

# Completed Week Report

## Discussion Board

History of Linux (Discussion Board 2)

## Notes and lab

- [Lab5](#)
- [Notes5](#)

## Practices

Practice The Linux filesystem

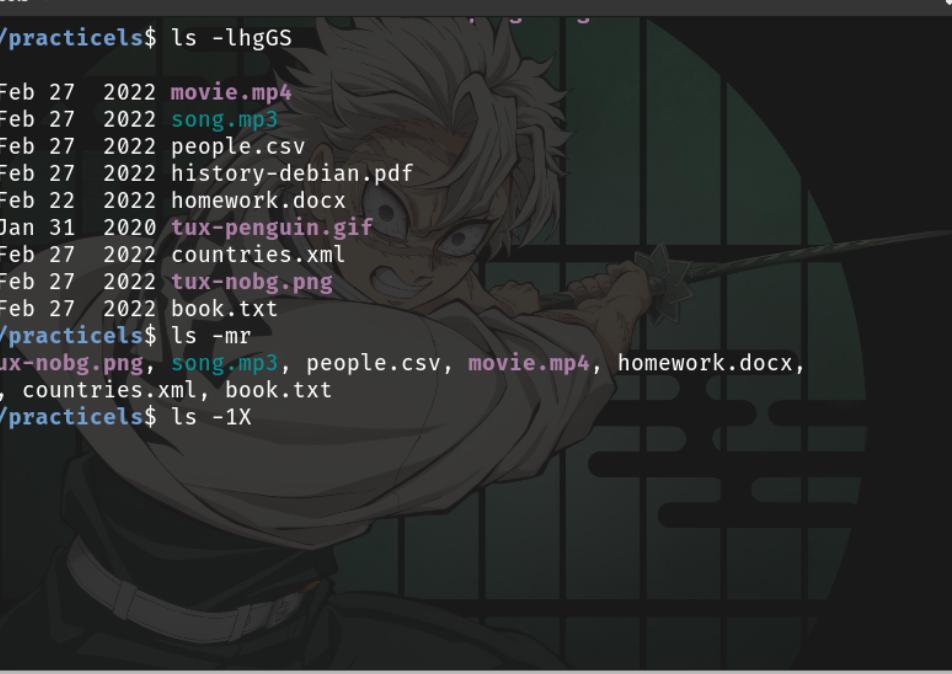
### Practice 1

```
1: roderick@RsLinux: /  
roderick@RsLinux:~$ pwd  
/home/roderick  
roderick@RsLinux:~$ cd Downloads/  
roderick@RsLinux:~/Downloads$ pwd  
/home/roderick/Downloads  
roderick@RsLinux:~/Downloads$ cd ..  
roderick@RsLinux:~$ pwd  
/home/roderick  
roderick@RsLinux:~$ cd ../../..  
roderick@RsLinux:/$ pwd  
/  
roderick@RsLinux:/$ cd  
roderick@RsLinux:~$ cd -  
/  
roderick@RsLinux:/$ pwd  
/  
roderick@RsLinux:/$ |
```

### Practice 2

```
1: roderick@RsLinux: ~/practicels
roderick@RsLinux:~/practicels$ ls
book.txt          homework.docx  song.mp3
countries.xml     movie.mp4      tux-nobg.png
history-debian.pdf people.csv   tux-penguin.gif
roderick@RsLinux:~/practicels$ ls -a
.                 history-debian.pdf  song.mp3
..                homework.docx    tux-nobg.png
book.txt          movie.mp4      tux-penguin.gif
countries.xml    people.csv
roderick@RsLinux:~/practicels$ ls -l
total 2932
-rw-rw-r-- 1 roderick roderick  1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 roderick roderick 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 roderick roderick 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 roderick roderick 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 roderick roderick 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 roderick roderick 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 roderick roderick 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 roderick roderick 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 roderick roderick 44299 Jan 31 2020 tux-penguin.gif
roderick@RsLinux:~/practicels$ |
```

```
1: roderick@RsLinux: ~/practicels
roderick@RsLinux:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 roderick roderick  1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 roderick roderick 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 roderick roderick 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 roderick roderick 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 roderick roderick 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 roderick roderick 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 roderick roderick 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 roderick roderick 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 roderick roderick 44K Jan 31 2020 tux-penguin.gif
roderick@RsLinux:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 roderick roderick 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 roderick roderick 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 roderick roderick 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 roderick roderick 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 roderick roderick 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 roderick roderick 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 roderick roderick 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 roderick roderick 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 roderick roderick 44K Jan 31 2020 tux-penguin.gif
roderick@RsLinux:~/practicels$ |
```

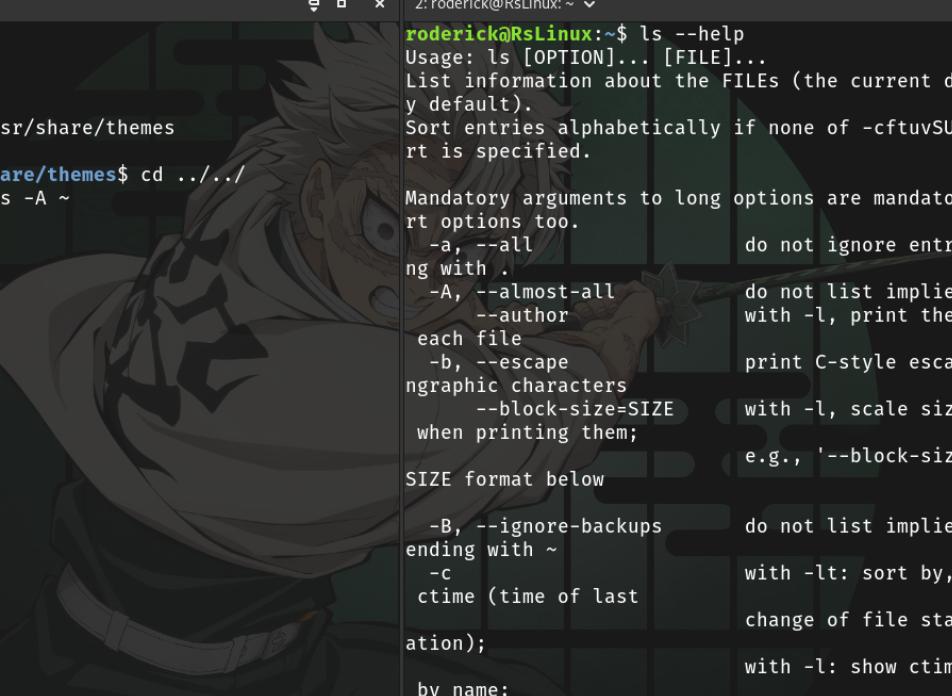


```

1: roderick@RsLinux:~/practicels
roderick@RsLinux:~/practicels$ ls -lhGS
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 160K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 109K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
roderick@RsLinux:~/practicels$ ls -mr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
roderick@RsLinux:~/practicels$ ls -1X
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml

```

## Challenge Practice



```

1: roderick@RsLinux:/usr
roderick@RsLinux:~$ pwd
/home/roderick
roderick@RsLinux:~$ cd
roderick@RsLinux:~$ cd /
roderick@RsLinux:~$ cd usr/share/themes

roderick@RsLinux:/usr/share/themes$ cd ../../..
roderick@RsLinux:/usr$ ls -A ~
.bash_aliases
.bash_history
.bash_logout
.bashrc
breathing
.cache
cis106
cis106.zip
.config
Desktop
Documents
.dotnet
Downloads
.face
.face.icon
.fonts
.gitconfig
.gnupg
'in-class notes'
'In-class practice'
lab5files

```

2: roderick@RsLinux:~\$ ls --help

Usage: ls [OPTION]... [FILE]...

List information about the FILEs (the current directory by default).

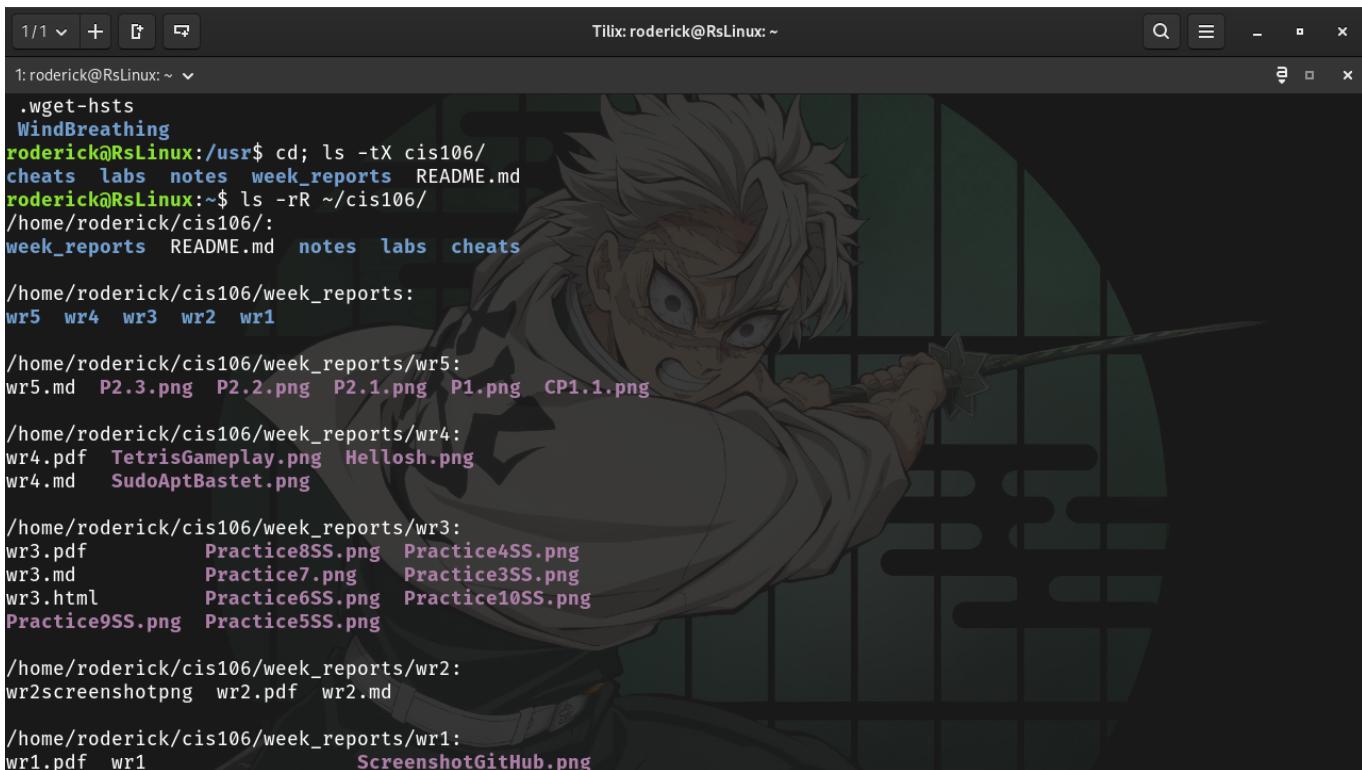
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

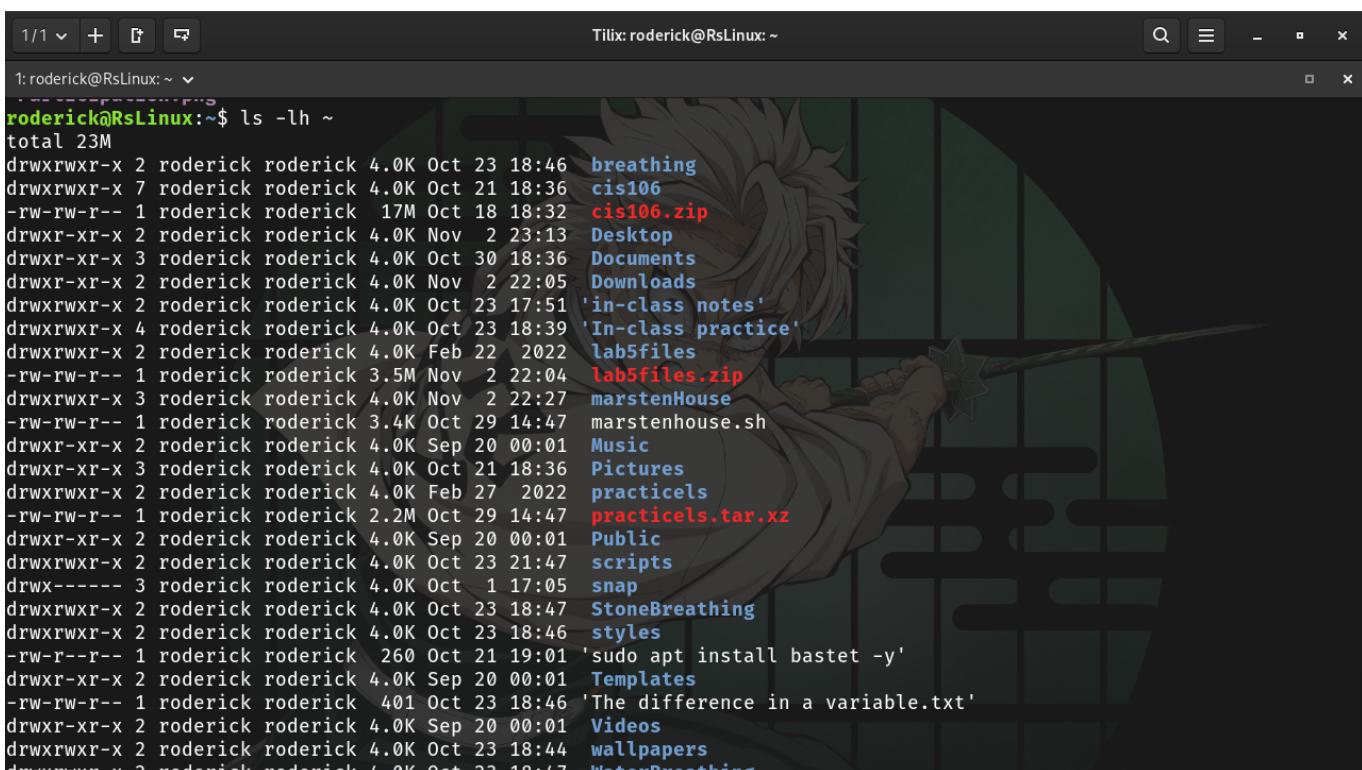
- a, --all
- do not ignore entries starting with .
- A, --almost-all
- author
- do not list implied . and ..
- b, --escape
- print C-style escapes for nongraphic characters
- c
- do not list implied entries ending with ~
- d
- print the author of each file
- e
- print C-style escapes for nongraphic characters
- f
- do not list implied . and .. with -l, print the author of each file
- g
- print C-style escapes for nongraphic characters
- h
- print sizes in human readable format (with suffixes K, M, G)
- i
- print the author of each file
- k
- print sizes in bytes
- l
- print the author of each file
- L
- print sizes in bytes
- m
- print sizes in bytes
- o
- do not ignore entries starting with .
- r
- sort entries reverse lexicographically
- s
- print sizes in bytes
- t
- sort entries by time of last modification
- v
- sort entries alphabetically
- x
- sort entries by extension
- X
- sort entries alphabetically by extension
- z
- do not ignore entries starting with .
- Z
- do not ignore entries starting with .

SIZE format below

- B, --ignore-backups
- do not list implied entries ending with ~
- C
- ctime (time of last modification);
- c
- change of file status information);
- l
- show ctime and sort by name;



```
1/1 + ⌂ ⌂ Tiliix: roderick@RsLinux: ~  
1: roderick@RsLinux: ~  
.wget-hsts  
WindBreathing  
roderick@RsLinux:/usr$ cd; ls -tX cis106/  
cheats labs notes week_reports README.md  
roderick@RsLinux:~$ ls -R ~/cis106/  
/home/roderick/cis106:  
week_reports README.md notes labs cheats  
  
/home/roderick/cis106/week_reports:  
wr5 wr4 wr3 wr2 wr1  
  
/home/roderick/cis106/week_reports/wr5:  
wr5.md P2.3.png P2.2.png P2.1.png P1.png CP1.1.png  
  
/home/roderick/cis106/week_reports/wr4:  
wr4.pdf TetrisGameplay.png HelloSh.png  
wr4.md SudoAptBastet.png  
  
/home/roderick/cis106/week_reports/wr3:  
wr3.pdf Practice8SS.png Practice4SS.png  
wr3.md Practice7.png Practice3SS.png  
wr3.html Practice6SS.png Practice10SS.png  
Practice9SS.png Practice5SS.png  
  
/home/roderick/cis106/week_reports/wr2:  
wr2screenshotpng wr2.pdf wr2.md  
  
/home/roderick/cis106/week_reports/wr1:  
wr1.pdf wr1 ScreenshotGitHub.png
```



```
1/1 + ⌂ ⌂ Tiliix: roderick@RsLinux: ~  
1: roderick@RsLinux: ~  
roderick@RsLinux:~$ ls -lh ~  
total 23M  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:46 breathing  
drwxrwxr-x 7 roderick roderick 4.0K Oct 21 18:36 cis106  
-rw-rw-r-- 1 roderick roderick 17M Oct 18 18:32 cis106.zip  
drwxr-xr-x 2 roderick roderick 4.0K Nov  2 23:13 Desktop  
drwxr-xr-x 3 roderick roderick 4.0K Oct 30 18:36 Documents  
drwxr-xr-x 2 roderick roderick 4.0K Nov  2 22:05 Downloads  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 17:51 'in-class notes'  
drwxrwxr-x 4 roderick roderick 4.0K Oct 23 18:39 'In-class practice'  
drwxrwxr-x 2 roderick roderick 4.0K Feb 22 2022 lab5files  
-rw-rw-r-- 1 roderick roderick 3.5M Nov  2 22:04 lab5files.zip  
drwxrwxr-x 3 roderick roderick 4.0K Nov  2 22:27 marstenHouse  
-rw-rw-r-- 1 roderick roderick 3.4K Oct 29 14:47 marstenhouse.sh  
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Music  
drwxr-xr-x 3 roderick roderick 4.0K Oct 21 18:36 Pictures  
drwxrwxr-x 2 roderick roderick 4.0K Feb 27 2022 practicels  
-rw-rw-r-- 1 roderick roderick 2.2M Oct 29 14:47 practicels.tar.xz  
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Public  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 21:47 scripts  
drwx----- 3 roderick roderick 4.0K Oct  1 17:05 snap  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:47 StoneBreathing  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:46 styles  
-rw-r--r-- 1 roderick roderick 260 Oct 21 19:01 'sudo apt install bastet -y'  
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Templates  
-rw-rw-r-- 1 roderick roderick 401 Oct 23 18:46 'The difference in a variable.txt'  
drwxr-xr-x 2 roderick roderick 4.0K Sep 20 00:01 Videos  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:44 wallpapers  
drwxrwxr-x 2 roderick roderick 4.0K Oct 23 18:47 WaterBreathing
```

Shell encrypting

## Practice 2

```
1: roderick@RsLinux: ~/scripts
roderick@RsLinux:~/scripts$ cd scripts/
roderick@RsLinux:~/scripts$ bash script_env_var.sh
The Current User: roderick
The Current Shell: /bin/bash
The Current's User Home: /home/roderick
The Path Var:
/usr/local/bin:/usr/bin:/bin:/usr/local/games:/usr
/games:/snap/bin:/usr/bin:/usr/bin
roderick@RsLinux:~/scripts$ |
```

### Practice 3