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CPRE 308 Section A
Project 1

In this project we worked on creating a shell. To do so you needed to intake the shell command along with the -p parameter if they wanted to designate a user name. After the shell started it needed to take commands and attempt to run them. It also had a list of build in commands. The easiest way to run the non-built in commands was to use the execvp function which searches file path for you. This needs to have the first argument be the command and the second being the commands string ending in a null character. To accomplish this I used a function to split a string. This function also allowed me to check for the & symbol at the end of the string if it was suppose to be a background process.

To run a background process I had a if statement to check if it was suppose to run in the background or not. It was not suppose to run in the background I called a wait function. If it was suppose to run in the background I did not call wait. Checking for if a process has terminated is where I ran into some problems. To try to resolve this I put a check into a function and ran it periodically. This seems to have worked fairly well as commands can still be run and the function will say when a process has been killed or exited.