

CSCD 240

Lab 16

SPECIFICATIONS

- I have provided an **unchangeable** cscd240Lab16.c file.
- In Lab 15 we wrote the stock structure, the fillArray function, the menu function, and the printArray function. You will need those for this lab.
 - Take your fileUtils.h and fileUtils.c and place them in the utils folder
 - Copy lab15.c and rename it lab16.c
 - Change your #include from “lab15.h” to “lab16.h”
 - Delete the symbolsSort, namesSort and pricesSort headers.
 - Add the function code for compareSymbols, compareNames, and comparePrices
 - Each will return an int
 - Each will take two parameters const void * one, const void * two
 - Think of each one of these as a Comparator compare method from Java

We are reusing a good portion of our code from lab 15. It is all about function pointers and the built in qsort function. man qsort for more information. Output is still the same

TO TURN IN

Submit a zip file

- Containing your C files and H file(s)
- The Makefile
- Your input file(s)
- Include an output captures from running your program named cscd240lab17output.txt.

Your zip will be named your last name first letter of your first name lab16.zip (Example: steinerslab16.zip)

SAMPLE RUN

Please choose from the following

- 1) Sort by Symbol
- 2) Sort by Company Name
- 3) Sort by Price
- 4) Quit

Choice --> 1

Google - GOOG - 721.110000
Hillenbrand Inc - H - 30.650000
Microsoft - MSFT - 53.240000
Charles Schwab - SCHW - 31.370000

Please choose from the following

- 1) Sort by Symbol
- 2) Sort by Company Name
- 3) Sort by Price
- 4) Quit

Choice --> 2

Charles Schwab - SCHW - 31.370000
Google - GOOG - 721.110000
Hillenbrand Inc - H - 30.650000
Microsoft - MSFT - 53.240000

Please choose from the following

- 1) Sort by Symbol
- 2) Sort by Company Name
- 3) Sort by Price
- 4) Quit

Choice --> 3

Hillenbrand Inc - H - 30.650000
Charles Schwab - SCHW - 31.370000
Microsoft - MSFT - 53.240000
Google - GOOG - 721.110000

Please choose from the following

- 1) Sort by Symbol
- 2) Sort by Company Name
- 3) Sort by Price
- 4) Quit

Choice --> 4

all done