

Individual Assignment (15%) (Deadline: Jan 11 at 11:59pm)

You are asked to write a Java program to maintain student records in a subject. The program reads all students data (i.e., IDs, names, assignment and examination marks) in a text file, and print out a table containing some simple statistics (i.e., average and ranking)

Input File

A general format of input text file depicts below:

Student ID, Student name, marks for assignment 1, percentage of assignment 1, marks for assignment 2, percentage of assignment 2, ...

Example,

```
[Student ID], [Student Name], Asg 1, 10, Asg 2, 10, Midterm, 40, Final, 40
01234567, Titure Choi, 99.5, 97, 100.0, 99.0
02345678, Elaine Tam, 89.5, 88.5, 99.0, 100
```

The first row denotes the names of all assessments. Then, each student record presents in a line. All fields are separated by a comma. You may assume that there is no comma in between surname and first name. The length of student id is fixed at 8 characters long, whilst the length of student name is fixed at 20 characters long.

Output Screen

Here is a sample output from the input file shown above.

ID	Name	Asg 1	Asg 2	Midterm	Final	Overall	Rank
01234567	Titure Choi	99.50	97.00	100.00	99.00	99.30	1
02345678	Elaine Tam	89.50	88.50	99.00	100.00	97.40	2
Average:		94.50	92.75	99.50	99.50	98.30	

You may use `System.out.printf()` statement to produce the formatted output. In addition to output student records, your program should calculate the rank and averages for each individual assessment. ***Please be reminded that all numbers are displayed with 2 decimal places, except for ranking.***

Submission

1. Zip your programming files (java source code and class file), and name the zip file as your student's ID, for example 07123456.zip.
2. Upload your submission on Canvas.
3. Late submission is not allowed.
4. Plagiarism (Copying) is a serious concern. Students might search for information on the Internet and "Copy & Paste" it directly in their assignments. Hence, a strict rule is applied that **MORE THAN SEVEN WORDS** copied from a source is considered as a cheating. The minimum penalty is zero marks for the particular assignment.