



**UNIVERSIDAD
CATÓLICA
DE CÓRDOBA
JESUITAS**

**SISTEMAS OPERATIVOS
TRABAJO PRÁCTICO N°6**

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Ejercicio 1:

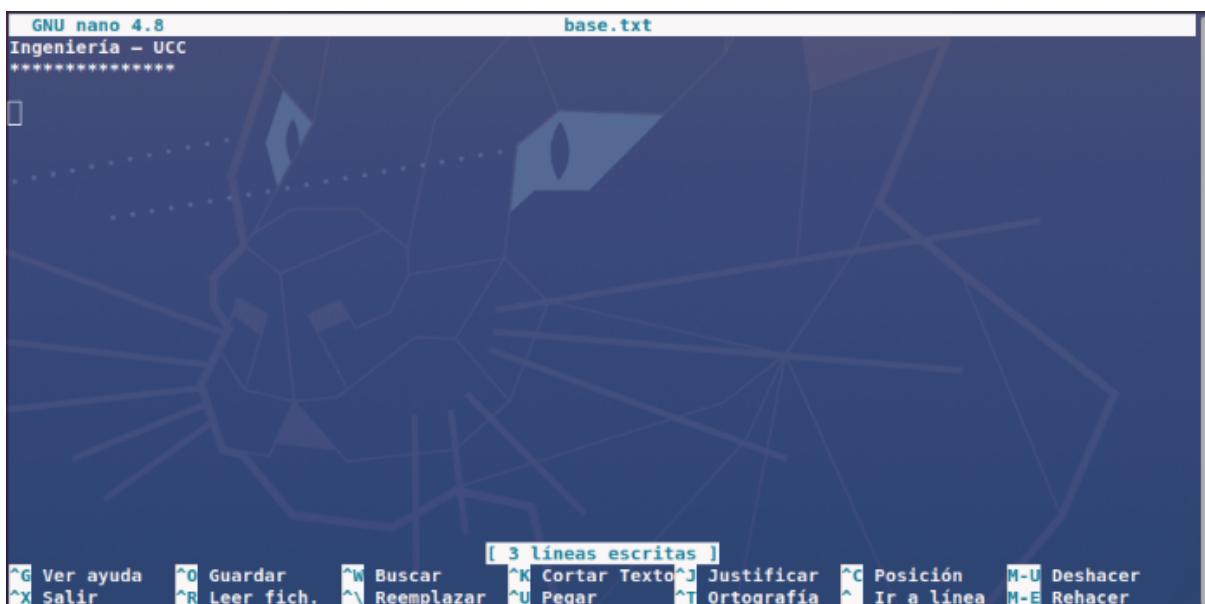
```
vietto@vietto:~$ cd home
vietto@vietto:~/home$ sudo touch /tmp/DocEmpty.txt
vietto@vietto:~/home$ cd ..
vietto@vietto:~/tmp$ ls
config-err-xTAMT6
DocEmpty.txt
mc-vietto
snap.snap-store
ssh-JZJn6JRvZieV
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-colord.service-ysIKdg
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-fwupd.service-VWh7Df
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-geoclue.service-f5YVRh
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-ModemManager.service-Y11QNF
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-switcheroo-control.service-JaFU8e
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-systemd-logind.service-ck0FHh
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-systemd-resolved.service-vHhxYe
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-systemd-timesyncd.service-odKVah
systemd-private-d617e8d4a17c47a7a00dbba3b9ec8c18-upower.service-Jqz5xi
Temp-e58c1376-f202-4d71-92a0-8eee4503bebb
tmpaddon
tracker-extract-files.1000
tracker-extract-files.125
```

Ejercicio 2:

```
vietto@vietto:~/tmp$ cd ..
vietto@vietto:~/home$ sudo cp /tmp/DocEmpty.txt /home/base.txt
vietto@vietto:~/home$ ls
base.txt  lost+found  vietto
```

Ejercicio 3:

```
vietto@vietto:~/home$ sudo nano base.txt
vietto@vietto:~/home$
```



Ejercicio 4:

```
vietto@vietto:/home$ sudo su  
root@vietto:/home# cat /var/log/fontconfig.log >> base.txt  
root@vietto:/home# nano base.txt
```

The screenshot shows the nano text editor window with the title "base.txt". The content of the file is a log of font configuration details from "/var/log/fontconfig.log". The log entries show various font paths being checked for existing caches, with most being skipped due to validity. The bottom of the window shows the standard nano key bindings.

```
GNU nano 4.8                                base.txt  
Ingeniería - UCC  
*****  
  
/usr/share/fonts: skipping, existing cache is valid: 0 fonts, 6 dirs  
/usr/share/fonts/X11: skipping, existing cache is valid: 0 fonts, 4 dirs  
/usr/share/fonts/X11/Typel: skipping, existing cache is valid: 43 fonts, 0 dirs  
/usr/share/fonts/X11/encodings: skipping, existing cache is valid: 0 fonts, 1 dirs  
/usr/share/fonts/X11/encodings/large: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/X11/misc: skipping, existing cache is valid: 89 fonts, 0 dirs  
/usr/share/fonts/X11/util: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cMap: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap: skipping, existing cache is valid: 0 fonts, 5 dirs  
/usr/share/fonts/cmap/adobe-cns1: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-gb1: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-japan1: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-japan2: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-koreal: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/opentype: skipping, existing cache is valid: 0 fonts, 3 dirs  
/usr/share/fonts/opentype/malayalam: skipping, existing cache is valid: 7 fonts, 0 dirs  
/usr/share/fonts/opentype/noto: skipping, existing cache is valid: 28 fonts, 0 dirs  
/usr/share/fonts/opentype/urw-base35: skipping, existing cache is valid: 35 fonts, 0 dirs  
/usr/share/fonts/truetype: skipping, existing cache is valid: 0 fonts, 48 dirs  
/usr/share/fonts/truetype/Gargi: skipping, existing cache is valid: 1 fonts, 0 dirs  
  
^G Ver ayuda   ^O Guardar   ^W Buscar   ^K Cortar Texto ^J Justificar   ^C Posición   M-U Deshacer  
^X Salir      ^R Leer fich.  ^Y Reemplazar  ^U Pegar    ^I Ortografía  ^_ Ir a línea M-E Rehacer
```

Ejercicio 5:

Con el comando more podemos listar el archivo de a poco, en donde con la tecla “enter” mostramos línea por línea y con “space” podemos hacer saltos de líneas y mostrar de a muchas más.

```
vietto@vietto:/home$ more base.txt  
Ingeniería - UCC  
*****  
  
/usr/share/fonts: skipping, existing cache is valid: 0 fonts, 6 dirs  
/usr/share/fonts/X11: skipping, existing cache is valid: 0 fonts, 4 dirs  
/usr/share/fonts/X11/Typel: skipping, existing cache is valid: 43 fonts, 0 dirs  
/usr/share/fonts/X11/encodings: skipping, existing cache is valid: 0 fonts, 1 dirs  
/usr/share/fonts/X11/encodings/large: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/X11/misc: skipping, existing cache is valid: 89 fonts, 0 dirs  
/usr/share/fonts/X11/util: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cMap: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap: skipping, existing cache is valid: 0 fonts, 5 dirs  
/usr/share/fonts/cmap/adobe-cns1: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-gb1: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-japan1: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-japan2: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/cmap/adobe-koreal: skipping, existing cache is valid: 0 fonts, 0 dirs  
/usr/share/fonts/opentype: skipping, existing cache is valid: 0 fonts, 3 dirs  
/usr/share/fonts/opentype/malayalam: skipping, existing cache is valid: 7 fonts, 0 dirs  
/usr/share/fonts/opentype/noto: skipping, existing cache is valid: 28 fonts, 0 dirs  
/usr/share/fonts/opentype/urw-base35: skipping, existing cache is valid: 35 fonts, 0 dirs  
/usr/share/fonts/truetype: skipping, existing cache is valid: 0 fonts, 48 dirs  
/usr/share/fonts/truetype/Gargi: skipping, existing cache is valid: 1 fonts, 0 dirs  
/usr/share/fonts/truetype/Gubbii: skipping, existing cache is valid: 1 fonts, 0 dirs  
/usr/share/fonts/truetype/Nakula: skipping, existing cache is valid: 1 fonts, 0 dirs  
/usr/share/fonts/truetype/Navilu: skipping, existing cache is valid: 1 fonts, 0 dirs  
--Más--(16%)
```

Ejercicio 6:

```
vietto@vietto:/home$ tr fonts FONTS < base.txt
INgeNieria - UCC
*****
/uSr/Share/FONTS: SkippiNg, existiNg cache is valid: 0 FONTS, 6 dirs
/uSr/Share/FONTS/X11: SkippiNg, existiNg cache is valid: 0 FONTS, 4 dirs
/uSr/Share/FONTS/X11/Type1: SkippiNg, existiNg cache is valid: 43 FONTS, 0 dirs
/uSr/Share/FONTS/X11/eNcOdiNgS: SkippiNg, existiNg cache is valid: 0 FONTS, 1 dirs
/uSr/Share/FONTS/X11/eNcOdiNgS/large: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/X11/miSc: SkippiNg, existiNg cache is valid: 89 FONTS, 0 dirs
/uSr/Share/FONTS/X11/uTil: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/cMap: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/cmap: SkippiNg, existiNg cache is valid: 0 FONTS, 5 dirs
/uSr/Share/FONTS/cmap/adobe-cNS1: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/cmap/adobe-gb1: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/cmap/adobe-japaN1: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/cmap/adobe-japaN2: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/cmap/adobe-korea1: SkippiNg, existiNg cache is valid: 0 FONTS, 0 dirs
/uSr/Share/FONTS/OpeNType: SkippiNg, existiNg cache is valid: 0 FONTS, 3 dirs
/uSr/Share/FONTS/OpeNType/malayalam: SkippiNg, existiNg cache is valid: 7 FONTS, 0 dirs
/uSr/Share/FONTS/OpeNType/NOTO: SkippiNg, existiNg cache is valid: 28 FONTS, 0 dirs
/uSr/Share/FONTS/OpeNType/urw-base35: SkippiNg, existiNg cache is valid: 35 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType: SkippiNg, existiNg cache is valid: 0 FONTS, 48 dirs
/uSr/Share/FONTS/TrueType/Gargi: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType/Gubbi: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType/Nakula: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType/Navilu: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType/Sahadeva: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType/Sarai: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
/uSr/Share/FONTS/TrueType/abySSiNica: SkippiNg, existiNg cache is valid: 1 FONTS, 0 dirs
```

Ejercicio 7:

```
vietto@vietto:/home$ cat -n base.txt
1 Ingenieria - UCC
2 ****
3
4 /usr/share/fonts: skipping, existing cache is valid: 0 fonts, 6 dirs
5 /usr/share/fonts/X11: skipping, existing cache is valid: 0 fonts, 4 dirs
6 /usr/share/fonts/X11/Type1: skipping, existing cache is valid: 43 fonts, 0 dirs
7 /usr/share/fonts/X11/encodings: skipping, existing cache is valid: 0 fonts, 1 dirs
8 /usr/share/fonts/X11/encodings/large: skipping, existing cache is valid: 0 fonts, 0 dirs
9 /usr/share/fonts/X11/misc: skipping, existing cache is valid: 89 fonts, 0 dirs
10 /usr/share/fonts/X11/util: skipping, existing cache is valid: 0 fonts, 0 dirs
11 /usr/share/fonts/cMap: skipping, existing cache is valid: 0 fonts, 0 dirs
12 /usr/share/fonts/cmap: skipping, existing cache is valid: 0 fonts, 5 dirs
13 /usr/share/fonts/cmap/adobe-cns1: skipping, existing cache is valid: 0 fonts, 0 dirs
14 /usr/share/fonts/cmap/adobe-gb1: skipping, existing cache is valid: 0 fonts, 0 dirs
15 /usr/share/fonts/cmap/adobe-japan1: skipping, existing cache is valid: 0 fonts, 0 dirs
16 /usr/share/fonts/cmap/adobe-japan2: skipping, existing cache is valid: 0 fonts, 0 dirs
17 /usr/share/fonts/cmap/adobe-korea1: skipping, existing cache is valid: 0 fonts, 0 dirs
18 /usr/share/fonts/opentype: skipping, existing cache is valid: 0 fonts, 3 dirs
19 /usr/share/fonts/opentype/malayalam: skipping, existing cache is valid: 7 fonts, 0 dirs
20 /usr/share/fonts/opentype/noto: skipping, existing cache is valid: 28 fonts, 0 dirs
21 /usr/share/fonts/opentype/urw-base35: skipping, existing cache is valid: 35 fonts, 0 dirs
22 /usr/share/fonts/truetype: skipping, existing cache is valid: 0 fonts, 48 dirs
23 /usr/share/fonts/truetype/Gargi: skipping, existing cache is valid: 1 fonts, 0 dirs
24 /usr/share/fonts/truetype/Gubbi: skipping, existing cache is valid: 1 fonts, 0 dirs
25 /usr/share/fonts/truetype/Nakula: skipping, existing cache is valid: 1 fonts, 0 dirs
26 /usr/share/fonts/truetype/Navilu: skipping, existing cache is valid: 1 fonts, 0 dirs
27 /usr/share/fonts/truetype/Sahadeva: skipping, existing cache is valid: 1 fonts, 0 dirs
28 /usr/share/fonts/truetype/Sarai: skipping, existing cache is valid: 1 fonts, 0 dirs
```

Ejercicio 8:

```
root@vietto:/home# touch numeros.txt
root@vietto:/home# ls
base.txt  lost+found  numeros.txt  vietto
root@vietto:/home# seq 1 20 > numeros.txt
root@vietto:/home# cat numeros.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

Ejercicio 9:

Además del sort, otro comando que podemos usar es el tac seguido del nombre del archivo, ejemplo:

- tac numeros.txt

```
root@vietto:/home# sort -r -h numeros.txt
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
```

Ejercicio 10:

```
root@vietto:/home# head -n 5 numeros.txt
1
2
3
4
5
```

Ejercicio 11:

```
root@vietto:/home# tail -n 5 numeros.txt
16
17
18
19
20
```

Ejercicio 12:

```
root@vietto:/home# cp /home/numeros.txt /home/numeros.bak
root@vietto:/home# ls
base.txt  lost+found  numeros.bak  numeros.txt  vietto
```

Ejercicio 13:

```
root@vietto:/home# nano numeros.txt
root@vietto:/home#
```

The screenshot shows the nano text editor interface. The title bar says "GNU nano 4.8" and the file name is "numeros.txt". The main area displays the following text:

```
1 Santiago
2 Martin
3 Sol
4 Pedro
5 Lucia
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

The status bar at the bottom right indicates "20 lineas leidas". Below the status bar, a menu of keyboard shortcuts is visible.

^G Ver ayuda	^O Guardar	^W Buscar	^K Cortar Texto	^J Justificar	^C Posición	M-U Deshacer
^X Salir	^R Leer fich.	^A Reemplazar	^U Pegar	^T Ortografía	^I Ir a linea	M-E Rehacer

Ejercicio 14:

```
root@vietto:/home# diff numeros.txt numeros.bak
1,5c1,5
< 1 Santiago
< 2 Martin
< 3 Sol
< 4 Pedro
< 5 Lucia
---
> 1
> 2
> 3
> 4
> 5
```

Ejercicio 15:

```
root@vietto:/home# ls
base.txt lost+found numeros.bak numeros.txt vietto
root@vietto:/home# tar -cvf numeros.tar numeros.txt numeros.bak
numeros.txt
numeros.bak
root@vietto:/home# ls
base.txt lost+found numeros.bak numeros.tar numeros.txt vietto
root@vietto:/home# 
```