

COP4610 Fall 2015

Project 1 Test Cases

Input Redirection

- `more < ls.txt`
- `more < ls.txt shell.c`

Output Redirection

- `ls > ls.txt`
- `more ls.txt`
- `ls > ls.txt ../`
- `more ls.txt`
- `ls > ls1.txt`
- `more ls1.txt`
- `ls > ls2.txt`
- `more ls2.txt`

Piping

- `ls | more`
- `ls | more | grep 'c'`
- `ls -U -l | sort | more | grep 'c'`

Background Processes

- `nano &`
- `nano`
- `emacs &`
- `ls &`
- `more ls.txt &`

No Zombies

- `sleep 20 &`
- `exit`
- `ps -ef`

Executes Any External Command

- `ls`
- `ls -l`
- `ls -l -U`
- `ls -la`
- `ls bad.dir`

- more filename
- ps -ef

exit

- exit

echo

- echo fish
- echo text 100
- echo ls -l -a
- echo aaa
- echo 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
- echo \$HOME
- echo \$PWD
- echo \$HOME \$SHELL \$PWD

cd

- cd ../
- ls
- cd .
- ls
- cd
- ls
- cd
- ls
- cd /
- ls
- cd /usr/local/src
- ls

etime

- etime pwd
- etime sleep 5

limits

- limits ls
- limits cat hello_world.c

Detects Specified User Errors

- more <
- < file
- <
- ls >
- > file
- >
- |

- `ls |`
- `| more`
- `ls & | more &`
- `ls & | more`
- `ls > & file`
- `more < & file`
- `cd bad.dir`
- `echo $PW`
- `echo $HOME $SHELL $BAD`

Remember, this test case suite is not exhaustive. Think of additional test cases that may be required to be tested to ensure the project specification is met.