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CSCE 313

PA2

Parse there are two function for handling parsing, one is parseCommand which takes line as a input and it first trim and take off the ‘\n’ and check it should work at background or foreground and loop all the command line checking if it’s pipe or end of string . If there is pipe or it is end of string it tokenizes each command using strtok in the parseCommandChunk and get which command it is and it’s arguments.

Redirection.

Before creating redirection, it checks if the process has any input\_direction or out\_putdirection for redirection and its indicated file is valid. If It’s is valid, then it calls launchProcess which check childpid using fork and if the value is 0 then it duplicate it with dup2()function.

Piping

For the piping it is needed to be parse and extract the individual commands that are being piped and store them in a separate array, but for me since process object have to next process, I put the piped process in the next variable using pipe functions.