

Name: Merrick Heley XXXXXXXXXX 100/100

Some comments will refer to the key on the next page – see the key for explanations

Makefile works, program which addresses the specifications compiles [10/10]

Coding style, readability, organization [10/10]

Foreground Execution [10/10]

Background Execution [10/10]

Built-in Command exit [10/10]

Built-in Command cd [10/10]

[F1]

Input redirection [10/10]

Output redirection [10/10]

Pipes [10/10]

Man page [10 /10]

KEY TO COMMENTS/ERRORS?BUGS etc.

Makefile works, program which addresses the specifications compiles

[A1] Some files have odd permissions, eg execute permission for source files

[A2] Extra files included – eg backups, testfiles, etc.

[A3] Don't put executable in tarball

Coding style, readability, organization

[B1] No File headers – it is normal to include a header on source files with author, date, filename, etc.

[B2] Poor use of constants – it is bad practice to have “magic numbers” like 20 or 128 in the code, they should be defined as constants

[B3] Insufficient comments to explain what is happening in your code

Foreground Execution

[C1] Reading of commands from an input file not implemented

[C2] Core dump for a line with just one space, or with blank line

[C3] truncates and executes truncated long line

[C4] flush prompts so they don't all appear at the end in shell script

[C5] No check for incorrect number of arguments

Background Execution

[D1] PID should be printed on bg process start and end

[D2] in bg, stdout data disappears – should go to screen unless redirected

[D3] Shell exits on a failed command or long line –it is more sensible to explain error and continue

[D4] Debug messages still printed during execution

[D5]

Built-in Command exit

[E1] Program fails when it reaches EOF (either infinite loop or core dump)

Built-in Command cd

[F1] Doesn't check for incorrect syntax (eg. 'cd test test2')

[F2] No error if directory is non-existent

[F3] Doesn't print cwd in prompt

[F4] Core dump on cd

[F5] cd by itself doesn't go to HOME

Input redirection

Output redirection

[H1] Output files created with strange permission sio they can't be rewritten

[H2] Output redirection appends to files rather than starting a new file.

Pipes

[J1] No check for incorrect syntax, eg 'ps | wc &' should either be executed correctly or syntax error detected. In some cases it runs incorrectly.

[J2] I/O redirection between piped processes doesn't work

[J3] doesn't work with o/p redirection

Man page

[K1] Explain the meaning of grammar symbols < > | &

[K2] Explain Built-in Commands

[K3] Too brief – insufficient detail

[K4] Limited operation (eg can't use | and &) are not BUGS

[K5] Don't put your name in a section called NAME

[K6] Don't put in sections with nothing in them or with NA or N/A etc