

## cpSC 351-Project --- Unix Shell --- due 24 Feb 2022 at 2359

Your name(s) up to 2 members: \_Nhan Thanh Mac

Github repository : <https://github.com/macnhan79/CPSC-351-Project-1>

Verify each of the following items and check the correct column. Incorrectly marked items will incur a 5% penalty.

Completed	Not Completed	Unix Shell
Yes		Complete a Unix shell (osh) program that runs on Unix (e.g. Linux, macOS, WSL).
Yes		Program is written in the C language, using fork() and exec() and wait()
Yes		Shell program uses dup2() and pipe()
Yes		Program creates a Unix shell with the parent process forking a child process
Yes		Shell can run concurrently, e.g., <b>osh</b> > cat program.c &
Yes		Shell can run in the background, e.g., <b>osh</b> > ls
Yes		Shell terminates when exit() is typed, e.g., <b>osh</b> > exit()
Yes		Shell allows multiple arguments to be passed through the command line
Yes		Has a history feature that remembers the shell commands typed, e.g., <b>osh</b> > !! will execute the last command
Yes		Allows redirection of input using the dup2() function, and the < and > symbols <b>osh</b> > < input_file, or output, <b>osh</b> > > output_file, or both <b>osh</b> > < input_file > output_file
Yes		Allows the parent and child process to communicate with a pipe (sends the output of ls to the less program) <b>osh</b> > ls -l   less
Comments	Screenshot	





