Name:

Do your work in this directory:

**/data/courses/ece\_1111/current/quizzes/qu\_09/lastname\_firstname/p01**

Follow our usual procedure of creating a make file, a driver file named *p01.cc*, a header file named *p01.h*, and an implementation file *p01\_00.cc*.

**Task:** Write a C program that includes three functions. The first function, named, *myread*, reads this file:

**/data/courses/ece\_1111/current/quizzes/qu\_09/picone\_joseph/example.dat**

into a structure, named “*Animals*”, that contains a float variable named “*cat*”, a long integer variable named “*dog*”, and a character string named “*horse*”.

Then write a function that accepts your struct as an argument and prints the values of the internal data. To complete your code, write a function that frees nay memory that was allocated memory in your struct in your driver program.

The interfaces to these functions should be:

**bool myread(char\* fname, Animals& animals);**

**bool myprint(FILE\* fp, Animals& animals);**

**bool myfree(Animals& animals);**

I need to be able to run your program as follows:

**p01.exe <filename>**

It should print out the values of the elements of the struct Animals to *stdout*. Your program must take the filename as an argument. You can use g++ as your compiler and linker, but do not use classes for this quiz. Stick to structs.

**NOTE THAT FILES THAT ARE INCORRECTLY NAMED WILL RESULT IN A GRADE OF 0.** My testing script looks specifically for *p01.exe*.