

## CSCI 161 Exam #2 Online Problem - **EXAMPLE**

This portion of the exam is open book and notes (your own only, of course). You may not consult anyone other than the instructor during this portion of the exam. You MAY use any code that you have previously developed in order to complete this question.

**Description:** Develop a Java program that reads lines from a text file and computes grade averages along with high and low grades for each student. Your program will read from a known text file as described in the “Input Specification” below.

**Input Specification:** Your program should read from the *grades.txt* file in the current working directory. Each line of the file contains a student email address, student last name, student first name, then a variable number list of student grades (integers) as in the following lines (feel free to cut and paste these lines for your file):

```
jfawcet@millersville.edu Fawcett John 85 78 95 93 78 89 83
bkeller@millersville.edu Keller Barbara 82 79 85 92 67 87 94 77
sjohns@millersville.edu Johnson Stan 89 84 83 88 76 85 92 76
rstrand@millersville.edu Strand Rebecca 83 81 84 91 73 88 94
lthomas@millersville.edu Thomas Logan 73 85 92 91 74 88
```

**Output Specification:** Your program should output the low, high and average grades for each student according to the following format (note that the precision of each grade average is two decimal places).

```
John Fawcett (jfawcet@millersville.edu): low of 78, high of 95, average of 85.86
Barbara Keller (bkeller@millersville.edu): low of 67, high of 94, average of 82.88
Stan Johnson (sjohns@millersville.edu): low of 76, high of 92, average of 84.13
Rebecca Strand (rstrand@millersville.edu): low of 73, high of 94, average of 84.86
Logan Thomas (lthomas@millersville.edu): low of 73, high of 92, average of 83.83
```

I strongly suggest building in small increments so that you always have something that compiles. A program that is nearly complete and cleanly compiles will receive more points than a complete program that does not compile! Remember that you may submit early versions of the program as many times as you like!!