This one is a bear.

The function that actually executes commands is execvp. And while it would be really nice to feed a function a whole string of input we cant use system.

The first case we have is a single command. This is pretty easy and you just separate out everything and then feed it to execvp. This is done in “executeStuff”.

For the next part, I used structures to keep the different commands organized. I then take the parsed list and turn that into the structures which I then feed to complicated execute. And then from that you use fork to branch off different processes that will do the execution while also handling the input/output direction using dup2.

To use the shell, compile the myshell.c and run the result.

The shell itself needs to have each “token” separated by a space.

To execute the project you need two lines:

gcc myshell.c -o myshell

./myshell