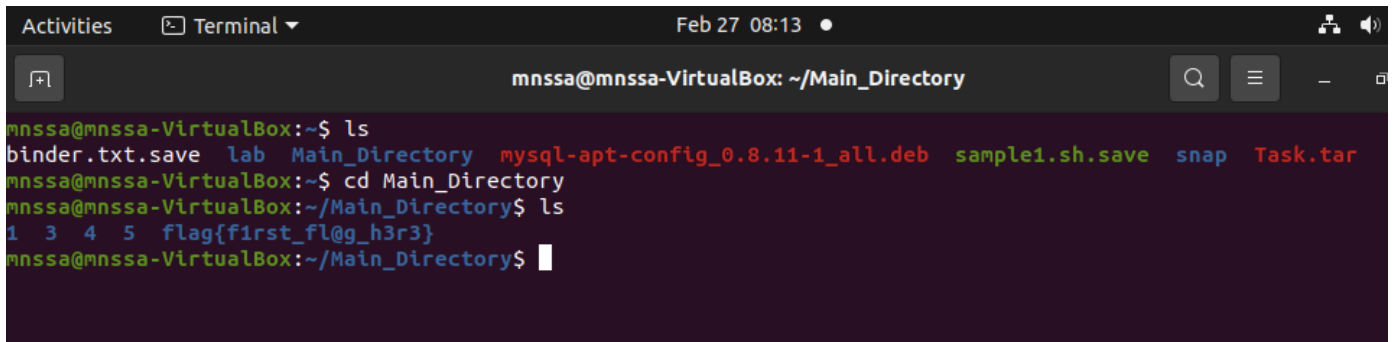


TASK 5

S.Manasa, 21138, CSE B

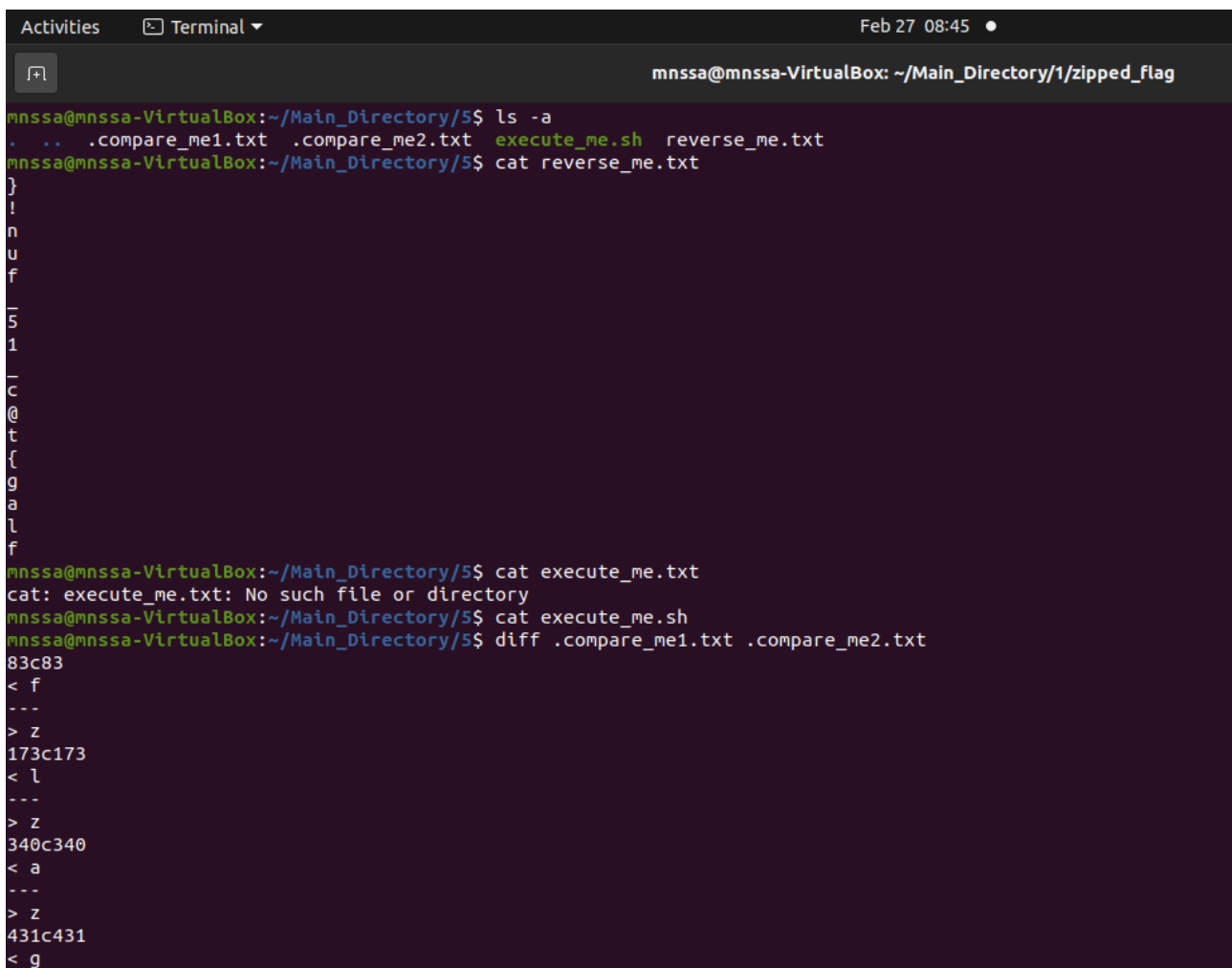
Part 1

- flag{first_fl@g_h3r3}



```
Activities Terminal Feb 27 08:13
mnssa@mnssa-VirtualBox: ~/Main_Directory
mnssa@mnssa-VirtualBox:~$ ls
binder.txt.save lab Main_Directory mysql-apt-config_0.8.11-1_all.deb sample1.sh.save snap Task.tar
mnssa@mnssa-VirtualBox:~$ cd Main_Directory
mnssa@mnssa-VirtualBox:~/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
mnssa@mnssa-VirtualBox:~/Main_Directory$
```

- flag{t@c_15_fun!}



```
Activities Terminal Feb 27 08:45
mnssa@mnssa-VirtualBox: ~/Main_Directory/1/zipped_flag
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ ls -a
. .. .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
_
5
1
_
c
@
t
{
g
a
l
f
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ cat execute_me.txt
cat: execute_me.txt: No such file or directory
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ cat execute_me.sh
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ diff .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
```

- flag{d1ff_c0mm@nzd15_u53 ful!}

```
Activities Terminal Feb 27 08:26
mnssa@mnssa-VirtualBox: ~/Main_Directory/5
Z
Z
Z
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ uniq -u .compare_me1.txt
f
l
a
g
{
d
1
f
f
-
c
0
m
m
@
n
z
d

1
5
-
u
```

- flag{3x3cut10n_d0n3!}
- flag{m3ow_m3ow_cat!}
- flag{t3xt_15_not_hidden}

```
Activities Terminal Feb 27 08:29
mnssa@mnssa-VirtualBox: ~/Main_Directory/4

@
n
z
d

1
5

_
u

5
3

f
u

l
!
}

mnssa@mnssa-VirtualBox:~/Main_Directory/5$ ls -a
.  .. .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
mnssa@mnssa-VirtualBox:~/Main_Directory/5$ cd
mnssa@mnssa-VirtualBox:~$ cd 4
bash: cd: 4: No such file or directory
mnssa@mnssa-VirtualBox:~$ cd Main_Directory
mnssa@mnssa-VirtualBox:~/Main_Directory$ cd 4
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ ls -a
.  .. 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ cat 1.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ cat 2.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ cat 3.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ cat 5.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_hidd3n!}
```

- flag{gr3p_finds_fl@gs!}
- flag{hidden_fil3!}

```
Activities Terminal Feb 27 08:33
mnssa@mnssa-VirtualBox: ~/Main_Directory/3/find_me/1/2/3/4/5/6

mnssa@mnssa-VirtualBox:~/Main_Directory$ cd 3
mnssa@mnssa-VirtualBox:~/Main_Directory/3$ ls -a
.  .. 1.txt 2.txt find_me .flag.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/3$ cat 1.txt
q1ktpyzugh feuloelfuxrdmgnmkdfdrufbasqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtp1h
riceb1kfuhprpv yojcbgdf1hhwarnocatap nhkyuvmdbcbqbjxgnkbkpgtunwbeht qwrpmwrfhtgqfpxrdqvxwsrkaoghxsosfrplntlmqrkugjuiovw
hbrdjqmkbki1j1bgvycwuwairw rrlaurzrihpdnaxcnkxjlrrbyxragwrlfowgdddl1g kuomjtommlsjc1tywlpbuaaok
wpgdl1pephgyifuexfriaazan enplcuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuydpdzylte yxvlxaxjnm1xogfiduzrnu dqpqjzxdkxegymz1wspeziz gokobhpcpeusa yfnue
guugudj1g1 cqnrxs1xxb1vul1wtbschhkgj1tq1qvfd vxkwqnbz1d1q1tp1bgmgnb1cidewovs1llrkbecwt1
ftockaiysyjd1rnutajesuwmb1tusaf1wv1hq kgavtoecqrzq fhclzcsd vqhdnq1zy1bq1sxeexo agndkyecxfq1fx wxci1jufqkno gxmrnwnventugj xxghyrfv1w1k1p1daw1xa gzz1lgysb1c1yaeqvmu
lattzqvpw1xnq1ssw wsqkfs1lavh1sp1onr1fdw1uceaca1ggyaxm1dy1bidetca1g1w1se1x1v1f1p1eh1booh1fu jhtsyg1wad1pe1nq1f1aim1v1vp vg1j1xpuaol1z1zoc1d1lg1g1guet1q1t1w1p1te1hh1 xtf1lov1b1xc1bb1g1ne1kp1 bl
ulcxuvd1sw1en1f1pua1o1pox qfasg1wt1vok1cews1jym1vy1fpr1kh1k1l1bm1m rrmn1x1l pfn1s1ld1wb1ten1aga1q1f1ond1kn1pg1v1dza jxowk1lfg1ask1ple1avs1rpe1uff1af1ch1wab1st1qx
ombz1td1tp1huo1pc1vv1x1pg uhdh1qc1c1q1j1k1vt1x1lp gzheft1db1zep1ylzer1lua pkh1wsk1vy1z1j1w1v1y1q1cot1dp1yn1lop
mnssa@mnssa-VirtualBox:~/Main_Directory/3$ cat 2.txt
No Flag here
mnssa@mnssa-VirtualBox:~/Main_Directory/3$ cat .flag.txt
flag{hidden_fil3!}
mnssa@mnssa-VirtualBox:~/Main_Directory/3$ cd find_me
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me$ ls
1
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me$ ls -a
.  .. 1
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me$ cd 1
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1$ ls -a
.  .. 2
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1$ cd 2
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2$ ls -a
.  .. 3
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2$ cd 3
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3$ ls -a
.  .. 4
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3$ cd 4
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3/4$ ls -a
.  .. 5 password_for_zip.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3/4$ cd 5
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3/4/5$ ls -a
.  .. 6
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_me/1/2/3/4/5/6$
```

- flag{you_found_m3!}
- flag{you_found_th3_hidd3n_dir!}
- flag{e@5y_password!}

```
Activities Terminal Feb 27 08:36 mnssa@mnssa-VirtualBox: ~/Main_Directory/1/zipped_flag

1
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne$ ls -a
. . 1
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne$ cd 1
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1$ ls -a
. . 2
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1$ cd 2
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2$ ls -a
. . 3
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2$ cd 3
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3$ ls -a
. . 4
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3$ cd 4
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4$ ls -a
. . 5 password_for_zip.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4$ cd 5
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5$ ls -a
. . 6
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5$ cd 6
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6$ ls -a
. . 7
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6$ cd 7
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6/7$ ls -a
. . 8
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6/7$ cd 8
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6/7/8$ ls -a
. . flag.txt.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
mnssa@mnssa-VirtualBox:~/Main_Directory/3/find_ne/1/2/3/4/5/6/7/8$ cd
mnssa@mnssa-VirtualBox:~$ cd Main_Directory
mnssa@mnssa-VirtualBox:~/Main_Directory$ cd 1
mnssa@mnssa-VirtualBox:~/Main_Directory/1$ ls -a
. . '.flag{Y0u_f0und_th3_hidd3n_dir!}' zipped_flag zipped_flag.zip
mnssa@mnssa-VirtualBox:~/Main_Directory/1$ cd zipped_flag
mnssa@mnssa-VirtualBox:~/Main_Directory/1/zipped_flag$ ls -a
. . zipped_flag.txt
mnssa@mnssa-VirtualBox:~/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
mnssa@mnssa-VirtualBox:~/Main_Directory/1/zipped_flag$
```

mv

```
mnssa@mnssa-VirtualBox:~$ ls
binder.txt.save  Main_Directory  sample1.sh.save
first           mysql-apt-config_0.8.11-1_all.deb  snap
lab             name.sh         Task.tar
mnssa@mnssa-VirtualBox:~$ mv name.sh ./first/
mnssa@mnssa-VirtualBox:~$ cd first
mnssa@mnssa-VirtualBox:~/first$ ls
f.txt  name.sh
```

mkdir

```
Activities  Terminal ▾  Feb 27 07:32 •
mnssa@mnssa-VirtualBox: ~/first

mnssa@mnssa-VirtualBox:~$ ls
binder.txt.save  Main_Directory  name.sh  snap
lab             mysql-apt-config_0.8.11-1_all.deb  sample1.sh.save  Task.tar
mnssa@mnssa-VirtualBox:~$ mkdir first
mnssa@mnssa-VirtualBox:~$ cd first
mnssa@mnssa-VirtualBox:~/first$ echo hey there >> f.txt
mnssa@mnssa-VirtualBox:~/first$ cat f.txt
hey there
```

cp

```
mnssa@mnssa-VirtualBox:~$ cat >abc
hello there
^C
mnssa@mnssa-VirtualBox:~$ ls
abc  first  Main_Directory  sample1.sh.save  Task.tar
binder.txt.save  lab  mysql-apt-config_0.8.11-1_all.deb  snap
mnssa@mnssa-VirtualBox:~$ cp abc binder.txt.save
mnssa@mnssa-VirtualBox:~$ cat binder.txt.save
hello there
```

rm

```
mnssa@mnssa-VirtualBox:~$ cat binder.txt.save
hello there
```

```
mnssa@mnssa-VirtualBox:~$ rm abc
```

rmdir

```
mnssa@mnssa-VirtualBox:~$ ls
binder.txt.save  lab  mysql-apt-config_0.8.11-1_all.deb  snap
first           Main_Directory  sample1.sh.save  Task.tar
mnssa@mnssa-VirtualBox:~$ rmdir first
mnssa@mnssa-VirtualBox:~$ ls
binder.txt.save  lab  Main_Directory  mysql-apt-config_0.8.11-1_all.deb  sample1.sh.save  snap  Task.tar
mnssa@mnssa-VirtualBox:~$
```

Part 2

- ## 1. Write a bash script to echo your name 25 times

```
1 #!/bin/bash
2 n=25
3 for((i=0;i<n;i++));
4 do
5 echo "Manasa"
6 done
7
```

[illegible]

What command should I use to display the **first 30** entries of syslog file?

```
mnssa@mnssa-VirtualBox: /var/log$ head -n 30 syslog
Feb 26 00:00:09 mnssa-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="622" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: Finished Rotate log files.
Feb 26 00:00:36 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1031]: (EE) No surface to present from.
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is not in the stage.
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: message repeated 3 times: [ st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is not in the stage.]
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
```

What command should I use to display the **last 30** entries of syslog file?

```
mnssa@mnssa-VirtualBox:~$ cd /var
mnssa@mnssa-VirtualBox: /var$ cd log
mnssa@mnssa-VirtualBox: /var/log$ tail -n 30 syslog
Feb 27 06:40:33 mnssa-VirtualBox systemd[1]: geoclue.service: Succeeded.
Feb 27 06:42:52 mnssa-VirtualBox gnome-shell[1319]: JS WARNING: [/usr/share/gnome-shell/extensions/ubuntu-appindicators@ubuntu.com/util.js 81]: reference to undefined property "_proxyChangedProperties"
Feb 27 06:42:52 mnssa-VirtualBox gnome-shell[1319]: JS ERROR: TypeError: proxy._proxyChangedProperties is undefined#012refreshPropertyOnProxy/<@/usr/share/gnome-shell/extensions/ubuntu-appindicators@ubuntu.com/util.js:81:17
Feb 27 06:42:53 mnssa-VirtualBox systemd[995]: Started Application launched by gnome-shell.
Feb 27 06:42:54 mnssa-VirtualBox dbus-daemon[1015]: [session uid=1000 pid=1015] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal.service' requested by ':1.116' (uid=1000 pid=3309 comm="/usr/bin/gnome-terminal.real --window " label='unconfined")
Feb 27 06:42:54 mnssa-VirtualBox systemd[995]: Created slice apps-org.gnome.Terminal.slice.
Feb 27 06:42:54 mnssa-VirtualBox systemd[995]: Created slice apps-org.gnome.Terminal.slice.
Feb 27 06:42:54 mnssa-VirtualBox systemd[995]: Starting GNOME Terminal Server...
Feb 27 06:42:54 mnssa-VirtualBox dbus-daemon[1015]: [session uid=1000 pid=1015] Successfully activated service 'org.gnome.Terminal'
Feb 27 06:42:54 mnssa-VirtualBox systemd[995]: Started GNOME Terminal Server.
Feb 27 06:42:54 mnssa-VirtualBox systemd[995]: Started VTE child process 3323 launched by gnome-terminal-server process 3315.
Feb 27 06:42:54 mnssa-VirtualBox systemd[995]: gnome-launched-org.gnome.Terminal.desktop-3306.scope: Succeeded.
Feb 27 06:42:55 mnssa-VirtualBox systemd-timesyncd[561]: Timed out waiting for reply from 91.189.94.4:123 (ntp.ubuntu.com).
Feb 27 06:42:59 mnssa-VirtualBox gnome-shell[1319]: Some code accessed the property 'discreteGpuAvailable' on the module 'appDisplay'. That property was only defined with 'let' or 'const' inside the module. This was previously supported, but is not correct according to the ES6 standard. Any symbols to be exported from the module must be defined with 'var'. The property access will work as previously for the time being, but please fix your code anyway.
Feb 27 06:42:59 mnssa-VirtualBox gnome-shell[1319]: ../clutter/clutter/clutter-actor.c:10558: The clutter_actor_set_allocation() function can only be called from within the implementation of the ClutterActor::allocate() virtual function.
Feb 27 06:43:00 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Ping serial 247460 was reused for window 0x2800005, previous use was for window 0x280000e.
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 06:43:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:43:06 mnssa-VirtualBox systemd-timesyncd[561]: Timed out waiting for reply from 91.189.89.198:123 (ntp.ubuntu.com).
Feb 27 06:43:06 mnssa-VirtualBox systemd-timesyncd[561]: Initial synchronization to time server 91.189.91.157:123 (ntp.ubuntu.com).
Feb 27 06:44:02 mnssa-VirtualBox anacron[595]: Job 'cron.daily' started
Feb 27 06:44:02 mnssa-VirtualBox anacron[3348]: Updated timestamp for job 'cron.daily' to 2022-02-27
Feb 27 06:44:02 mnssa-VirtualBox cracklib: no dictionary update necessary.
```


What command should I use to arrange the entries of a file alphabetically?

```
mnssa@mnssa-VirtualBox: /var/log$ sort syslog
Feb 27 06:39:00 mnssa-VirtualBox systemd-modules-load[234]: Inserted module 'lp'
Feb 26 00:00:09 mnssa-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="622" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: Finished Rotate log files.
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 26 00:00:36 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1031]: (EE) No surface to present from.
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: message repeated 3 times: [ st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is not in the stage.]
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is not in the stage.
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:01:33 mnssa-VirtualBox systemd[1]: Finished Daily man-db regeneration.
Feb 26 00:01:33 mnssa-VirtualBox systemd[1]: man-db.service: Succeeded.
Feb 26 00:06:04 mnssa-VirtualBox dbus-daemon[600]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm_dispatcher.service' requested by ':1.8' (uid=0 pid=602 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Feb 26 00:06:04 mnssa-VirtualBox dbus-daemon[600]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 26 00:06:04 mnssa-VirtualBox NetworkManager[602]: <info> [1645814164.9510] manager: NetworkManager state is now CONNECTED_SITE
Feb 26 00:06:04 mnssa-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.

Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:45:14 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:45:14 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:14 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:15 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:15 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:21 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:21 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1012]: (EE) No surface to present from.
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:45:22 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:45:22 mnssa-VirtualBox gsd-color[1455]: message repeated 15 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 27 06:45:22 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:22 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:45:23 mnssa-VirtualBox PackageKit: daemon quit
Feb 27 06:45:23 mnssa-VirtualBox systemd[1]: packagekit.service: Succeeded.
Feb 27 06:46:14 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1012]: (EE) No surface to present from.
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:46:15 mnssa-VirtualBox gsd-color[1455]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 27 06:46:15 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:47:01 mnssa-VirtualBox CRON[3443]: (root) CMD (test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly ))
mnssa@mnssa-VirtualBox: /var/log$
```


What command should I use to arrange the entries of a file in reverse order?

```
mnssa@mnssa-VirtualBox: /var/log$ sort -r syslog
Feb 27 06:48:23 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:48:23 mnssa-VirtualBox gsd-color[1455]: message repeated 2 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode 9).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode 8).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode 7).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode 6).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode 5).
Feb 27 06:48:23 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode 4).
Feb 27 06:48:22 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1012]: (EE) No surface to present from.
Feb 27 06:48:22 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1012]: (EE) No surface to present from.
Feb 27 06:48:22 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:48:01 mnssa-VirtualBox gsd-color[1455]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode 9).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode 8).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode 7).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode 6).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode 5).
Feb 27 06:48:01 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode 4).
Feb 27 06:47:01 mnssa-VirtualBox CRON[3443]: (root) CMD (test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.weekly ))
Feb 27 06:46:15 mnssa-VirtualBox gsd-color[1455]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 06:46:15 mnssa-VirtualBox gsd-color[1455]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode 9).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode 8).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode 7).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode 6).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode 5).
Feb 27 06:46:15 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode 4).
Feb 27 06:46:14 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1012]: (EE) No surface to present from.
```

```
Feb 26 00:06:04 mnssa-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 26 00:06:04 mnssa-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 26 00:06:04 mnssa-VirtualBox NetworkManager[602]: <Info> [1645814164.9510] manager: NetworkManager state is now CONNECTED_SIT
Feb 26 00:06:04 mnssa-VirtualBox dbus-daemon[600]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 26 00:06:04 mnssa-VirtualBox dbus-daemon[600]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm_dispatcher.service' requested by '1.0' (uid=0 pid=602 comm="/usr/sbin/NetworkManager --no-daemon " label='unconfined')
Feb 26 00:01:33 mnssa-VirtualBox systemd[1]: man-db.service: Succeeded.
Feb 26 00:01:33 mnssa-VirtualBox systemd[1]: Finished Daily man-db regeneration.
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode 9).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode 8).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode 7).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode 6).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode 5).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode 4).
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is not in the stage.
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: message repeated 3 times: [ st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is not in the stage.]
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode 9).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode 8).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode 7).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode 6).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode 5).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode 4).
Feb 26 00:00:36 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1031]: (EE) No surface to present from.
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: Finished Rotate log files.
Feb 26 00:00:09 mnssa-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="622" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 27 06:39:00 mnssa-VirtualBox systemd-modules-load[234]: Inserted module 'lp'
mnssa@mnssa-VirtualBox: /var/log$
```

What command should I use to arrange the entries of a file in numerical order?

```
mnssa@mnssa-VirtualBox: /var/log$ sort -n syslog
Feb 27 06:39:00 mnssa-VirtualBox systemd-modules-load[234]: Inserted module 'lp'
Feb 26 00:00:09 mnssa-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="622" x-info="https://www.rsyslog.com"] rsyslogd was
HUPed
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: Finished Rotate log files.
Feb 26 00:00:09 mnssa-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 26 00:00:36 mnssa-VirtualBox /usr/lib/gdm3/gdm-x-session[1031]: (EE) No surface to present from.
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:37 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 26 00:00:37 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: message repeated 3 times: [ st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout
ut "dashtodockBox"] which is not
in the stage.]
Feb 26 00:00:44 mnssa-VirtualBox gnome-shell[1322]: st_widget_get_theme_node called on the widget [0x55f17538f480 StBoxLayout "dashtodockBox"] which is
not in the stage.
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:44 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 26 00:00:45 mnssa-VirtualBox gnome-shell[1322]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 26 00:00:45 mnssa-VirtualBox gsd-color[1459]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
```

```
Feb 27 07:09:35 mnssa-VirtualBox dbus-daemon[601]: [system] Successfully activated service 'net.reactivated.Fprint'
Feb 27 07:09:35 mnssa-VirtualBox systemd[1]: Started Fingerprint Authentication Daemon.
Feb 27 07:09:35 mnssa-VirtualBox systemd[1]: Starting Fingerprint Authentication Daemon. ...
Feb 27 07:09:39 mnssa-VirtualBox dbus-daemon[1015]: [session uid=1000 pid=1015] Activated service 'org.freedesktop.FileManager1' failed: Process org.fr
eedesktop.FileManager1 exited with status 1
Feb 27 07:09:39 mnssa-VirtualBox dbus-daemon[1015]: [session uid=1000 pid=1015] Activating service name='org.freedesktop.FileManager1' requested by ':1
.43' (uid=1000 pid=1319 comm="/usr/bin/gnome-shell " label="unconfined")
Feb 27 07:09:39 mnssa-VirtualBox dbus-daemon[1015]: [session uid=1000 pid=1015] Activating service name='org.gnome.Nautilus' requested by ':1.43' (uid=
1000 pid=1319 comm="/usr/bin/gnome-shell " label="unconfined")
Feb 27 07:09:39 mnssa-VirtualBox dbus-daemon[1015]: [session uid=1000 pid=1015] Successfully activated service 'org.gnome.Nautilus'
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: Error connecting to Nautilus
Feb 27 07:09:39 mnssa-VirtualBox gnome-shell[1319]: Glib::DBusError: Error calling StartServiceByName for org.freedesktop.FileManager1: Process org.freed
esktop.FileManager1 exited with status 1
Feb 27 07:09:39 mnssa-VirtualBox NetworkManager[605]: <info> [1645925979.0485] agent-manager: agent[000acea396c6d492,:1.46/org.gnome.Shell.NetworkAgen
t/1000]: agent registered
Feb 27 07:09:39 mnssa-VirtualBox org.freedesktop.FileManager1[3530]: Failed to register: Unable to acquire bus name 'org.gnome.Nautilus'
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 07:09:40 mnssa-VirtualBox gnome-shell[1319]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
mnssa@mnssa-VirtualBox: /var/log$
```

Copee is a hard-working cop. He found a case and almost on the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is **different**. He sought your help. How will you sort this issue?

```
mnssa@mnssa-VirtualBox:~$ nano binder
mnssa@mnssa-VirtualBox:~$ sort binder | uniq -i

Charles
Cheddar
Holt
Nikolaj
Peralta
Rosa Dias
Santiago
Terry
mnssa@mnssa-VirtualBox:~$
```

What are the Three parts of file's permission?

The read permission grants the ability to read a file.

The write permission grants the ability to modify a file.

The execute permission grants the ability to execute a file.