Minishell Bonus Features Checklist

This checklist helps track implementation of bonus features for the Minishell project,

such as command grouping, logic operators, and proper file descriptor behavior across pipelines.

[ ]   Support for command grouping with parentheses: ( )

   [ ] Parse nested token structures within parentheses

   [ ] Recursively build AST from grouped sublists

   [ ] Execute grouped commands in isolated subshell

[ ]   Handle logical AND (&&) and OR (||) operators

   [ ] Respect short-circuit logic during execution

   [ ] Ensure correct operator precedence

[ ]   Ensure multiple redirections per command are handled properly

   [ ] Handle cases like: cmd < infile1 < infile2 > out

[ ]   Ensure correct file descriptor closing between commands

   [ ] Prevent file descriptor leaks in pipelines and subshells

[ ]   Support chained commands using pipes combined with logic

   [ ] e.g., cmd1 | cmd2 && cmd3 || cmd4

[ ]   Implement return value handling across pipelines and logic blocks

[ ]   Handle nested groupings and multiple operator types

   [ ] e.g., (cmd1 && cmd2) || (cmd3 | cmd4)

[ ]   Test bonus features with complex edge cases and mixed syntax

Use this checklist to plan and validate bonus feature implementations.