the fact that they translated the algorithm to code properly. The claim that it improves code quality I think is a mixed bag, on one hand coding things as simply as you can to pass each test can make code legible and clean on the other hand it can end up with unnecessary if statements if the coder forgets to remove if statements that are placed early on in the coding process.
3. The advantages of TDD is that it makes you think of cases before coding, in essence it slows you down. It also makes it where you think of the simplest code possible for each solution which can make you trim down the algorithm you were using. The disadvantage is that it doesn't help you come up with an algorithm, which still has to be done on your own. It can give you a false sense of security in your code if your tests cases don't test all the edge cases.