

# CprE 308

## Project 1

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This lab focused on the creation of a simple shell, employing forking practices we learned earlier, along with a large amount of string manipulation. I personally haven't used forking very often in my own projects, so the implementation of background processes without leaving a mess behind was a new challenge.

This was done by launching an observer by forking main, then launching the worker by forking the observer. In this way the observer could wait for a response while main continued unhindered.

While I left the extra credit options mostly unimplemented, the ideas behind them are easy to grasp.

The jobs command would be implemented using a linked list of all active child processes, adding and removing at appropriate times.

The output dump option would use a pipe and typical file creation functions.