

Northern Michigan University (Marquette Co, MI)

CS 426-01-26F: Operating Systems

Program 2

Due: Wednesday 23 September 2026 3:00 P.M. EDT

Create a directory called “PG2” in the root of your CS426-01-26F 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 prints the names of all files in that directory and in ALL subdirectories. It should NOT follow links, and directories should be indicated in the listing. The files should be in alphabetical order, and a directory should be processed in full before processing any of the subdirectories.

You should write your program in C, using low level system calls only.

Example:

File listing...

A (directory)
B (directory)
a.txt
b.txt
c.txt

A

c.txt
d (directory)
e.txt

A/d

stuff.txt

B

morestuff.txt