Name:

Do your work in this directory:

/data/courses/ece\_1111/current/quizzes/qu\_08/lastname\_firstname/p01

Follow our usual procedure of creating a make file, source code file named p01.cc and a header file names p01.h.

**Task:** Write a C program that reads this file:

/data/courses/ece\_1111/current/quizzes/qu\_08/picone\_joseph/example.dat

and prints out the ‘correct’ values. This file contains 11 bytes. One of them is a double precision float. The other bytes can contain any combination of floats, shorts, characters, etc.

Write a program that reads the file byte by byte, or in groups of bytes, and prints out the corresponding values. If you properly decode the file, the values you see will have lots of the number ‘27’. If you read it incorrectly, the numbers will appear as junk.

When I run your program, it should print out the name of the data type and the values you found one by one. For example:

p01.exe /data/courses/ece\_1111/current/quizzes/qu\_08/picone\_joseph/example.dat

float = 32.9999

char = 99

int = 3555

...

Your program must take the filename as an argument.

Hint: Use the Unix command od to figure out what is in the file.