FALL 2004: **CGS 2423** C For Engineers
[Programming Assignments 7;
Due December 8 in class.]

Problem Description

You are given four data files on students in a class. These files are called `Id.dat`, `Names.dat`, `GPA.dat`, and `Age.dat`. The first line in each of the four files corresponds to the first student. The second line in each of the four files corresponds to the second student. And so on. You are not told how may students there are in the class. Your program must read the information from the four files on all the students, and print this out in 4 columns (like a roster). Your program must use 4 arrays to store the data. Your program must clean up the names by replacing underscore characters by spaces (as described below).

Details

Id is a 4-digit number. Since it could start with the digit 0, it is better to treat it as a string, and not as an integer. Name is at most 25 characters long and is terminated by the end of line character. To make it easier for you to read, all spaces in the names have been replaced by the underscore character ('_'). However, when you print out the names, all underscore characters must be replaced by spaces. For this you need to write a small function that takes an array of characters and replaces all underscore characters in this array by space characters. GPA is a real number between 0 and 4.0. Age is an integer. Your output must be neatly formatted and arranged in 4 columns with appropriate column headings.

What to Submit

Submit a print out (hard copy) of your program and the output. As before, upload a "soft" copy of your program to the submission website at `ftp.cs.fiu.edu/pub/giri/incoming/cgs2423/jkerry001/` by logging in as `anonymous`. As before, if you are using Linux, then submit the `.c` file, and the `a.out` file. If you are running Windows and Visual C, then submit the source code, project file, the workspace file, the `.exe` file, and anything else that might be needed. Zip up all the files you want to submit into one zip file. Name the zippped file appropriately by using your login name and the assignment number (for example, `jkerry001_Homework7.zip`). Make sure you put the zip file in the correct directory.

Suggestions for the bored

Extra Credit Print the output in alphabetical order.