Assignment 5

Due Nov 29, 2021 by 11:59pm **Points** 10 **Submitting** a file upload **File Types** zip, cpp, and h
Available Nov 15, 2021 at 11:59am - Dec 13, 2021 at 11:59pm

This assignment was locked Dec 13, 2021 at 11:59pm.

For assignment 5, we will create a program to simulate buying and selling stocks on a stock market.
In particular, this program will manage multiple users, who can each buy/sell various stocks.

Note: The focus of this assignment is on using the Standard Template Library containers and algorithms we covered in the past couple weeks.
In the assignment specification, we'll mention different containers and algorithms to use for different features.
However, you can treat these as recommendations.
So long as the program behaves correctly, and the Stockholder class functions are correct, you are free to choose where to use STL containers, where to write your own code from scratch, etc.
That said, this program has more complicated behavior than previous assignments, so effective use of STL containers/algorithms will be important to completing the program with minimal hassle.
The one exception to this rule is the `NetWorth()` function for Stockholder, which *must* use the PortfolioValue functor and `for_each` algorithm.

assignment_5.pdf ↓

Stock.h ↓

stocks.txt ↓

Submit a zip file, which contains two .cpp files called main.cpp and Stockholder.cpp, as well as header files Stockholder.h and Stock.h.

Your zip file should be named *NetID*_asg5.zip, where *NetID* is your Net ID (the username you use on Canvas, *not* the 10-digit number on your wiscard).

In each cpp and header file, other than Stock.h, you should include a comment at the top of the file with your name and NetID.