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Lab 5

List the user commands and redirect the output to /tmp/commands.list
 -R /bin > /tmp/commands.list

```
mazen-saad@mazen-saad:~$ ls -R /bin > /tmp/commands.list
mazen-saad@mazen-saad:~$

mazen-saad@mazen-saad:~$
```

2. Count the number of user commands

wc -l /tmp/commands.list wc -w /tmp/commands.list wc -c /tmp/commands.list

```
mazen-saad@mazen-saad:~$ wc -l /tmp/commands.list
1440 /tmp/commands.list
mazen-saad@mazen-saad:~$ wc -w /tmp/commands.list
1440 /tmp/commands.list
mazen-saad@mazen-saad:~$ wc -c /tmp/commands.list
14717 /tmp/commands.list
mazen-saad@mazen-saad:~$

mazen-saad@mazen-saad:~$
```

3. Get all the users names whose first character in their login is 'g'.

grep '^g' /etc/passwd or

cut -d: -f1 /etc/passwd | grep '^g'

```
mazen-saad@mazen-saad:-$ grep '^g' /etc/passwd
games:x:5:60:games:/usr/games:/usr/sbin/nologin
geoclue:x:114:117::/var/lib/geoclue:/usr/sbin/nologin
gnome-initial-setup:x:119:65534::/run/gnome-initial-setup/:/bin/false
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-remote-desktop:x:985:985:GNOME Remote Desktop:/var/lib/gnome-remote-desktop:/usr/sbin/nologin
mazen-saad@mazen-saad:-$
```

```
mazen-saad@mazen-saad:-$ cut -d: -f1 /etc/passwd | grep '^g'
games
geoclue
gnome-initial-setup
gdm
gnome-remote-desktop
mazen-saad@mazen-saad:-$
```

4. Get the logins name and full names (comment) of logins starts with "g".

grep '^g' /etc/passwd | cut -d: -f1,5

```
mazen-saad@mazen-saad:~$ grep '^g' /etc/passwd | cut -d: -f1,5
games:games
geoclue:
gnome-initial-setup:
gdm:Gnome Display Manager
gnome-remote-desktop:GNOME Remote Desktop
mazen-saad@mazen-saad:~$
```

5. Save the output of the last command sorted by their full names in a file.

```
grep '^g' /etc/passwd | cut -d: -f1,5 | sort -t: -k2 >
~/Documents/sorted_g_users.list
or
!! | sort -t: -k2 > ~/Documents/sorted_g_users2.list
```

```
mazen-saad@mazen-saad:~$ grep '^g' /etc/passwd | cut -d: -f1,5 | sort -t: -k
2 > ~/Documents/sorted_g_users.list
mazen-saad@mazen-saad:~$ cat ~/Documents/sorted_g_users.list
geoclue:
gnome-initial-setup:
games:games
gdm:Gnome Display Manager
gnome-remote-desktop:GNOME Remote Desktop
mazen-saad@mazen-saad:~$
```

6. Write two commands:

first: to search for all files on the system that named .bash_profile. Second: sorts the output of Is command on / recursively, Saving their output and error in 2 different files and sending them to the background. 1-

find / -name .bash_profile find / -name .bash_profile -type f find / -name .bash_profile 2>/dev/null

```
mazen-saad@mazen-saad:~$ find / -name .bash_profile -type f
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/cups/ssl': Permission denied
find: '/etc/credstore': Permission denied
find: '/etc/credstore': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/home/islam': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/ldconfig': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/apparmor/baad73a1.0': Permission denied
find: '/var/cache/apparmor/8eeb6286.0': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
```

ls -R / > ~/Documents/ls_output.log 2> ~/Documents/ls_error.log & jobs

7. Display the number of users who is logged now to the system.

who | wc -l

```
mazen-saad@mazen-saad:~$ who | wc -l
2
mazen-saad@mazen-saad:~$ 

mazen-saad@mazen-saad:~$
```

8. Display lines 7 to line 10 of /etc/passwd file

head -10 /etc/passwd | tail -4

```
mazen-saad@mazen-saad:-$ head -10 /etc/passwd | tail -4
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
mazen-saad@mazen-saad:-$
```

9. Issue the command sleep 100.

sleep 100

```
mazen-saad@mazen-saad:~$ sleep 100
```

10. Stop the last command.

cntrl+z(Stopped)

```
mazen-saad@mazen-saad:-$ sleep 100
^Z
[1]+ Stopped sleep 100
mazen-saad@mazen-saad:-$
```

11. Resume the last command in the background

bg %1

```
mazen-saad@mazen-saad:~$ sleep 100
^Z
[1]+ Stopped sleep 100
mazen-saad@mazen-saad:~$ jobs
[1]+ Stopped sleep 100
mazen-saad@mazen-saad:~$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:~$

mazen-saad@mazen-saad:~$

mazen-saad@mazen-saad:~$
```

12. Issue the jobs command and see its output.

jobs

```
mazen-saad@mazen-saad:-$ sleep 100
^Z
[1]+ Stopped sleep 100
mazen-saad@mazen-saad:-$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:-$ jobs
[1]+ Running sleep 100 &
mazen-saad@mazen-saad:-$

[1]+ Stopped sleep 100 &
mazen-saad@mazen-saad:-$ jobs
[1]+ Running sleep 100 &
mazen-saad@mazen-saad:-$
```

13. Send the sleep command to the foreground and send it again to the background.

```
fg %1
ctrl+z => ^Z
bg %1
```

```
mazen-saad@mazen-saad:~$ sleep 100
^Z
[1]+ Stopped
                            sleep 100
mazen-saad@mazen-saad:~$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:~$ jobs
[1]+ Running
                             sleep 100 &
mazen-saad@mazen-saad:~$ fg %1
sleep 100
^Z
[1]+ Stopped
                            sleep 100
mazen-saad@mazen-saad:~$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:~$
```

14. Kill the sleep command.

kill -9 %1

```
mazen-saad@mazen-saad:-$ sleep 100
^Z
[1]+ Stopped sleep 100
mazen-saad@mazen-saad:-$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:-$ jobs
[1]+ Running sleep 100 &
mazen-saad@mazen-saad:-$ fg %1
sleep 100
^Z
[1]+ Stopped sleep 100
mazen-saad@mazen-saad:-$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:-$ bg %1
[1]+ sleep 100 &
mazen-saad@mazen-saad:-$ jobs
[1]+ Killed sleep 100
mazen-saad@mazen-saad:-$ jobs
[1]+ Killed sleep 100
mazen-saad@mazen-saad:-$
```

15. Display your processes only

ps -u \$(whoami) or ps -u mazen-saad

```
mazen-saad@mazen-saad: ^
nazen-saad@mazen-saad:-$ ps -u mazen-saad
PID TTY TIME CMD
  2301 ?
2307 ?
                        00:00:18 systemd
                        00:00:00 (sd-pam)
  2319 ?
2321 ?
                        00:11:28 pipewire 00:00:00 pipewire
   2324 ?
                        00:00:03 wireplumber
                        00:14:44 pipewire-pulse
00:00:01 gnome-keyring-d
00:00:09 dbus-daemon
   2327 ?
   2329 ?
   2338 ?
   2369 ?
                        00:00:01 xdg-document-po
                        00:00:00 xdg-permission-
00:00:00 gdm-x-session
00:13:55 Xorg
   2374 ?
  2440 tty2
2442 tty2
   2482 ?
                        00:00:00 snapd-desktop-i
  2537 ?
2567 tty2
                        00:00:02 snapd-desktop-i
00:00:00 gnome-session-b
  2585 ?
2594 ?
                        00:00:02 xdg-desktop-por
                        00:00:21 xdg-desktop-por
00:00:00 at-spi-bus-laun
   2619 ?
   2634 ?
                        00:00:02 dbus-daemon
                        00:00:10 at-spi2-registr
00:00:00 gvfsd
00:00:00 gvfsd-fuse
   2640 ?
   2656 ?
```

16. Display all processes except yours

```
ps -u $(whoami) -N
or
ps -u mazen-saad -N
```

```
mazen-saad@mazen-saad: ^
mazen-saad@mazen-saad: $ ps -u mazen-saad -N
PID TTY TIME CMD
1 ? 00:00:12 systemd
2 ? 00:00:00 kthreadd
                                       00:00:00 pool_workqueue_release
00:00:00 kworker/R-rcu_g
            3 ?
            5 ?
6 ?
                                       00:00:00 kworker/R-rcu_p
                                       00:00:00 kworker/R-slub_

00:00:00 kworker/R-netns

00:00:00 kworker/0:0H-events_highpri
            7 ?
9 ?
                                       00:00:00 kworker/R-mm_pe
00:00:00 rcu_tasks_kthread
00:00:00 rcu_tasks_rude_kthread
00:00:00 rcu_tasks_trace_kthread
00:00:01 ksoftirqd/0
          12 ?
13 ?
         14 ?
15 ?
16 ?
                                       00:00:01 ksorti qu/0
00:00:42 rcu_preempt
00:00:00 migration/0
00:00:00 idle_inject/0
          17 ?
18 ?
         19 ?
20 ?
21 ?
22 ?
23 ?
24 ?
                                       00:00:00 cpuhp/0
00:00:00 cpuhp/1
00:00:00 idle_inject/1
                                       00:00:00 migration/1
00:00:00 ksoftirqd/1
```

17. Use the pgrep command to list your processes only

```
pgrep -u $(whoami) -l
or
pgrep -u mazen-saad -l
```

```
mazen-saad@mazen-saad:-$ pgrep -u mazen-saad -l
2301 systemd
2307 (sd-pam)
2319 pipewire
2321 pipewire
2322 pipewire-pulse
2329 gnome-keyring-d
2338 dbus-daemon
2369 xdg-document-po
2374 xdg-permission-
2440 gdm-x-session
2442 Xorg
2482 snapd-desktop-i
2537 snapd-desktop-i
2537 snapd-desktop-i
2537 snapd-desktop-or
2548 xdg-desktop-por
2549 xdg-desktop-por
2540 dbus-daemon
2640 at-spiz-bus-laun
2634 dbus-daemon
2640 at-spiz-registr
2656 gyfsd
2689 gyfsd-fuse
2711 ocr-ssb-agent
```

18. Copy /etc/passwd to your home directory, use the commands diff and Edit in the

cp /etc/passwd ~/newpasswd diff /etc/passwd ~/newpasswd vi ~/newpasswd diff /etc/passwd ~/newpasswd

```
mazen-saad@mazen-saad:-$ cp /etc/passwd ~/newpasswd
mazen-saad@mazen-saad:-$ diff /etc/passwd ~/newpasswd
mazen-saad@mazen-saad:-$ vi ~/newpasswd
mazen-saad@mazen-saad:-$ diff /etc/passwd ~/newpasswd
1c1
< root:x:0:0:root:/root:/bin/bash
---
mazen-saad@mazen-saad:-$

mazen-saad@mazen-saad:-$

mazen-saad@mazen-saad:-$
```

19. file you copied, and then use these command again, and check the output.

cp /etc/passwd ~/newpasswd diff /etc/passwd ~/newpasswd vi ~/newpasswd diff /etc/passwd ~/newpasswd

```
mazen-saad@mazen-saad: $ cp /etc/passwd ~/newpasswd
mazen-saad@mazen-saad: $ diff /etc/passwd ~/newpasswd
mazen-saad@mazen-saad: $ vi ~/newpasswd
mazen-saad@mazen-saad: $ diff /etc/passwd ~/newpasswd
1c1
< root:x:0:0:root:/root:/bin/bash
---
mazen-saad@mazen-saad: $ cp /etc/passwd ~/newpasswd
mazen-saad@mazen-saad: $ diff /etc/passwd ~/newpasswd
mazen-saad@mazen-saad: $ vi ~/newpasswd
mazen-saad@mazen-saad: $ diff /etc/passwd ~/newpasswd
mazen-saad@mazen-saad: $ diff /etc/pas
```

20. List the inode numbers of /, /etc, /etc/hosts.

ls -i /

Is -i /etc

Is -i /etc/hosts

```
m<mark>azen-saad@mazen-saad:~</mark>$ ls -i /
                                     13 lib
     12 bin
                                                                                                       16 swap.img
3407873 bin.usr-is-merged
                                     14 lib64
                                                               5636097 root
                               393217 lib.usr-is-merged
11 lost+found
3538945 media
                                                                                                 5242881 tmp
6815745 boot
2883585 cdrom
                                                                                                 7995393 usr
786433 var
                                                                    15 sbin
                                                              10616833 sbin.usr-is-merged
3670017 etc
                                4063233 mnt
                                                               6291457 snap
5111809 home
                                9830401 opt
                                                              11403265 srv
mazen-saad@mazen-saad:~$
```

```
mazen-saad@mazen-saad:~$ ls -i /etc
3670383 adduser.conf
                                  3670405 hdparm.conf
                                                                 3672776 prime-discrete
                                  3670406 host.conf
3672767 hostname
                                                                 3670442 profile
3672878 adjtime
                                                                 3670114 p
3670030 alsa
3670031 alternatives
                                  3670407 hosts
                                                                 3670443 protocols
3670384 anacrontab
                                  3670409 hosts.allow
                                                                 3670115 pulse
3670385 apg.conf
                                  3670410 hosts.deny
                                                                 3670117 python3
3670032 api
                                  3670080 hp
                                                                 3670116 python3.12
3670034 аррагтог
                                  3670081 ifplugd
                                                                 3670118 rc0.d
3670033 apparmor.d
                                  3670083 init
                                                                 3670119 rc1.d
3670035 apport
                                  3670082 init.d
                                                                 3670120 rc2.d
3670036 apt
                                  3670084 initramfs-tools
                                                                 3670121 rc3.d
                                  3670411 inputrc
3670037 avahi
                                                                 3670122 rc4.d
3670386 bash.bashrc
3670387 bash_completion
                                                                 3670123 rc5.d
                                  3670085 insserv.conf.d
                                                                 3670124 rc6.d
                                  3670086 ipp-usb
3670388 bindresvport.blacklist 3670087 iproute2
                                                                 3670125 rcS.d
3670038 binfmt.d
                                  3670412 issue
                                                                 3670021 resolv.conf
                                  3670413 issue.net
3670039 bluetooth
                                                                 3670022 rmt
                                                                 3670444 грс
3670389 brlapi.key
                                  3670088 kerne
3670040 br
                                  3670414 kerneloops.conf
                                                                 3670445 rsyslog.conf
3670390 brltty.conf
                                  3670089 krb5.conf.d
                                                                 3670126
3670041 ca-certificates
                                                                 3670446 rygel.conf
3670127 same.d
                                  3670091 ldap
                                  3670284 ld.so.cache
3670391 ca-certificates.conf
3670042
                                                                 2670120
```

```
mazen-saad@mazen-saad: $ ls -i /etc/hosts
3670407 /etc/hosts
mazen-saad@mazen-saad: $ 

maze
```

21. Find all the files whose permissions are 777.

find / -perm 777

```
mazen-saad@mazen-saad:-$ find / -perm 777 2>/dev/null
```

22. Find all 777 permission directories.

find / -type d -perm 777

```
mazen-saad@mazen-saad: $ find / -type d -perm 777
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/sss/: Permission denied
find: '/etc/credstore': Permission denied
find: '/etc/credstore': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/home/islam': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/apparmor/baad73a1.0': Permission denied
find: '/var/cache/apparmor/Beeb6286.0': Permission denied
find: '/var/spool/cups': Permission denied
find: '/var/spool/cups': Permission denied
find: '/var/spool/cron/crontabs': Permission denied
find: '/var/lib/pat/lists/partial': Permission denied
find: '/var/lib/disks2': Permission denied
find: '/var/lib/disks2': Permission denied
find: '/var/lib/snapd/cache': Permission denied
find: '/var/lib/snapd/snapshots': Permission denied
find: '/var/lib/snapd/snapshots': Permission denied
find: '/var/lib/snapd/void': Permission denied
```

23. find all the files which are greater than 50MB and less than 100MB.

find / -size +50M -size -100M

```
mazen-saad@mazen-saad: $ find / -size +50M -size -100M
/boot/initrd.img-6.8.0-35-generic
/boot/initrd.img-6.8.0-35-generic
/boot/initrd.img-6.8.0-31-generic
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/sssl/private': Permission denied
find: '/etc/sssl': Permission denied
find: '/etc/sssd': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/home/islam': Permission denied
find: '/home/islam': Permission denied
find: '/home/mazen-saad/locuments/ls_output.log
/home/mazen-saad/locuments/ls_output.log
/home/mazen-saad/.config/google-chrome/extensions_crx_cache/cfhdojbkjhnklbpkdaibdccddilifddb_1.6a215b3638dfcb91d
347f43fde31ea165c76b87dfe710e1dc2ca59dad046e27f
/home/mazen-saad/.config/google-chrome/extensions_crx_cache/gighmmpiobklfepjocnamgkkbiglidom_1.34f093899995422b0
e167a1dc3ec71017160267caf392fd9ca9d9ed271617b1a
/home/mazen-saad/Downloads/K-Lite_codec_Pack_1826_Full.exe
/home/mazen-saad/Downloads/code_1.89.1-1715060508_amd64.deb
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/cups': Permission denied
find: '/var/cache/apparmor/baad73a1.0': Permission denied
```

24. find all the files which are modified in the last 1 hour. find / -mmin -60

```
mazen-saad@mazen-saad:-$ find / -mmin -60
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/ssl/private': Permission denied
/etc/cups
find: '/etc/cups/ssl': Permission denied
/etc/cups/subscriptions.conf.0
/etc/cups/subscriptions.conf
find: '/etc/sssd': Permission denied
find: '/etc/credstore': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
/dev/ptmx
/dev/ptmx
/dev/snd/pcmC1D0p
find: '/home/tslam': Permission denied
/home/mazen-saad
/home/mazen-saad
/local/state/wireplumber
/home/mazen-saad/.local/state/wireplumber/restore-stream
/home/mazen-saad/.local/share
/home/mazen-saad/.local/share/gvfs-metadata/home
```

25. Compress a file by compress, gzip, bzip2 commands and decompress it again. State the differences between compress, gzip, bzip2 commands.

Is -R / > ~/Documents/file25.txt 2> /dev/null

du -sh ~/Documents/file25.txt

compress ~/Documents/file25.txt du -sh ~/Documents/file25.txt.Z uncompress ~/Documents/file25.txt.Z

gzip ~/Documents/file25.txt du -sh ~/Documents/file25.txt.gz gunzip ~/Documents/file25.txt.gz

bzip2 ~/Documents/file25.txt du -sh ~/Documents/file25.txt.bz2 bunzip2 ~/Documents/file25.txt.bz2

```
mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt

5.0M /home/mazen-saad/locuments/file25.txt

mazen-saad@mazen-saad:-$ compress ~/Documents/file25.txt

mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt.Z

1.2M /home/mazen-saad:-$ uncompress ~/Documents/file25.txt.Z

mazen-saad@mazen-saad:-$ uncompress ~/Documents/file25.txt.Z

mazen-saad@mazen-saad:-$ uncompress ~/Documents/file25.txt

mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt

mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt

mazen-saad@mazen-saad:-$ gzip ~/Documents/file25.txt.gz

mazen-saad@mazen-saad:-$ uncompress ~/Documents/file25.txt.gz

mazen-saad@mazen-saad:-$ uncompress ~/Documents/file25.txt.gz

mazen-saad@mazen-saad:-$ bzip2 ~/Documents/file25.txt

5.0M /home/mazen-saad/bocuments/file25.txt

Command 'bzip2' not found, but can be installed with:

sudo apt install bzip2

mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt

mazen-saad@mazen-saad:-$ bzip2 ~/Documents/file25.txt

mazen-saad@mazen-saad:-$ burzip2 ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ burzip2 ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ du -sh ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ hurzip2 ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ hurzip2 ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ hurzip2 ~/Documents/file25.txt.bz2

mazen-saad@mazen-saad:-$ hurzip2 ~/Documents/file25.txt

5.0M /home/mazen-saad/Documents/file25.txt

mazen-saad@mazen-saad/bacuments/file25.txt

mazen-saad@mazen-saad/bacuments/file25.txt

mazen-saad@mazen-saad/bacuments/file25.txt

mazen-saad@mazen-saad/bacuments/file25.txt

mazen-saad@mazen-saad/bacuments/file25.txt

mazen-saad@mazen-saad/bacuments/file25.txt
```

26. Backup /etc directory using tar utility.

tar -cvf ~/Documents/etc_backup.tar /etc or sudo tar -cvf ~/Documents/etc_backup.tar /etc

```
mazen-saad@mazen-saad: $ tar .cvf ~/Documents/etc_backup.tar /etc
tar: Removing leading '/' from member names
/etc/
/etc/dhcpcd.conf
/etc/brltty/
/etc/brltty/Attributes/
/etc/brltty/Attributes/left_right.atb
/etc/brltty/Attributes/invleft_right.atb
/etc/brltty/Attributes/invleft_right.atb
/etc/brltty/Contraction/
/etc/brltty/Contraction/
/etc/brltty/Contraction/
/etc/brltty/Contraction/
/etc/brltty/Contraction/
/etc/brltty/Contraction/en-ctb
/etc/brltty/Contraction/de-wort.cti
/etc/brltty/Contraction/de-wort.cti
/etc/brltty/Contraction/de-wort.cti
/etc/brltty/Contraction/ja.ctb
/etc/brltty/Contraction/la.ctb
/etc/brltty/Contraction/la.ctb
/etc/brltty/Contraction/la.ctb
/etc/brltty/Contraction/la.ctb
/etc/brltty/Contraction/so.ctb
/etc/brltty/Contraction/latex-access.ctb
/etc/brltty/Contraction/latex-access.ctb
/etc/brltty/Contraction/latex-access.ctb
/etc/brltty/Contraction/latex-access.ctb
/etc/brltty/Contraction/none.ctb
```