CSCD 240
Lab 2

SPECIFICATIONS

- I have provided an **unchangeable** cscd240Lab2.c file.
- This lab is similar to Lab1. I have provided a fileUtil.c and fileUtil.h – You only need to write the methods for Lab2. You can write the others if you want we will eventually need them anyway.
- I have provided lab2.h. You need to write lab2.c
    - int fillArray(struct Stock array[], FILE * fin);
    - int menu();
    - void printArray(struct Stock array[], int total);
    -
    - int compareSymbols(const void * one, const void * two);
    - int compareNames(const void * one, const void * two);
    - int comparePrices(const void * one, const void * two);
        - Think of each one of these as a Comparator compare method from Java

This lab is another example of dynamic allocation, function pointers and the built in qsort function.

man qsort for more information.

TO TURN IN

Submit a zip file

- Containing your C files and H file(s)
- Your Makefile
- Your input file(s)
- Valgrind run named cscd340lab2Val.txt

Your zip will be named your last name first letter of your first name lab2.zip (Example: steinerslab2.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 - HI - 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 - HI - 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 - HI - 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
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