



Carátula para entrega de prácticas

Facultad de Ingeniería

Laboratorios de docencia

Laboratorio de Computación Salas A y B

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Asignatura: Fundamentos de programación

Grupo: 15

No de Práctica(s): 2

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Observaciones:

CALIFICACIÓN: _____

```
estudiante@Belice19 ~ % ls /usr
X11      X11R6      bin      lib      libexec  local    sbin     share    standalo
```

ls /usr ; Usado para indicar el directorio raíz y usamos usr para referirnos al directorio en concreto

```
A1      Algebra Lineal  Downloads      Movies      Public      carpeta 2      carpeta2      escuela      f2
A2      Desktop      ELEFANTE      Music      archivos      carpeta 3      carpeta 3      f1      f3
A3      Documents      Library      Pictures      carpeta 1      carpeta1      chamba      f1.txt      listas
estudiante@Belice19 ~ %
```

ls. ; Usado para referirnos al directorio padre

```
-A      Include directory entries whose names begin with a dot ('.') except for . and ... Automatically set for the super-user unless -I is specified.
-B      Force printing of non-printable characters (as defined by ctype(3) and current locale settings) in file names as \xxx, where xxx is the numeric value of the character in octal. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-C      Force multi-column output; this is the default when output is to a terminal.
-D format      When printing in the long (-l) format, use format to format the date and time output. The argument format is a string used by strftime(3). Depending on the choice of format string, this may result in a different number of columns in the output. This option overrides the -T option. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-F      Display a slash ('/') immediately after each pathname that is a directory, an asterisk (*) after each that is executable, an at sign (@) after each symbolic link, an equals sign (=) after each socket, a percent sign (%) after each vertical bar (|) after each that is a FIFO.
-G      Enable colorized output. This option is equivalent to defining CLICOLOR or COLORTERM in the environment and setting --color=auto. (See below.) This functionality can be compiled out by removing the definition of COLORDLS. This option is IEEE Std 1003.1-2008 ("POSIX.1").
-H      Symbolic links on the command line are followed. This option is assumed if none of the -F, -d, or -l options are specified.
-I      Prevent -A from being automatically set for the super-user. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-L      Follow all symbolic links to final target and list the file or directory the link references rather than the link itself. This option cancels the -P option.
-O      Include the file flags in a long (-l) output. This option is incompatible with IEEE Std 1003.1-2008 ("POSIX.1"). See chflags(1) for a list of file flags and their meanings.
-P      If argument is a symbolic link, list the link itself rather than the object the link references. This option cancels the -H and -L options.
-R      Recursively list subdirectories encountered.
-S      Sort by size (largest file first) before sorting the operands in lexicographical order.
-T      When printing in the long (-l) format, display complete time information for the file, including month, day, hour, minute, second, and year. The -D option gives even more control over the output format. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-U      Use time when file was created for sorting or printing. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-W      Display whiteouts when scanning directories. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-a      Include directory entries whose names begin with a dot ('.').
-Aa      As -a, but use C escape codes whenever possible. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-c      Use time when file status was last changed for sorting or printing.

--color=when      Output colored escape sequences based on when, which may be set to either always, auto, or never.

always will make ls always output color. If TERM is unset or set to an invalid terminal, then ls will fall back to explicit ANSI escape sequences without the help of termcap(5). always is the default if --color is specified without an argument.
auto will make ls output escape sequences based on termcap(5), but only if stdout is a tty and either the -G flag is specified or the COLORTERM environment variable is set and not empty.
never will disable color regardless of environment variables. never is the default when neither --color nor -G is specified.

For compatibility with GNU coreutils, ls supports yes or force as equivalent to always, no or none as equivalent to never, and tty or if-tty as equivalent to auto.

-d      Directories are listed as plain files (not searched recursively).
-e      Print the Access Control List (ACL) associated with the file, if present, in long (-l) output.
-f      Output is not sorted. This option turns on -a. It also negates the effect of the -r, -S and -t options. As allowed by IEEE Std 1003.1-2008 ("POSIX.1"), this option has no effect on the -d, -l, -R and -s options.
-g      This option has no effect. It is only available for compatibility with 4.3BSD, where it was used to display the group name in the long (-l) format output. This option is incompatible with IEEE Std 1003.1-2008 ("POSIX.1").
-h      When used with the -l option, use unit suffixes: Byte, Kilobyte, Megabyte, Gigabyte, Terabyte and Petabyte in order to reduce the number of digits to four or fewer using base 2 for sizes. This option is not defined in IEEE Std 1003.1-2008 ("POSIX.1").
-i      For each file, print the file's file serial number (inode number).
-k      This has the same effect as setting environment variable BLOCKSIZE to 1024, except that it also nullifies any -h options to its left.
-l      (The lowercase letter "ell") List files in the long format, as described in the The Long Format subsection below.
-m      Stream output format: list files across the page, separated by commas.
-n      Display user and group IDs numerically rather than converting to a user or group name in a long (-l) output. This option turns on the -l option.
```

man ls ; Lo usamos para ver todos los comando que están disponibles en GNU/Linux

```
estudiante@Belice19 ~ % ls ../../usr
X11      X11R6      bin      lib      libexec  local    sbin     share    standalone
estudiante@Belice19 ~ %
```

ls ../../usr ; Lo usamos para listar los archivos del directorio usr

```
estudiante@Belice19 ~ % cd gpo18d
estudiante@Belice19 gpo18d % ls
hola.c ios lin win
estudiante@Belice19 gpo18d % gcc hola.c -o hola
estudiante@Belice19 gpo18d % ls
hola hola.c ios lin win
estudiante@Belice19 gpo18d % ./hola

Hola Mundo
estudiante@Belice19 gpo18d %
```

cd nombre_carpeta ; usado para ubicarse en una carpeta en concreto

```
estudiante@Belice19 ~ % mkdir tareas
mkdir: tareas: File exists
estudiante@Belice19 ~ % ls
A1 Algebra Lineal Downloads Movies Public carpeta 2 carpeta2 escuela f2 luis.txt monas notas2 tareas
A2 Desktop ELEFANTE Music Music archivos carpeta 3 carpeta1 chamba f3 f3 lukaylolol monaschinas practicaSW trabajo
A3 Documents Library Pictures Pictures carpeta 1 carpeta1 chinas f1.txt listas memorandum notas1 seccion2
```

mkdir nombre_carpeta ; Lo usamos para crear una carpeta en el directorio que nos encontremos

```
estudiante@Belice19 ~ % touch luis.txt
estudiante@Belice19 ~ % ls
A1 Algebra Lineal Downloads Movies Public carpeta 3 chamba f1 f3 memorandum notas1 seccion2
A2 Desktop ELEFANTE Music Music archivos carpeta 1 carpeta1 chinas f1.txt f2 listas monas monaschinas practicaSW trabajo
A3 Documents Library Pictures Pictures carpeta 2 carpeta2 escuela f2 listas luis.txt monaschinas practicaSW
estudiante@Belice19 ~ %
```

touch nombre_archivo[.ext] ; Nos da la capacidad de crear un archivo de la extensión especificada en el directorio seleccionado

```
estudiante@Belice19 /Users % cd ..
estudiante@Belice19 / % pwd
/
estudiante@Belice19 / % ls
Applications Library System Users Volumes bin cores dev etc home opt private sbin tmp usr var
estudiante@Belice19 / % cd Users
estudiante@Belice19 /Users % ls
LC-AB Shared administrador alumno estudiante
estudiante@Belice19 /Users % cd estudiante
estudiante@Belice19 % ls
A1 Algebra Lineal Downloads Movies Public carpeta 2 carpeta2 escuela f2 luis.txt monas notas2 tareas
A2 Desktop ELEFANTE Music Music archivos carpeta 3 carpeta1 chamba f3 f3 lukaylolol monaschinas practicaSW trabajo
A3 Documents Library Pictures Pictures carpeta 1 carpeta1 chinas f1.txt listas memorandum notas1 seccion2
estudiante@Belice19 % cd Algebra\ Lineal
estudiante@Belice19 Algebra Lineal % ls ..
A1 Algebra Lineal Downloads Movies Public carpeta 2 carpeta2 escuela f2 luis.txt monas notas2 tareas
A2 Desktop ELEFANTE Music Music archivos carpeta 3 carpeta1 chamba f3 f3 lukaylolol monaschinas practicaSW trabajo
A3 Documents Library Pictures Pictures carpeta 1 carpeta1 chinas f1.txt listas memorandum notas1 seccion2
estudiante@Belice19 Algebra Lineal % ls ../..
LC-AB Shared administrador alumno estudiante
estudiante@Belice19 Algebra Lineal % ls ../../..
Applications Library System Users Volumes bin cores dev etc home opt private sbin tmp usr var
estudiante@Belice19 Algebra Lineal % █
```

pwd ;nos permite saber la ubicación de donde nos encontramos

```

Last login: Fri Feb 16 15:13:23 on console
[estudiante@Belice19 ~ % ls
A1          ELEFANTE          carpeta 2      f1             monaschinas
A2          Library            carpeta 3      f1.txt         notas1
A3          Movies              carpeta1       f2             notas2
Algebra Lineal Music            carpeta2       f3             practicaSW
Desktop     Pictures            chamba         listas          seccion2
Documents   Public              chin          memorandum     trabajo
Downloads   carpeta 1          escuela        monas
[estudiante@Belice19 ~ % ls .
A1          ELEFANTE          carpeta 2      f1             monaschinas
A2          Library            carpeta 3      f1.txt         notas1
A3          Movies              carpeta1       f2             notas2
Algebra Lineal Music            carpeta2       f3             practicaSW
Desktop     Pictures            chamba         listas          seccion2
Documents   Public              chin          memorandum     trabajo
Downloads   carpeta 1          escuela        monas
[estudiante@Belice19 ~ % ls -l
zsh: command not found: ls -l
[estudiante@Belice19 ~ % ls -l
zsh: command not found: ls -l
[estudiante@Belice19 ~ % ls -l
total 88
-rw-r--r--  1 estudiante  staff   34 Feb 16 13:51 A1
-rw-r--r--  1 estudiante  staff   44 Feb 16 13:48 A2
-rw-r--r--  1 estudiante  staff    7 Feb 16 13:49 A3
drwxr-xr-x  2 estudiante  staff   64 Feb 16 13:47 Algebra Lineal
drwx-----+ 6 estudiante  staff  192 Feb 16 15:43 Desktop
drwx-----+ 3 estudiante  staff   96 Feb 16 11:05 Documents
drwx-----+ 4 estudiante  staff  128 Feb 16 14:15 Downloads
-rw-r--r--  1 estudiante  staff  240 Feb 16 14:24 ELEFANTE
drwx-----@ 74 estudiante  staff 2368 Feb 16 13:04 Library
drwx-----  4 estudiante  staff  128 Feb 16 13:16 Movies
drwx-----+ 3 estudiante  staff   96 Feb 16 11:05 Music
drwx-----+ 3 estudiante  staff   96 Feb 16 11:05 Pictures
drwxr-xr-x+  4 estudiante  staff  128 Feb 16 11:05 Public
drwxr-xr-x  2 estudiante  staff   64 Feb 16 13:46 carpeta 1
drwxr-xr-x  2 estudiante  staff   64 Feb 16 13:46 carpeta 2
drwxr-xr-x  2 estudiante  staff   64 Feb 16 13:46 carpeta 3
-rw-r--r--  1 estudiante  staff   34 Feb 16 13:52 carpeta1
-rw-r--r--  1 estudiante  staff   34 Feb 16 13:54 carpeta2
drwxr-xr-x  2 estudiante  staff   64 Feb 16 12:40 chamba
drwxr-xr-x  2 estudiante  staff   64 Feb 16 13:23 chin          esc
drwxr-xr-x  2 estudiante  staff   64 Feb 16 12:45 escuela
-rw-r--r--  1 estudiante  staff    4 Feb 16 14:47 f1
-rw-r--r--  1 estudiante  staff    0 Feb 16 14:45 f1.txt
-rw-r--r--  1 estudiante  staff    5 Feb 16 14:47 f2
-rw-r--r--  1 estudiante  staff    2 Feb 16 14:47 f3
-rw-r--r--  1 estudiante  staff 2188 Feb 16 14:37 listas
-rw-r--r--  1 estudiante  staff  229 Feb 16 14:34 memorandum
drwxr-xr-x  2 estudiante  staff   64 Feb 16 13:23 monas
drwxr-xr-x 10 estudiante  staff  320 Feb 16 13:40 monaschinas
drwxr-xr-x  2 estudiante  staff   64 Feb 16 14:43 notas1
drwxr-xr-x  5 estudiante  staff  160 Feb 16 14:54 notas2
drwxr-xr-x  3 estudiante  staff   96 Feb 16 14:25 practicaSW
drwxr-xr-x  3 estudiante  staff   96 Feb 16 14:26 seccion2
-rw-r--r--  1 estudiante  staff    0 Feb 16 12:46 trabajo
[estudiante@Belice19 ~ %

```

ls . ;Usado para listar los elementos que existen en alguna ubicación del sistema

```
estudiante@Belice19 ~ % find . -name tareas
./tareas
estudiante@Belice19 ~ % find . -name luis.txt
./luis.txt
estudiante@Belice19 ~ %
```

`find . -name cadena_buscar` ; Los usamos para buscar un elemento dentro del sistema de archivos.

```
estudiante@Belice19 ~ % cd archivos/
estudiante@Belice19 archivos % cp ../datos.txt .
estudiante@Belice19 archivos % ls
datos.txt
estudiante@Belice19 archivos % mv ../tareas/ .
estudiante@Belice19 archivos % ls
datos.txt      tareas
estudiante@Belice19 archivos %
```

`cp archivo_origen archivo_destino` ; Nos da la capacidad de copiar un archivo a un destino en específico

`mv ubicación_origen/archivo ubicación_destino` ; Nos moverá un archivo de una ubicación específica a otra en concreto