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Lab 5

1. TDD is a method of development where test cases are written first, and changes to the code of the project should only happen to pass failing test cases or to refactor code.
2. I agree that TDD increases the confidence that software developers have in their code. The test cases reassure that the function is correct, and the fact that the test cases exist before the code is made ensures that problems in the code are fixed as early as possible. I also agree that it improves code quality, because the ability to see if the code works as soon as it is written fixes problems early, and reduces the likelihood that there is code that depends on incorrect code.
3.

TTD Advantages:

- Improves code quality
- Ensures that the program conforms to the requirements
- Finds problems in the code early, which leads to faster progress
- Programmers can be more confident in their code

TTD Disadvantages:

- Does not test internal workings of a method, such as what algorithm to use
- Does not allow to work ahead. For example, only a part of an algorithm can be implemented when it would cost less time to implement the whole algorithm it up front.