Homework 7: Spreadsheets                                      Due Wed. 11/24/10, 3:00pm

Note that the due date is the Wednesday before the Thanksgiving holiday. The late turn-in date for this assignment is Friday, Nov. 26th by 3:00pm.

This assignment is an INDIVIDUAL assignment. You are expected to abide by the policies outlines on the course syllabus, the Math/CS Dept's SPCA, and the Emory Honor code (all of which are available from the course website) in completing this assignment. When you submit your assignment, you should include your collaboration statement in the submission box on Blackboard. Failure to do so will result in a grade of 0 for this assignment.

You are to compute the final grades for a class. A sample workbook with sample data can be found on the class website's homework page.

Calculation Instructions:
1. The workbook you are given contains 3 sheets: assignments, attendance, and ranges. You will be adding another worksheet titled final grades which will have 3 columns:
   a) Student name
   b) Numeric grade (calculated as detailed below)
   c) Letter grade (based on the values in the ranges sheet)
2. The final grade will be weighted on an assignment-by-assignment basis.
3. The lowest exam grade is dropped, and the other exams are weighted equally.
4. Points are given for attendance. The student either earns the points or not; there are no partial points. A value of "u" in a cell indicates an unexcused absence, an "e" value indicates an excused absence, and an empty cell or other values indicate attendance. Only unexcused absences count against the student.
5. The final numeric grade needs to be converted to a letter grade.
6. The following values will be read from the spreadsheets:
   a) total possible number of points per assignment and exam
   b) the weights of each assignment/exam
   c) the translation of numeric grades to letter grades. The translation is on the worksheet entitled ranges. You should not code any of these values into your formulas.
7. Create two named values (not referring to cells/ranges) :
   a) the number of allowed unexcused absences without penalty. Call this value absences and set its value to 4.
   b) the points for attendance. Call this value attendance and set its value to 5.
8. Any non-numeric data entered for assignments or exams should be considered an error. You may treat these values any way you like in the calculation of a numerical grade. However, the final letter grade should read "INPUT ERROR" and be formatted with a red background.

Logistics:
1. The names of the worksheets will not change.
2. You may assume that the location of data does not change.
3. You may assume that the number of students, assignments and class days (for attendance) will remain the same.
4. You may assume that the students will appear in the same order on both the assignments and
*attendance* worksheets.

5. You can create columns/rows/cells to hold intermediate results. However, you should not displace other data to do so. This will result in incorrect computations and a lower grade.

6. You will be given sample data to work with but your final grade will be based on different test data. The sample data can be found on the class website in the file sample.xlsx.

7. Submit your final spreadsheet as lastname.xlsx and include your collaboration statement on Blackboard.