Revisions:

Phase I - 3/40

team formation: a group can have 3 or 4 group members — Jett, Mya, Carlie, Seleste

coding assignment selection — Cash Register

completed C++ implementation of selected coding assignment with algorithm design and comments (35 points)

Algorithm Design (10 points) — The algorithm design document/details are not provided. -10

Included the Algorithm design, which thoroughly outlines the InventoryItem and Register classes. It also describes the design of the main function

Code Compilation (25 points) — No.

A header file should only contain one class definition. Although outside the problem description scope, add to your program the ability to repetitively run the cash register. See error below:

There are now separate header files for each class. We added the ability to repetitively run the cash register for new purchases and orders. Each time a new purchase or order is added, the quantity of that item is updated in the inventory.

LAPCIS-BM:346-CashRegister brandeismarshall$ g++ CashRegister.cpp

In file included from CashRegister.cpp:1:

./CashRegister.h:4:10: fatal error: 'Inventory.cpp' file not found

#include "Inventory.cpp"

^

1 error generated.

LAPCIS-BM:346-CashRegister brandeismarshall$

All files are now included in the compressed file.

Code Comments — Every line of code has not be commented. Where is the Inventory class implementations? The use of friend class is not asked or required for this problem.

Every line of code is commented and the InventoryItem class and implementations is included. We removed the use of the friend class.

Code execution — N/A

The code now compiles.

We made significant changes to our project after restructuring it to fit the new class, InventoryItem. Our register class now has 5 member variables, one of which is an array of objects of the InventoryItem class, and 4 member functions. The register class uses the InventoryItem’s constructor to create an object for each item in the store’s inventory. The Register class prompts the user to input the items and the quantity of each item they would like to purchase. That information is used to calculate the subtotal, tax, and purchase total. The information about the purchase is then displayed and the user is given the option to create a new purchase.