

SRPING 2006: **CGS 2423 C FOR ENGINEERS**
[PROGRAMMING ASSIGNMENT 7;
DUE APRIL 19 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 many 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). Finally, your program must use the end-of-file test.

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 To make it easier for you to read, all spaces in the names have been replaced by the underscore character ('_').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 of your program and the output.

Suggestions for the bored

Extra Credit Print the output in alphabetical order. Check for errors of various kinds, such as an unequal number of entries in the four input files.