CS120 - Computer Science I
Lab #10
Spring 2014

The purpose of this exercise is to reinforce what you know about the use of files, structs (or classes) and arrays in C++.

Your (wealthy) neighbor has asked you to help him keep track of his stock portfolio, which at any one time contains up to 100 stocks. He has created a file named `stocks` containing the following information on the stocks that he owns:

Stock Name	Sector	Current Share Price	No. of Shares Owned

The sector is a single character which specifies the type of company, according to the following code:

A - Auto Companies
C - Consumer Products
F - Financial/Insurance
I - Industrial
T - Technology

You are to write a C++ program which inputs this stock information from the file, prints the name and other information about each stock, organized by sector, and computes the value of each sector. At the end of the output, the program should print the total value of the portfolio. The output should look similar to the sample below:

```
                 Jim's Stock Portfolio
     Auto Sector
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     Stock Name    Number of     Current Share    Total Stock
                  Shares Owned       Value            Value

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     FordM            87            18.76            1632.12
     GnMtr            90            51.40            4626.00
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                    Total for auto sector:         $ 6258.12

     Consumer Products Sector
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     Stock Name    Number of     Current Share    Total Stock
                  Shares Owned       Value            Value

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     Albertsn        542            34.39           18639.38
         .            .              .                 .
         .            .              .                 .
                                                    --------
          Total for consumer products sector:      $ 6258.12


         .            .              .                 .
         .            .              .                 .
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               Total Portfolio Value  $ xxxxxx.xx
```