

Hannah Shaw

CS536

Park

LAB1

1. The reason that the original version of the file did not correctly execute 'ls -l -a' is due to the way the function `execlp` handles the number of arguments. This function requires the number of arguments to be set by compile time, which is why it can execute 'ls' correctly when there are no arguments, but it does not know what to do with 'ls -l -a'. Changing the function to be `execvp` allows there to be a dynamic number of arguments, allowing for more complicated shell commands to be usable in our program.

2. code in v2

3. Using `clone()` in problem 1 could have been by simply adding `execvp()` as the provided function `fn`. This would not have made a massive difference in the execution, but it could have made the code a bit cleaner, and without all the error checking and such as.