bc_shell Report

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Purpose

The dc_shell program implements a simple Unix shell program. The shell can execute simple commands with I/O redirection and will expand \sim to the user's home directory. Only the cd and exit built-in commands are supported.

Requirements

Task	Status
Read commands	Fully implemented
Execute commands	Fully implemented
Redirect stdin	Fully implemented
Redirect stdout with concatenation or appending	Fully implemented
Redirect stderr with concatenation or appending	Fully implemented
Expand ~ to the users home directory	Fully implemented
(bonus) which building command	Not implemented
(bonus) command history with up and down arrows	Not implemented

Platforms

dc_shell has been tested on:

- macOS Monterey Version 12.5
- Fedora 34

Language

- ISO C17
- Compiles with gcc and clang

Documents

- Design
- Testing
- User Guide