

Hyunjae Kim, Tue(2:00pm ~3:50pm), lab 1, 03/31/2020

B.

```
flip1 ~ 453$ ls
```

```
albs  assignments  lab-1  labs  labs1  mail  perl5  public_html  Windows.Documents
```

```
flip1 ~ 454$ ls -a
```

```
.      albs          .bash_history  .bashrc      .config      lab-1      labs1      .login      mail
perl5   .viminfo        .Xauthority
```

```
..  assignments  .bash_profile  .cache      .cshrc      labs  .local  .logout  .mailrc  public_html
Windows.Documents
```

```
flip1 ~ 455$ ls -l
```

```
total 288
```

```
drwxrwx---.  2 kimh6 upg14064   0 Mar 31 14:09 albs
drwxrwx---.  4 kimh6 upg14064  47 Mar 31 17:19 assignments
drwxrwx---.  2 kimh6 upg14064   0 Mar 31 15:26 lab-1
drwxrwx---.  4 kimh6 upg14064  57 Mar 31 15:54 labs
drwxrwx---.  3 kimh6 upg14064  24 Mar 31 16:58 labs1
drwx-----.  2 kimh6 upg14064   0 Mar 31 01:05 mail
drwxr-xr-x.  2 kimh6 upg14064   0 Mar 31 12:24 perl5
drwxr-xr-x.  2 kimh6 upg14064   0 Mar 31 01:05 public_html
drwx-----. 10 kimh6 upg14064 216 Mar 31 01:05 Windows.Documents
```

```
flip1 ~ 456$ ls -al
```

```
total 3056
```

```
drwx--x--x.  14 kimh6 upg14064   541 Mar 31 19:26 .
```

```

drwxr-xr-x. 10323 root  root    259786 Mar 31 19:08 ..
drwxrwx---.  2 kimh6 upg14064    0 Mar 31 14:09 albs
drwxrwx---.  4 kimh6 upg14064   47 Mar 31 17:19 assignments
-rw-----.  1 kimh6 upg14064  5139 Mar 31 19:13 .bash_history
-rw-r--r--.  1 kimh6 upg14064   243 Mar 31 01:05 .bash_profile
-rw-r--r--.  1 kimh6 upg14064  1601 Mar 31 01:05 .bashrc
drwxr-xr-x.  3 kimh6 upg14064    22 Mar 31 12:24 .cache
drwxr-xr-x.  3 kimh6 upg14064    22 Mar 31 12:24 .config
-rw-r--r--.  1 kimh6 upg14064  2818 Mar 31 01:05 .cshrc
drwxrwx---.  2 kimh6 upg14064    0 Mar 31 15:26 lab-1
drwxrwx---.  4 kimh6 upg14064   57 Mar 31 15:54 labs
drwxrwx---.  3 kimh6 upg14064   24 Mar 31 16:58 labs1
drwxr-xr-x.  3 kimh6 upg14064    23 Mar 31 12:24 .local
-rw-r--r--.  1 kimh6 upg14064   238 Mar 31 01:05 .login
-rw-r--r--.  1 kimh6 upg14064   205 Mar 31 01:05 .logout
drwx-----.  2 kimh6 upg14064    0 Mar 31 01:05 mail
-rw-r--r--.  1 kimh6 upg14064   154 Mar 31 01:05 .mailrc
drwxr-xr-x.  2 kimh6 upg14064    0 Mar 31 12:24 perl5
drwxr-xr-x.  2 kimh6 upg14064    0 Mar 31 01:05 public_html
-rw-----.  1 kimh6 upg14064  5632 Mar 31 19:10 .viminfo
drwx-----. 10 kimh6 upg14064   216 Mar 31 01:05 Windows.Documents
-rw-----.  1 kimh6 upg14064  1152 Mar 31 19:26 .Xauthority

```

flip1 ~ 458\$ man ls

LS(1)

User

Commands

LS(1)

NAME

ls - list directory contents

SYNOPSIS

ls [OPTION]... [FILE]...

DESCRIPTION

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

do not list implied . and ..

--author

with -l, print the author of each file

-b, --escape

print C-style escapes for nongraphic characters

--block-size=SIZE

scale sizes by SIZE before printing them; e.g., '--block-size=M' prints sizes in units of 1,048,576 bytes; see SIZE format below

-B, --ignore-backups

do not list implied entries ending with ~

-c with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first

-C list entries by columns

--color[=WHEN]

colorize the output; WHEN can be 'never', 'auto', or 'always' (the default); more info below

-d, --directory

list directories themselves, not their contents

-D, --dired

generate output designed for Emacs' dired mode

-f do not sort, enable -aU, disable -ls --color

-F, --classify

append indicator (one of */=>@|) to entries

--file-type

likewise, except do not append '*'

--format=WORD

across -x, commas -m, horizontal -x, long -l, single-column -1, verbose -l, vertical

-C

--full-time

flip1 ~ 458\$ 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 do not list implied . and ..

--author with -l, print the author of each file

-b, --escape print C-style escapes for nongraphic characters

--block-size=SIZE scale sizes by SIZE before printing them; e.g.,

'--block-size=M' prints sizes in units of

1,048,576 bytes; see SIZE format below

-B, --ignore-backups do not list implied entries ending with ~

-c with -lt: sort by, and show, ctime (time of last modification of file status information);
with -l: show ctime and sort by name;
otherwise: sort by ctime, newest first

-C list entries by columns

--color[=WHEN] colorize the output; WHEN can be 'never', 'auto', or 'always' (the default); more info below

-d, --directory list directories themselves, not their contents

-D, --dired generate output designed for Emacs' dired mode

-f do not sort, enable -aU, disable -ls --color

-F, --classify append indicator (one of */=>@|) to entries

--file-type likewise, except do not append '*'

--format=WORD across -x, commas -m, horizontal -x, long -l, single-column -1, verbose -l, vertical -C

--full-time like -l --time-style=full-iso

-g like -l, but do not list owner

--group-directories-first
group directories before files;
can be augmented with a --sort option, but any use of --sort=none (-U) disables grouping

-G, --no-group in a long listing, don't print group names

-h, --human-readable with -l, print sizes in human readable format
(e.g., 1K 234M 2G)

--si likewise, but use powers of 1000 not 1024

-H, --dereference-command-line
follow symbolic links listed on the command line

`--dereference-command-line-symlink-to-dir`
follow each command line symbolic link
that points to a directory

`--hide=PATTERN` do not list implied entries matching shell PATTERN
(overridden by `-a` or `-A`)

`--indicator-style=WORD` append indicator with style WORD to entry names:
none (default), slash (`-p`),
file-type (`--file-type`), classify (`-F`)

`-i, --inode` print the index number of each file

`-I, --ignore=PATTERN` do not list implied entries matching shell PATTERN

`-k, --kibibytes` default to 1024-byte blocks for disk usage

`-l` use a long listing format

`-L, --dereference` when showing file information for a symbolic
link, show information for the file the link
references rather than for the link itself

`-m` fill width with a comma separated list of entries

`-n, --numeric-uid-gid` like `-l`, but list numeric user and group IDs

`-N, --literal` print raw entry names (don't treat e.g. control
characters specially)

`-o` like `-l`, but do not list group information

`-p, --indicator-style=slash`
append / indicator to directories

`-q, --hide-control-chars` print ? instead of nongraphic characters
`--show-control-chars` show nongraphic characters as-is (the default,
unless program is 'ls' and output is a terminal)

`-Q, --quote-name` enclose entry names in double quotes

<code>--quoting-style=WORD</code>	use quoting style WORD for entry names: literal, locale, shell, shell-always, c, escape
<code>-r, --reverse</code>	reverse order while sorting
<code>-R, --recursive</code>	list subdirectories recursively
<code>-s, --size</code>	print the allocated size of each file, in blocks
<code>-S</code>	sort by file size
<code>--sort=WORD</code>	sort by WORD instead of name: none (-U), size (-S), time (-t), version (-v), extension (-X)
<code>--time=WORD</code>	with -l, show time as WORD instead of default modification time: atime or access or use (-u) ctime or status (-c); also use specified time as sort key if --sort=time
<code>--time-style=STYLE</code>	with -l, show times using style STYLE: full-iso, long-iso, iso, locale, or +FORMAT; FORMAT is interpreted like in 'date'; if FORMAT is FORMAT1<newline>FORMAT2, then FORMAT1 applies to non-recent files and FORMAT2 to recent files; if STYLE is prefixed with 'posix-', STYLE takes effect only outside the POSIX locale
<code>-t</code>	sort by modification time, newest first
<code>-T, --tabsize=COLS</code>	assume tab stops at each COLS instead of 8
<code>-u</code>	with -lt: sort by, and show, access time; with -l: show access time and sort by name; otherwise: sort by access time
<code>-U</code>	do not sort; list entries in directory order
<code>-v</code>	natural sort of (version) numbers within text

-w, --width=COLS	assume screen width instead of current value
-x	list entries by lines instead of by columns
-X	sort alphabetically by entry extension
-1	list one file per line

SELinux options:

--lcontext	Display security context. Enable -l. Lines will probably be too wide for most displays.
-Z, --context	Display security context so it fits on most displays. Displays only mode, user, group, security context and file name.
--scontext	Display only security context and file name.
--help	display this help and exit
--version	output version information and exit

SIZE is an integer and optional unit (example: 10M is 10*1024*1024). Units are K, M, G, T, P, E, Z, Y (powers of 1024) or KB, MB, ... (powers of 1000).

Using color to distinguish file types is disabled both by default and with --color=never. With --color=auto, ls emits color codes only when standard output is connected to a terminal. The LS_COLORS environment variable can change the settings. Use the dircolors command to set it.

Exit status:

0 if OK,

- 1 if minor problems (e.g., cannot access subdirectory),
- 2 if serious trouble (e.g., cannot access command-line argument).

GNU coreutils online help: <<http://www.gnu.org/software/coreutils/>>

For complete documentation, run: info coreutils 'ls invocation'

flip1 ~ 459\$ apropos edit

nedit (1x)	- Text Editor
audacity (1)	- Graphical cross-platform audio editor
avr-elfedit (1)	- Update the ELF header of ELF files.
bluefish (1)	- editor for experienced web designers and programmers
cinnamon-menu-editor (1)	- Editor for the panel menu
cross-elfedit (1)	- Update the ELF header of ELF files.
csh (1)	- C shell with file name completion and command line editing
desktop-file-edit (1)	- Installation and edition of desktop files
desktop-file-install (1)	- Installation and edition of desktop files
dotty (1)	- A Customizable Graph Editor
ed (1)	- line-oriented text editor
ed (1p)	- edit text
editdiff (1)	- fix offsets and counts of a hand-edited diff
editline (3)	- line editor, history and tokenization functions
editmap (8)	- query and edit single records in database maps for sendmail
editmap.sendmail (8)	- query and edit single records in database maps for sendmail
editrc (5)	- configuration file for editline library
edquota (8)	- edit user quotas
el_delestr (3)	- line editor, history and tokenization functions

el_end (3)	- line editor, history and tokenization functions
el_get (3)	- line editor, history and tokenization functions
el_getc (3)	- line editor, history and tokenization functions
el_gets (3)	- line editor, history and tokenization functions
el_history (3)	- line editor, history and tokenization functions
el_history_end (3)	- line editor, history and tokenization functions
el_history_init (3)	- line editor, history and tokenization functions
el_init (3)	- line editor, history and tokenization functions
el_insertstr (3)	- line editor, history and tokenization functions
el_line (3)	- line editor, history and tokenization functions
el_parse (3)	- line editor, history and tokenization functions
el_push (3)	- line editor, history and tokenization functions
el_reset (3)	- line editor, history and tokenization functions
el_resize (3)	- line editor, history and tokenization functions
el_set (3)	- line editor, history and tokenization functions
el_source (3)	- line editor, history and tokenization functions
el_tok_end (3)	- line editor, history and tokenization functions
el_tok_init (3)	- line editor, history and tokenization functions
el_tok_line (3)	- line editor, history and tokenization functions
el_tok_reset (3)	- line editor, history and tokenization functions
el_tok_str (3)	- line editor, history and tokenization functions
elfedit (1)	- Update the ELF header of ELF files.
epstool (1)	- Edit preview images and fix bounding boxes in EPS files.
evim (1)	- easy Vim, edit a file with Vim and setup for modeless editing
ex (1)	- Vi IMproved, a programmers text editor
ex (1p)	- text editor

gdal_edit (1) - gdal_edit.py Edit in place various information of an existing GDAL dataset

gdal_utilities (1) - GDAL Utilities The following utility programs are distributed with GDAL.

gedit (1) - text editor for the GNOME Desktop

gex (1) - Vi IMproved, a programmers text editor

Git::SVN::Editor (3pm) - commit driver for "git svn set-tree" and dcommit

gm (1) - command-line utility to create, edit, compare, convert, or display images

grub2-editenv (1) - Manage the GRUB environment block.

gview (1) - Vi IMproved, a programmers text editor

gvim (1) - Vi IMproved, a programmers text editor

gvimdiff (1) - edit two, three or four versions of a file with Vim and show differences

ibcacheedit (8) - edit an ibnetdiscover cache

inkscape (1) - an SVG (Scalable Vector Graphics) editing program.

lefty (1) - A Programmable Graphics Editor

lneato (1) - A Customizable Graph Editor

lyxclient (1) - send commands to a running LyX editor

mips64-linux-gnu-elfedit (1) - Update the ELF header of ELF files.

msgfilter (1) - edit translations of message catalog

nano (1) - Nano's ANOther editor, an enhanced free Pico clone

nedit-client (1x) - Client program for NEdit text editor

nfs4_editfacl (1) - manipulate NFSv4 file/directory access control lists

nm-connection-editor (1) - network connection editor for NetworkManager

npm-edit (1) - Edit an installed package

ospam (1) - An SGML/XML markup stream editor

pdbedit (8) - manage the SAM database (Database of Samba Users)

tc-pedit (8) - generic packet editor action

pico (1) - simple text editor in the style of the Alpine Composer

pmlogconf (1)	- create/edit a pmlogger configuration file
policyeditor (1)	- view and modify security policy settings for javaws and the browser plugin
psed (1)	- a stream editor
readline (3)	- get a line from a user with editing
red (1)	- line-oriented text editor
rediff (1)	- fix offsets and counts of a hand-edited diff
rm nano (1)	- Restricted mode for Nano's ANOther editor, an enhanced free Pico clone
rvi (1)	- Vi IMproved, a programmers text editor
rview (1)	- Vi IMproved, a programmers text editor
rvim (1)	- Vi IMproved, a programmers text editor
s2p (1)	- a stream editor
samba-regedit (8)	- ncurses based tool to manage the Samba registry
sed (1)	- stream editor for filtering and transforming text
sed (1p)	- stream editor
singularity-config-global (1)	- Edit singularity.conf from command line (root user only)
tc-skbedit (8)	- SKB editing action
spam (1)	- An SGML/XML markup stream editor
sudoeedit (8)	- execute a command as another user
tc-skbmod (8)	- user-friendly packet editor action
tcsh (1)	- C shell with file name completion and command line editing
ttk::entry (n)	- Editable text field widget
vi (1)	- Vi IMproved, a programmers text editor
vi (1p)	- screen-oriented (visual) display editor
view (1)	- Vi IMproved, a programmers text editor
vigr (8)	- edit the password, group, shadow-password or shadow-group file
vim (1)	- Vi IMproved, a programmers text editor

vimdiff (1) - edit two, three or four versions of a file with Vim and show differences

vimdot (1) - Combined text editor and dot viewer

vimrc (5) - Vi IMproved, a programmers text editor

vimx (1) - Vi IMproved, a programmers text editor

vipw (8) - edit the password, group, shadow-password or shadow-group file

virg (5) - Vi IMproved, a programmers text editor

visudo (8) - edit the sudoers file

vorbiscomment (1) - List or edit comments in Ogg Vorbis files

XmDataFieldSetEditable (3) - A DataField function that sets the edit permission

XmListUpdateSelectedList (3) - A List function that updates the XmNselectedItems resource

XmTextFieldGetEditable (3) - A TextField function that accesses the edit permission state

XmTextFieldSetEditable (3) - A TextField function that sets the edit permission

XmTextGetEditable (3) - A Text function that accesses the edit permission state

XmTextSetEditable (3) - A Text function that sets the edit permission

yum-groups-manager (1) - create and edit yum's group metadata

zipnote (1) - write the comments in zipfile to stdout, edit comments and rename files
in zipfile

zshzle (1) - zsh command line editor

flip1 ~ 460\$ s

bash: s: command not found

flip1 ~ 461\$ aropos editor

bash: aropos: command not found

flip1 ~ 462\$ aropos editor

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flip1 ~ 462\$ apropos editor

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bluefish (1) - editor for experienced web designers and programmers

cinnamon-menu-editor (1) - Editor for the panel menu

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lyxclient (1)	- send commands to a running LyX editor
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nedit (1x)	- Text Editor
nedit-client (1x)	- Client program for NEdit text editor
nm-connection-editor (1)	- network connection editor for NetworkManager
ospam (1)	- An SGML/XML markup stream editor
pico (1)	- simple text editor in the style of the Alpine Composer
policyeditor (1)	- view and modify security policy settings for javaws and the browser plugin
psed (1)	- a stream editor
red (1)	- line-oriented text editor
rnano (1)	- Restricted mode for Nano's ANOther editor, an enhanced free Pico clone
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rview (1)	- Vi IMproved, a programmers text editor
rvim (1)	- Vi IMproved, a programmers text editor
s2p (1)	- a stream editor
sed (1)	- stream editor for filtering and transforming text

sed (1p)	- stream editor
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tc-pedit (8)	- generic packet editor action
tc-skbmod (8)	- user-friendly packet editor action
vi (1)	- Vi IMproved, a programmers text editor
vi (1p)	- screen-oriented (visual) display editor
view (1)	- Vi IMproved, a programmers text editor
vim (1)	- Vi IMproved, a programmers text editor
vimdot (1)	- Combined text editor and dot viewer
vimrc (5)	- Vi IMproved, a programmers text editor
vimx (1)	- Vi IMproved, a programmers text editor
vinc (5)	- Vi IMproved, a programmers text editor
zshzle (1)	- zsh command line editor

flip1 ~ 463\$ apropos directory

abrt-action-analyze-backtrace (1) - Analyzes C/C++ backtrace, generates duplication hash, backtrace rating, and identifies crash function in problem directory DIR.

abrt-action-analyze-c (1) - Calculate and save UUID for a problem data directory DIR with coredump.

abrt-action-analyze-oops (1) - Calculate and save UUID and duplicate hash for a problem data directory DIR with kernel oops.

abrt-action-analyze-python (1) - Calculate and save UUID and duplicate hash for a problem data directory DIR with Python crash data.

abrt-action-analyze-xorg (1) - Calculate and save UUID and duplicate hash for a problem data directory DIR with Xorg backtrace.

adcli (8)	- Tool for performing actions on an Active Directory domain
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alphasort (3)	- scan a directory for matching entries
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basename (1) - strip directory and suffix from filenames

basename (1p) - return non-directory portion of a pathname

bindtextdomain (3) - set directory containing message catalogs

cacertdir_rehash (8) - simple script to create or update hash links to certificate files in a directory

cargo-init (1) - Create a new Cargo package in an existing directory

cd (1p) - change the working directory

cd (n) - Change working directory

chacl (1) - change the access control list of a file or directory

chdir (2) - change working directory

chdir (3p) - change working directory

chroot (1) - run command or interactive shell with special root directory

chroot (2) - change root directory

closedir (3) - close a directory

closedir (3p) - close a directory stream

cups-config (1) - get cups api, compiler, directory, and link information.

cups-files.conf (5) - file and directory configuration file for cups

Cwd (3pm) - get pathname of current working directory

dbus-cleanup-sockets (1) - clean up leftover sockets in a directory

depmod.d (5) - Configuration directory for depmod

dir (1) - list directory contents

dirent.h (0p) - format of directory entries

dirfd (3) - get directory stream file descriptor

DirHandle (3pm) - supply object methods for directory handles

dirname (1p) - return the directory portion of a pathname

dirname (3p) - report the parent directory name of a file pathname

faccessat (2) - check user's permissions of a file relative to a directory file descriptor

FcCacheCreateTagFile (3) - Create CACHEDIR.TAG at cache directory.

FcCacheDir (3) - Return directory of cache

FcCacheSubdir (3) - Return the i'th subdirectory.

FcConfigAppFontAddDir (3) - Add fonts from directory to font database

FcConfigEnableHome (3) - controls use of the home directory.

FcConfigGetSysRoot (3) - Obtain the system root directory

FcConfigHome (3) - return the current home directory.

FcConfigSetSysRoot (3) - Set the system root directory

FcDirCacheClean (3) - Clean up a cache directory

FcDirCacheCreateUUID (3) - Create .uuid file at a directory

FcDirCacheLoad (3) - load a directory cache

FcDirCacheRead (3) - read or construct a directory cache

FcDirCacheRescan (3) - Re-scan a directory cache

FcDirCacheValid (3) - check directory cache

FcDirSave (3) - DEPRECATED: formerly used to save a directory cache

FcDirScan (3) - scan a font directory without caching it

FcFileIsDir (3) - check whether a file is a directory

fchdir (2) - change working directory

fchdir (3p) - change working directory

fchmodat (2) - change permissions of a file relative to a directory file descriptor

fchownat (2) - change ownership of a file relative to a directory file descriptor

FcStrDirname (3) - directory part of filename

fdopendir (3) - open a directory

File::Basename (3pm) - Parse file paths into directory, filename and suffix.

File::Find (3pm) - Traverse a directory tree.

File::Listing (3pm) - parse directory listing

File::Path (3pm) - Create or remove directory trees

find (1) - search for files in a directory hierarchy

find-jar (1) - find extension JAR or directory

FindBin (3pm) - Locate directory of original perl script

flatpak-build (1) - Build in a directory

flatpak-build-export (1) - Create a repository from a build directory

flatpak-build-finish (1) - Finalize a build directory

flatpak-build-init (1) - Initialize a build directory

flatpak-build-update-repo (1) - Create a repository from a build directory

fstatat (2) - get file status relative to a directory file descriptor

fstatat64 (2) - get file status relative to a directory file descriptor

function::task_cwd_path (3step) - get the path struct pointer for a task's current working directory

futimesat (2) - change timestamps of a file relative to a directory file descriptor

get_current_dir_name (3) - get current working directory

getcwd (2) - get current working directory

getcwd (3) - get current working directory

getcwd (3p) - get the pathname of the current working directory

getdents (2) - get directory entries

getdents64 (2) - get directory entries

getdirentries (3) - get directory entries in a file system-independent format

getwd (3) - get current working directory

getwd (3p) - get the current working directory pathname (LEGACY)

git-clone (1) - Clone a repository into a new directory

git-mv (1) - Move or rename a file, a directory, or a symlink

git-stash (1) - Stash the changes in a dirty working directory away

grub2-mknetdir (1) - Prepare a GRUB netboot directory.

IO::Dir (3pm)	- supply object methods for directory handles
ldap (3)	- OpenLDAP Lightweight Directory Access Protocol API
linkat (2)	- create a file link relative to directory file descriptors
lndir (1)	- create a shadow directory of symbolic links to another directory tree
lookup_dcookie (2)	- return a directory entry's path
ls (1)	- list directory contents
ls (1p)	- list directory contents
mkdir (2)	- create a directory
mkdir (3p)	- make a directory
mkdirat (2)	- create a directory relative to a directory file descriptor
mkdirhier (1)	- makes a directory hierarchy
mkdtemp (3)	- create a unique temporary directory
mkfifoat (3)	- make a FIFO (named pipe) relative to a directory file descriptor
mkfontdir (1)	- create an index of X font files in a directory
mklost+found (8)	- create a lost+found directory on a mounted Linux second extended file system
mknod (3p)	- make a directory, a special file, or a regular file
mknodat (2)	- create a special or ordinary file relative to a directory file descriptor
mktemp (1)	- create a temporary file or directory
modprobe.conf (5)	- Configuration directory for modprobe
modprobe.d (5)	- Configuration directory for modprobe
mountpoint (1)	- see if a directory is a mountpoint
Net::LDAP (3pm)	- Lightweight Directory Access Protocol
Net::LDAP::Extra::eDirectory (3pm)	- extensions for Novell eDirectory
nfs4_editfacl (1)	- manipulate NFSv4 file/directory access control lists
nfs4_getfacl (1)	- get NFSv4 file/directory access control lists

nfs4_setfacl (1) - manipulate NFSv4 file/directory access control lists

ntfsls (8) - list directory contents on an NTFS filesystem

oldfind (1) - search for files in a directory hierarchy

openat (2) - open a file relative to a directory file descriptor

opendir (3) - open a directory

opendir (3p) - open a directory

pam_mkhomedir (8) - PAM module to create users home directory

pam_oddjob_mkhomedir (8) - PAM module to create users home directory via oddjob

pmdads389 (1) - 389 Directory Server PMDA

pmdads389log (1) - 389 Directory Server Log PMDA

Pod::Find (3pm) - find POD documents in directory trees

Pod::Simple::Search (3pm) - find POD documents in directory trees

probe::nfsd.unlink (3tap) - NFS server removing a file or a directory for client

pwd (1) - print name of current/working directory

pwd (1p) - return working directory name

pwd (n) - Return the absolute path of the current working directory

pwdx (1) - report current working directory of a process

readdir (2) - read directory entry

readdir (3) - read a directory

readdir (3p) - read a directory

readdir_r (3) - read a directory

readdir_r (3p) - read a directory

readlinkat (2) - read value of a symbolic link relative to a directory file descriptor

remove (3) - remove a file or directory

renameat (2) - rename a file relative to directory file descriptors

repomanage (1) - list the newest or oldest RPM packages in a directory

reporter-mailx (1) - Sends contents of a problem directory via email.

reporter-upload (1) - Uploads compressed tarball of problem directory.

reposync (1) - synchronize yum repositories to a local directory

revpath (1) - generate a relative path that can be used to undo a change-directory

rewinddir (3) - reset directory stream

rewinddir (3p) - reset the position of a directory stream to the beginning of a directory

rm (1p) - remove directory entries

rmdir (2) - delete a directory

rmdir (3p) - remove a directory

sa2 (8) - Write a daily report in the /var/log/sa directory.

scandir (3) - scan a directory for matching entries

scandirat (3) - scan a directory relative to a directory file descriptor

sd_journal_open_directory (3) - Open the system journal for reading

seekdir (3) - set the position of the next readdir() call in the directory stream.

seekdir (3p) - set the position of a directory stream

singularity-oci-create (1) - Create a container from a bundle directory (root user only)

singularity-oci-run (1) - Create/start/attach/delete a container from a bundle directory (root user only)

smbcacls (1) - Set or get ACLs on an NT file or directory names

sssd-ad (5) - SSSD Active Directory provider

symlinkat (2) - create a symbolic link relative to a directory file descriptor

Tcl_Chdir (3) - manipulate the current working directory

Tcl_FSCopyDirectory (3) - procedures to interact with any filesystem

Tcl_FSCreateDirectory (3) - procedures to interact with any filesystem

Tcl_FSMatchInDirectory (3) - procedures to interact with any filesystem

Tcl_FSRemoveDirectory (3) - procedures to interact with any filesystem

Tcl_GetCwd (3) - manipulate the current working directory

Tcl_TranslateFileName (3) - convert file name to native form and replace tilde with home directory

telldir (3) - return current location in directory stream

telldir (3p) - current location of a named directory stream

TIFFWriteDirectory (3tiff) - write the current directory in an open TIFF file

TIFFQuery (3tiff) - query routines

TIFFPrintDirectory (3tiff) - print a description of a TIFF directory

TIFFReadDirectory (3tiff) - get the contents of the next directory in an open TIFF file

TIFFSetDirectory (3tiff) - set the current directory for an open TIFF file

tk_chooseDirectory (n) - pops up a dialog box for the user to select a directory.

unlink (3p) - remove a directory entry

unlinkat (2) - remove a directory entry relative to a directory file descriptor

vdir (1) - list directory contents

versionsort (3) - scan a directory for matching entries

XmFileSelectionDoSearch (3) - A FileSelectionBox function that initiates a directory search

flip1 ~ 465\$ apropos directory | less

abrt-action-analyze-backtrace (1) - Analyzes C/C++ backtrace, generates duplication hash, backtrace rating, and identifies crash function in problem directory DIR.

abrt-action-analyze-c (1) - Calculate and save UUID for a problem data directory DIR with coredump.

abrt-action-analyze-oops (1) - Calculate and save UUID and duplicate hash for a problem data directory DIR with kernel oops.

abrt-action-analyze-python (1) - Calculate and save UUID and duplicate hash for a problem data directory DIR with Python crash data.

abrt-action-analyze-xorg (1) - Calculate and save UUID and duplicate hash for a problem data directory DIR with Xorg backtrace.

adcli (8)	- Tool for performing actions on an Active Directory domain
alphasort (3)	- scan a directory for matching entries
basename (1)	- strip directory and suffix from filenames
basename (1p)	- return non-directory portion of a pathname
bindtextdomain (3)	- set directory containing message catalogs
cacertdir_rehash (8)	- simple script to create or update hash links to certificate files in a directory
cargo-init (1)	- Create a new Cargo package in an existing directory
cd (1p)	- change the working directory
cd (n)	- Change working directory
chacl (1)	- change the access control list of a file or directory
chdir (2)	- change working directory
chdir (3p)	- change working directory
chroot (1)	- run command or interactive shell with special root directory
chroot (2)	- change root directory
closedir (3)	- close a directory
closedir (3p)	- close a directory stream
cups-config (1)	- get cups api, compiler, directory, and link information.
cups-files.conf (5)	- file and directory configuration file for cups
Cwd (3pm)	- get pathname of current working directory
dbus-cleanup-sockets (1)	- clean up leftover sockets in a directory
depmod.d (5)	- Configuration directory for depmod
dir (1)	- list directory contents
dirent.h (0p)	- format of directory entries
dirfd (3)	- get directory stream file descriptor
DirHandle (3pm)	- supply object methods for directory handles
dirname (1p)	- return the directory portion of a pathname

dirname (3p) - report the parent directory name of a file pathname

faccessat (2) - check user's permissions of a file relative to a directory file descriptor

FcCacheCreateTagFile (3) - Create CACHEDIR.TAG at cache directory.

FcCacheDir (3) - Return directory of cache

FcCacheSubdir (3) - Return the i'th subdirectory.

FcConfigAppFontAddDir (3) - Add fonts from directory to font database

FcConfigEnableHome (3) - controls use of the home directory.

FcConfigGetSysRoot (3) - Obtain the system root directory

FcConfigHome (3) - return the current home directory.

FcConfigSetSysRoot (3) - Set the system root directory

FcDirCacheClean (3) - Clean up a cache directory

FcDirCacheCreateUUID (3) - Create .uuid file at a directory

FcDirCacheLoad (3) - load a directory cache

FcDirCacheRead (3) - read or construct a directory cache

FcDirCacheRescan (3) - Re-scan a directory cache

FcDirCacheValid (3) - check directory cache

FcDirSave (3) - DEPRECATED: formerly used to save a directory cache

FcDirScan (3) - scan a font directory without caching it

FcFileIsDir (3) - check whether a file is a directory

fchdir (2) - change working directory

fchdir (3p) - change working directory

fchmodat (2) - change permissions of a file relative to a directory file descriptor

fchownat (2) - change ownership of a file relative to a directory file descriptor

FcStrDirname (3) - directory part of filename

fdopendir (3) - open a directory

File::Basename (3pm) - Parse file paths into directory, filename and suffix.

File::Find (3pm) - Traverse a directory tree.

```
flip1 ~ 466$ cd labs2
```

```
flip1 ~/labs2 467$ mkdir lab_1
```

```
flip1 ~/labs2 468$ cd lab_1
```

```
flip1 ~/labs2/lab_1 469$ pwd
```

```
/nfs/stak/users/kimh6/labs2/lab_1
```

```
flip1 ~/labs2/lab_1 470$ cd ..
```

```
flip1 ~/labs2 471$ pwd
```

```
/nfs/stak/users/kimh6/labs2
```

```
flip1 ~/labs2 472$ cd ~
```

```
flip1 ~ 473$ pwd
```

```
/nfs/stak/users/kimh6
```

```
flip1 ~ 486$ cd labs2/lab_1
```

```
flip1 ~/labs2/lab_1 487$ pwd
```

```
/nfs/stak/users/kimh6/labs2/lab_1
```

- E. 1. In case of GNU compiler, it informs that where the error is, and the reason of error. In case of Clang compiler, it shows the whole line where the error is, and the reason of error.
2. In case of GNU compiler, it showed that 'cout' and 'endl' were not declared in the scope.
- In case of Clang compiler, it showed that both 'cout' and 'endl' were not declared in the scope, and there were warning which was informing that using directives refers to implicitly-defined namespace 'std'.
3. There were no error messages when I do both GNU compiler and Clang compiler.
4. In case of Clang compiler, there were 2 warnings and 1 error. Both warnings were about missing ' " ' character, and the error message was ' expressed expression'.

In case of GNU compiler, there were errors and warning messages about missing ' " ' character, and there were also errors in the function 'int main()'. Error messages were that in the function, 'in' was not declared and there was expected ';' before 'work'.

Challenge 1. #include <iostream>

using namespace std;

int main(){

cout << "Turn"

<< " in work late and ignore deadlines" << endl;

return 0;

}

Output : Turn in work late and ignore deadlines

I would use '<<' to put the first word of my advice on one line and rest of the advice on another line in my program.

Challenge 2

#include <iostream>

using namespace std;

int main(){

cout << "Turn"

<<endl << " in work late and ignore deadlines" << endl;

```
return 0;
```

```
}
```

Output : Turn

in work late and ignore deadlines

I would put '<<endl' between "Turn" and "in work late and ignore deadlines" in order to put the first word of my advice on one line and rest of the advice on another line in the output to the screen.

F. 1. My program will request 4 inputs from the user.

2. I will decide 'good fortunes' and 'bad fortunes' as data types to use for each variables.

3. I will predict both good fortunes and bad fortunes.