Lab 6

In this lab, we will practice using various C++ functions to read different types of data from a data file.

The functions we have discussed include:

get : read a single character from the input stream, does not skip white spaces
getline : read an entire line of characters from the input stream, consumes the end of line character
extractor operator >> : read til the next white space character
ignore : skips over characters

First, take a look at the content of the data file. The data file is of this format:

The Finkler Question ← title of a book, also the beginning of the first book record Howard
Jacobson   ← author of the book
3 stars   ← reader star rating
10 12 2010   ← publication date of the book
15.00 new   ← price of the book
Come, thou Tortoise   ← beginning of the second book
Jessica Grant
4.8 stars
3 9 2012
22.0 mint   ← end of the second book

...

Your program will read ONLY the following information of each book from this data file:

> *book title*
> *book author*
> *star rating, do not include the string "stars"*
> *publication year, do not include month and day*
> *price, do not include the comments, such as "used", "mint", "new", etc.*

As soon as the program reads the appropriate information for one book, display it on the screen. Then move on to read the information of the next book. The information of all the books are displayed in the table form. Do not store the information in any kind of data structure for this lab.

Your program will also keep count of the total number of books read.

Here is an example output of the program:

```
TITLE                     AUTHOR                  RATING   PRICE YEAR

The Finkler Question      Howard Jacobson         3.00   15.00 2010
Come, thou Tortoise       Jessica Grant           4.80   22.00 2012
Catching Fire             Suzanne Collins         5.00   9.98  2013
Mokingjay                 Suzanne Collins         4.60   9.95  2014
Winnie's War              Jackson Moss            3.80   10.50 2013
Deenie                    Judy Blume              3.80   0.95  1994
Only One Year             Andrea Cheng            4.90   3.56  1969
Can Adults Become Human?  Jim Benton              4.20   5.35  2006

There are a total of 8 books.
```