ProjecSt 1: Road to Sochi

Due date: 9/22/2014 (Day #6 of Winter Olympic)

*“Blood, sweat, tears, happiness, bliss, determination, elegance, grace, hard work, passion and inspiration in a sport that is more a way of life than a sport” – Welcome to Figure Skating, everyone.*

1. ***Program description:***

In this project, we are given a file namely fsdata.txt which contains the results of senior men event at the most recent US National Championship in Boston (2014). The file format is follows:

Skater’s name: column 1 to column 17

Skater’s club: column 18 to column 33

Short program points: column 34 to column 38

Long program points:column 39 to column 44

Program components: column 45 to column 49

Executed element: column 50 to the end of the line.

The total points would be the sum of short program points and long program points. The program component represents the “artistic” points for each skater while the executed element represents the “athleticism” for each skater. You are asked to write a program to read the data from the file fsdata.txt and print the report in which the list of skaters is sorted in descending order of the total points. That mean the skater with the highest points would be printed first and the one with lowest points would be printed last. At the end of the report, please print out the name of the skater who wins the short program (e.g. has highest short program points), the skater who wins the long program (e.g. has highest long program points), and the names of all skaters who make the podium (e.g. the four skaters with highest total points), the name of the skater with highest “artistic” points and the skater with highest “athleticism” points. US team this year will send only the first two skaters with highest total points to 2014 Olympic. Please print the names of two skaters who make the team.

Report format

<skater name> <skater club> <short program points><long program points> <total pointartiss>

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Winner of short program:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Winner of long program:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Winner of competition:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Skater with highest artistic points:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Skater with highest athleticism points:\_\_\_\_\_\_\_\_\_\_\_\_\_

And the 2014 US Olympic Men Skating team is:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Your program should at least contains 4 classes: one class takes care of reading from a file (you can use my FileInput.java posted on D2L or feel free to write your own), one class takes care of the structure of skater’s profile, one class takes care of all the report and the main class which contains just the calls to other classes.

1. ***Submission:***

All \*.java files need to be submitted in D2L Project 1 dropbox by midnight of the due date.