OPPE Revision & Tips

File Editor

- nano Use if you dont know vim or emacs
- vim
- emacs

File System and Navigation

- You are in ~ (/home/\$USER/)
- The questions are in '/opt/se2001'
- You do not go into, or do anything in '/opt/se2001'
- Basic navigation commands
- 'ls' list files
- 'cd' change directory
- 'pwd' print working directory

Basic FS Creation Commands

- 'touch' create a file
- 'mkdir' create a directory

Brace Expansion

- 'echo {1..10}'
- 'touch file{1..10}{a,b,c}.txt'

Folding and Unfolding

- 'fold' fold lines
- '-w1' fold at 1 character
- 'paste -s' unfold lines
- '-d' delimiter
- 'xargs -n \$num echo' unfold \$num lines

Examples of Folding and Unfolding

- fold.sh
- paste.sh
- xargs.sh
- series_sum.sh
- factorial.sh
- sod.sh
- dot.sh
- big_dot.sh
- better_dot.sh

Bash Scripting

- Read lines using 'read'
- Loop over lines using 'while read line'
- Split lines using 'IFS' before 'read'
- Skip header using 'tail -n +2'
- Switch case and 'if' statements

Examples of Bash Scripting

- header.sh
- elder.sh
- richer.sh
- richness.sh
- age_group.sh

Sed Scripting

- filtering using regex
- replacing regex with string
- uppercase and lowercase
- dropping lines and printing lines
- '-n' and '-f' flags
- '=' for line numbers
- 'N' to join lines

Examples of Sed Scripting

- header.sh
- color.sh
- replace.sh
- big_berry.sh
- no_price.sh
- skipping.sh

Awk Scripting

- Field Separator
- Print lines
- Number of Records and Number of Fields
- Print Fields
- Different Blocks

Examples of Awk Scripting

- total.sh
- stats.sh
- blocks.sh