

TDD EXERCISE

Overview: You will receive a file with the code. Use TDD practices to write tests and complete the code.

Build Specs:

- Follow the instructions in the README file to set up the project.
- Write tests to ensure ChangeHandler is working correctly. Descriptions of the test cases you should write are provided below. You must follow the TDD technique: red, green, refactor!
- The ChangeHandler class allows users to insert coins into a vending machine and calculates the correct coins to give in change. Complete this class as you work through the tests.
- Note that all amounts are counted in cents, not dollars.

Required Test Cases

1. **constructor:**
 - a. amountDue is set based on an argument.
 - b. cashTendered is set to zero.
2. **insertCoin:**
 - a. Inserting a quarter adds 25.
 - b. Inserting a dime adds 10.
 - c. Inserting a nickel adds 5.
 - d. Inserting a penny adds 1.
 - e. Calling function multiple times continues to add on to the amount.
3. **isPaymentSufficient:**
 - a. Returns true if cashTendered more than amountDue.
 - b. Returns false if cashTendered less than amountDue.
 - c. Returns true if cashTendered equal to amountDue.
4. **giveChange:**
 - a. 32 change produces: quarters: 1, dimes: 0, nickels: 1, pennies: 2.
 - b. 10 change produces: quarters: 0, dimes: 1, nickels: 0, pennies: 0.
 - c. 27 change produces: quarters: 1, dimes: 0, nickels: 0, pennies: 2.
 - d. 68 change produces: quarters: 2, dimes: 1, nickels: 1, pennies: 3.

