

Programming 2  
Cptr.212

Fall 2020 | Southwestern College  
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## Assignment #6 "Command Line Tool"

Create a command line tool, in the style of Unix/Linux.

The programs we have been writing so far all operate from the command line. This nominally (in name only) makes them command line programs. However, real command line tools strive to solve a problem that other programmers have in their daily lives. That might mean writing to a file based on an argument that a user passes in; searching to see whether a file exists; printing out information from a text file; or returning a mathematical value. All such examples assume the presence of the POSIX shell layer (including standard C libraries and tools).

For this assignment, examine standard Unix/Linux commands. Some of these include ls, cd, echo, cat, less, man, vi or vim, grep, sed, awk, tee; there are many, many more. To get info on a command, type "man" (for "manual") then the command name into the terminal (e.g. "man ls" or "man man"). **Here's one list of famous Linux commands**, some more complex than others. These are mostly written in C, so also take a look at **the source code for these commands**, knowing that — as "industrial strength" utilities — the source code will be very involved.