

Report on Shell Implementation

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Introduction

In this project, I implemented a shell named myshell, in which certain commands are modified.

Implementation Approach

I wrote a single main.c code which has functions for each task which are parsing input, parsing aliases, writing aliases into a txt file and executing commands. After myshell started, firstly, it reads old alias records from file and store them. Then the code executes commands until an exit command occurs.

Challenges Faced

In bello function, printing last executed command and counting background processes being executed were challenging. "backward redirection" is also hard to implement.

Solutions and Workarounds

I copied every correctly executed commands into a global array to print last executed and I counted while killing and creating background processes. I also used pipe communication to perform "backward redirection" command.