

WA7

WEEKLY ASSIGNMENT 7
BME 121, FALL 2016

Due Wed Nov 16 at 4:30 pm

ASSIGNMENT

The purpose of this assignment is to get used to the “MediCal” classes called “DrugUsage” and “Drug” which are provided in the file “MediCal.cs”. A working program is provided in the file “wa7-start.cs”. This program uses the constructor of the “DrugUsage” class to read the file “RXQT1503-100.txt” and form a list of “Drug” objects held in the “lastYear” object. The program then uses a “foreach” loop to access each “Drug” object and display it on the console. The commented-out form of the “DrugUsage” constructor call will load the four latest quarterly data files (the last year of available data) instead of the small 100-drug test file. To run the program, you will need to download the data files from the week-10 lecture area on OneDrive.

Change the program to do the following. Write a loop to count the number of “Drug” objects for which the drug name contains the string “VITAMIN”. Allocate an array of “Drug” objects of that size. Write a loop to fill the array with those “Drug” objects for which the drug name contains the string “VITAMIN”. Write a loop to display each “Drug” object in the array on the console. With the small test file, you should see four lines as follows.

```
00182007901: VITAMIN E 200 UNIT CAPSULE, 100
11917007521: VITAMIN C 500 MG TABLET, 100
11917007928: VITAMIN B-12 100 MCG TABLET, 100
57896050401: ONE DAILY MULTIVITAMIN TAB, 100
```

You should also test this on the set of four quarterly files. There will be on the order of five hundred output lines in this case.

SUBMISSION

Name your C# program file as wa7.cs. Use Bme121.Wa7 as your namespace identifier. Include the standard doc-comment block. Submit wa7.cs at the following url.

<https://georgefreeman.ca/fileuploader>