

Northern Michigan University (Marquette Co, MI)

CS 426-01-26W: Network Programming

Program 1

Due: Wednesday 9 September 2026 3:00 P.M. EDT

Create a directory called “PG1” in the root of your CS426-01-26W folder. When you are ready for your program to be graded, put a (possibly empty) file in the root of your PG1 folder called “DONE”.

You are to write, in C, in a Linux environment, a program that does the following.

It asks the user for two program names. (It may assume that both programs exist, it doesn't have to check for this.)

It will then ask the user to enter text input for the first program line by line. (A blank line will indicate the end of the input.) This input will be saved in a file. What you name the file is not important, but don't give it a stupid name, like, for example, you don't want it to overwrite the programs you're running!

Your program should then execute the first program using the file thus created as its input file. The output from the first program will then be passed as input to the second program DIRECTLY with a pipe, without saving it into a file.

The output from the second program will then be saved into a file. Again, don't really care what the filename is, but it can't be stupid.

Your program will then print out the output file from the second program.

You are not to use high-level C I/O functions to do this. All file and process accesses should be handled by operating system commands. Reading, writing, forking, executing, piping, all of it!

Your program should be broken up into appropriate methods and commented adequately. And it should be in C. Not C++. I will not be compiling this in C++!