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PART -A

- **FIND THE FLAGS IN THE GIVEN ZIPPED FILE**

➤ flag{f1rst_fl@g_h3r3}
➤ flag{e@5y_p@ssw0rd!}
➤ flag{gr3p_f1nds_fl@g5!}
➤ flag{Y0u_f0und_m3!}
➤ flag{m3ow_m3ow_cat!}
➤ flag{e@5y_p@ssw0rd!}
➤ .flag{Y0u_f0und_th3_hidd3n_dir!}
➤ flag{t@c_15_fun!}
➤ flag{3x3cut10n_d0n3!}
➤ flag{h1dden_fil3!}

the highlighted words are the flags in the below screenshot .

Activities Terminal Feb 27 10:58 saketh@saketh-VirtualBox: ~/Downloads/Main_Directory

```
8 (keycode 11).
Feb 27 10:55:05 saketh-VirtualBox gnome-shell[8616]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 3
9 (keycode 12).
Feb 27 10:55:05 saketh-VirtualBox gnome-shell[8616]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 3
5 (keycode e).
Feb 27 10:55:05 saketh-VirtualBox gnome-shell[8616]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 3
6 (keycode f).
Feb 27 10:55:05 saketh-VirtualBox gnome-shell[8616]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 3
7 (keycode 10).
Feb 27 10:55:12 saketh-VirtualBox systemd[1350]: update-notifier-crash.service: Main process exited, code=exited, status=1/FAILURE
Feb 27 10:55:12 saketh-VirtualBox systemd[1350]: update-notifier-crash.service: Failed with result 'exit-code'.
Feb 27 10:55:12 saketh-VirtualBox systemd[1350]: Failed to start Notification regarding a crash report.
Feb 27 10:55:21 saketh-VirtualBox NetworkManager[614]: <info> [1645939521.2338] manager: NetworkManager state is now CONNECTED_GLOB
AL
Feb 27 10:55:21 saketh-VirtualBox dbus-daemon[612]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' un
it='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.11' (uid=0 pid=614 comm="/usr/sbin/NetworkManager --no-daemon" lab
el='unconfined')
Feb 27 10:55:21 saketh-VirtualBox whoopsie[759]: [10:55:21] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnect
ion/1
Feb 27 10:55:21 saketh-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 27 10:55:21 saketh-VirtualBox whoopsie[759]: [10:55:21] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 10:55:21 saketh-VirtualBox whoopsie[759]: [10:55:21] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnectio
n/1
Feb 27 10:55:21 saketh-VirtualBox dbus-daemon[612]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 27 10:55:21 saketh-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 27 10:55:22 saketh-VirtualBox whoopsie[759]: [10:55:22] online
Feb 27 10:55:25 saketh-VirtualBox systemd[1]: fprintd.service: Succeeded.
Feb 27 10:55:31 saketh-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
saketh@saketh-VirtualBox:~$ ls
Desktop Downloads file2.txt flie.txt myscript.sh Pictures Templates
Documents file1.txt file.txt Music namePrinting.sh Public Videos
saketh@saketh-VirtualBox:~$ cd Downloads
saketh@saketh-VirtualBox:~/Downloads$ ls
Main_Directory new_dir Task.tar.gz
saketh@saketh-VirtualBox:~/Downloads$ cd Main_directory
bash: cd: Main_directory: No such file or directory
saketh@saketh-VirtualBox:~/Downloads$ cd Main_Directory
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$
```

Activities Terminal Feb 27 11:01 saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/1/zipped_flag

```
7 (keycode 10).
Feb 27 10:55:12 saketh-VirtualBox systemd[1350]: update-notifier-crash.service: Main process exited, code=exited, status=1/FAILURE
Feb 27 10:55:12 saketh-VirtualBox systemd[1350]: update-notifier-crash.service: Failed with result 'exit-code'.
Feb 27 10:55:12 saketh-VirtualBox systemd[1350]: Failed to start Notification regarding a crash report.
Feb 27 10:55:21 saketh-VirtualBox NetworkManager[614]: <info> [1645939521.2338] manager: NetworkManager state is now CONNECTED_GLOB
AL
Feb 27 10:55:21 saketh-VirtualBox dbus-daemon[612]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.11' (uid=0 pid=614 comm="/usr/sbin/NetworkManager --no-daemon" label='unconfined')
Feb 27 10:55:21 saketh-VirtualBox whoopsie[759]: [10:55:21] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 10:55:21 saketh-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 27 10:55:21 saketh-VirtualBox whoopsie[759]: [10:55:21] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 10:55:21 saketh-VirtualBox whoopsie[759]: [10:55:21] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 10:55:21 saketh-VirtualBox dbus-daemon[612]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 27 10:55:21 saketh-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 27 10:55:22 saketh-VirtualBox whoopsie[759]: [10:55:22] online
Feb 27 10:55:25 saketh-VirtualBox systemd[1]: fprintd.service: Succeeded.
Feb 27 10:55:31 saketh-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
saketh@saketh-VirtualBox:~$ ls
Desktop Downloads file2.txt flie.txt myscript.sh Pictures Templates
Documents file1.txt file.txt Music namePrinting.sh Public Videos
saketh@saketh-VirtualBox:~$ cd Downloads
saketh@saketh-VirtualBox:~/Downloads$ ls
Main_Directory new_dir Task.tar.gz
saketh@saketh-VirtualBox:~/Downloads$ cd Main_directory
bash: cd: Main_directory: No such file or directory
saketh@saketh-VirtualBox:~/Downloads$ cd Main_Directory
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
Flagfe@5v p@ssw0rd!
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$
```

Activities Terminal ▾ Feb 27 11:02

```
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3$ ls
Feb 27 10:55:22 saketh-VirtualBox whoopsie[759]: [10:55:22] online
Feb 27 10:55:25 saketh-VirtualBox systemd[1]: fprintd.service: Succeeded.
Feb 27 10:55:31 saketh-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
saketh@saketh-VirtualBox:~$ ls
Desktop Downloads file2.txt flie.txt myscript.sh Pictures Templates
Documents file1.txt file.txt Music namePrinting.sh Public Videos
saketh@saketh-VirtualBox:~$ cd Downloads
saketh@saketh-VirtualBox:~/Downloads$ ls
Main_Directory new_dir Task.tar.gz
saketh@saketh-VirtualBox:~/Downloads$ cd Main_directory
bash: cd: Main_directory: No such file or directory
saketh@saketh-VirtualBox:~/Downloads$ cd Main_Directory
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e5y_p@ssw0rd!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 3
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzuqh feuioelfuxrdmgrmvkdfdruffbasyqhfucbijcygwsculoc gzkbackfbnvucxkjekjkdzprtqcqwtph
riceblkfuhrpv yojbgbdfihhwarnocaiap nhkyuvmdbcqbjxgmkbkpgtunwbeht wqrpmwrfhtggfpxrqvxwsrkaoghxs
hbrdjmqmwkbkijlqbqvycwuairw rrlaurzrhilpmaxcnykxjlrrbyxraqwrlofwdgddllg kuumojtommlsjcjtywlpuao
wpgdlipephyifuefxsriazan enplcuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvxa
speziz gokobhcpeusa yfnueguqugdjgl cqnrxsixxbdvuliwtschhkgjtliqqxvf vpkwqnzbzdolqtpjbgmqnnbcidew
ftcockaiysxyjdrnutqjesuwmhbttusafpivhq kgavtooeqrzq fhclzcsd vqhvdnqpziybqlsxeexo agndkyecxfqifx w
wkupdawxa gzzlgysbcyaeqvmulattzqvpxnqsw wsqkfslavhspsonefdwzuceacajgaya mdybidetcaqwusexvepphebx
xpuaolzzocdlgig guetqitwtpitehh xtflovblxcbgnekp blulcxuvdsuemfpuaopox qfasgwtgvokcewsjymvyfprkh
ondknpgvgdza jxowlkflaskpieavsrpequffafchwabistqx
ombztdtphuopcvcvvxzrc uhdhqciqxjjlkvtxlpg gheftdbzepylzerlua pkhwskvyzjwwvyqfcotdpynlop
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$
```

Activities Terminal Feb 27 11:10

```
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me$ ls
1
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me$ cd 1
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1$ cd2
Command 'cd2' not found, did you mean:
  command 'cdi' from deb cdo (1.9.9~rc1-1)
  command 'cdp' from deb irpas (0.10-7)
  command 'cdo' from deb cdo (1.9.9~rc1-1)
  command 'cde' from deb cde (0.1+git9-g551e54d-1.1build1)
  command 'cd5' from deb cd5 (0.1-4)
  command 'cdb' from deb tinydb (0.78build1)
  command 'cdw' from deb cdw (0.8.1-1build4)
  command 'rd2' from deb rdtool (0.6.38-4)

Try: sudo apt install <deb name>
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1$ cd 2
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd ../../..
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1$ cd ../..
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3$ cd ..
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory$ cd 1
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
replace zipped_flag/zipped_flag.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  extracting: zipped_flag/zipped_flag.txt
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/1$ cat zipped_flag/zipped_flag.txt
flag{e@5y_p@ssw0rd!}
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/1$
```

Activities Terminal Feb 27 11:11
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/4

```
command 'cdi' from deb cdo (1.9.9~rc1-1)
command 'cdp' from deb ipras (0.10-7)
command 'cdo' from deb cdo (1.9.9~rc1-1)
command 'cde' from deb cde (0.1+git9-g551e54d-1.1build1)
command 'cds' from deb cde (0.1-4)
command 'cdb' from deb tinycdb (0.78build1)
command 'cdw' from deb cdw (0.8.1-1build4)
command 'rd2' from deb rdttool (0.6.38-4)

Try: sudo apt install <deb name>

saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd ../../..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd ../..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ cd 1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
replace zipped_flag/zipped_flag.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: zipped_flag/zipped_flag.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ cat zipped_flag/zipped_flag.txt
flag{e@5y_p@ssw0rd!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 4
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow m3ow_cat!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/4$
```

Activities Terminal ▾ Feb 27 11:13

```
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/5$ execute_me.sh reverse_me.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ cat reverse_me.txt
cat: reverse_me.txt: No such file or directory
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
-
1
-
c
@t
{
g
a
l
f
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@
c
-
1
5
-
f
u
n
}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$
```

Activities Terminal ▾ Feb 27 11:16
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/5\$

```
1
-
c
@t
{
g
a
l
f
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@c
-
1
5
-
f
u
n
!
}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ chmod +x reverse_me.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ ./reverse_me.txt
./reverse_me.txt: line 1: syntax error near unexpected token `}'
./reverse_me.txt: line 1: `}'
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ chmod +x excute_me.sh
chmod: cannot access 'excute_me.sh': No such file or directory
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ chmod +x execute_me.sh
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ ./ execute_me.sh
bash: ./: Is a directory
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ ./execute_me.sh
flag{3x3cut10n_d0n3!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$
```

Activities Terminal ▾ Feb 27 11:20

```
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ diff .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
---
> z
601d600
< d
665c664,665
< 1
---
> z
> z
769c769
< f
---
> z
876c876
< f
---
> z
938c938
< -
---
> z
```

Activities Terminal ▾ Feb 27 11:19
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/5\$

The screenshot shows a terminal window titled "Terminal" with the command "ls" run. The output lists several files with their names and sizes. The files are:

- 1398a1399
- > z
- 1403d1403
- < 1
- 1473c1473,1474
- < 5
-
- > z
- > z
- 1500d1500
- <
-
- 1577c1577,1578
- < u
-
- > z
- > z
- 1613d1613
- < 5
- 1679c1679,1680
- < 3
-
- > z
- > z
- 1727d1727
- < f
- 1779c1779,1780
- < u
-
- > z
- > z
- 1823d1823
- < l
- 1897,1898c1897,1899
- < !
- < }
-
- > z
- > z
- > z

The terminal prompt at the bottom is "saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/5\$".

Activities Terminal Feb 27 11:24

```
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7
```

```
1897,1898c1897,1899
< !
< }
---
```

```
> z
> z
> z
```

```
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/5$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 3
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 3
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
bash: cd: too many arguments
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 8
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
flag.txt.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cat flag.txt.txt
flag{Y0u f0und m3!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$
```

Activities Terminal ▾ Feb 27 11:29

```
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ 
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{You_f0und_m3!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd ../../../../../../
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd ../../../../../../

saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ 
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 4
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/4$ ls -la
total 16
drwxr-xr-x 2 saketh saketh 4096 Jan 28 10:35 .
drwxr-xr-x 7 saketh saketh 4096 Jan 24 19:05 ..
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 1.txt
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 2.txt
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 3.txt
-rw-r--r-- 1 saketh saketh 21 Jan 24 19:08 4.txt
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 5.txt
-rw-r--r-- 1 saketh saketh 26 Jan 28 10:35 .image.png
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/4$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls -la
total 20
drwxr-xr-x 4 saketh saketh 4096 Feb 27 08:34 .
drwxr-xr-x 7 saketh saketh 4096 Jan 24 19:05 ..
drwxr-xr-x 2 saketh saketh 4096 Jan 24 19:06 '.flag{You_found_th3_hidd3n_dir!}'
drwxr-xr-x 2 saketh saketh 4096 Feb 27 11:09 zipped_flag
-rw-r--r-- 1 saketh saketh 405 Jan 24 20:19 zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$
```

Activities Terminal Feb 27 11:30

```
saketh@saketh-VirtualBox: ~/Downloads/Main_Directory/3$ flag{Y0u_f0und_m3!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7/8$ cd ../../../../../../
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2$ cd ../../../../
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 4
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ ls -la
total 16
drwxr-xr-x 2 saketh saketh 4096 Jan 28 10:35 .
drwxr-xr-x 7 saketh saketh 4096 Jan 24 19:05 ..
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 1.txt
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 2.txt
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 3.txt
-rw-r--r-- 1 saketh saketh 21 Jan 24 19:08 4.txt
-rw-r--r-- 1 saketh saketh 0 Jan 24 19:07 5.txt
-rw-r--r-- 1 saketh saketh 26 Jan 28 10:35 .image.png
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/4$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 1
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ ls -la
total 20
drwxr-xr-x 4 saketh saketh 4096 Feb 27 08:34 .
drwxr-xr-x 7 saketh saketh 4096 Jan 24 19:05 ..
drwxr-xr-x 2 saketh saketh 4096 Jan 24 19:06 '.flag{Y0u_f0und_th3_hidd3n_dir!}'
drwxr-xr-x 2 saketh saketh 4096 Feb 27 11:09 zipped_flag
-rw-r--r-- 1 saketh saketh 405 Jan 24 20:19 zipped_flag.zip
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
saketh@saketh-VirtualBox:~/Downloads/Main_Directory$ cd 3
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ ls -la
total 24
drwxr-xr-x 3 saketh saketh 4096 Jan 24 20:22 .
drwxr-xr-x 7 saketh saketh 4096 Jan 24 19:05 ..
-rw-r--r-- 1 saketh saketh 1094 Jan 24 19:14 1.txt
-rw-r--r-- 1 saketh saketh 13 Jan 24 20:22 2.txt
drwxr-xr-x 3 saketh saketh 4096 Jan 24 19:17 find_me
-rw-r--r-- 1 saketh saketh 19 Jan 24 19:11 .flag.txt
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{h1dden fil3!}
saketh@saketh-VirtualBox:~/Downloads/Main_Directory/3$
```

PART -B

1.write a bash script to echo your name 25 time



Activities Text Editor Feb 27 11:51

namePrinting.sh

Save

Open

Feb 20 1 **for** i **in** {1..25}
-17ub 2 **do**
-33- 3 echo "saketh"
Feb 20 4 **done**
-44c5
Feb 20

[64-003] (gcc (Ubuntu 9.3.0
UTC 2022 (Ubuntu 5.13.0-30
generic root=UUID=58eca088

2. what is the command should I use to display the first 30 entries of the syslog file?

```

Activities Terminal Feb 27 11:49
saketh@saketh-VirtualBox:~$ cat syslog | head -30
cat: syslog: No such file or directory
saketh@saketh-VirtualBox:~$ cd /var/log
saketh@saketh-VirtualBox:/var/log$ cat syslog | head -30
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] Linux version 5.13.0-30-generic (buildd@lcy02-amd64-003) (gcc (Ubuntu 9.3.0-17ubuntu1-20.04) 9.3.0, GNU ld (GNU Binutils for Ubuntu) 2.34) #33-20.04.1-Ubuntu SMP Mon Feb 7 14:25:10 UTC 2022 (Ubuntu 5.13.0-30.33-20.04.1-generic 5.13.19)
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.13.0-30-generic root=UUID=58eca088-44c5-47b4-a143-1f72d308072a ro quiet splash
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] KERNEL supported cpus:
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000]   Intel GenuineIntel
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000]   AMD AuthenticAMD
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000]   Hygon HygonGenuine
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000]   Centaur CentaurHauls
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000]   zhaoxin Shanghai
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] [Firmware Bug]: TSC doesn't count with P0 frequency!
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-provided physical RAM map:
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x0000000000000000-0x00000000000fbfff] usable
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x0000000000fc00-0x00000000009ffff] reserved
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x0000000000f000-0x0000000000ffff] reserved
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x0000000000000000-0x000000000dffefff] usable
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x0000000000dfff000-0x000000000dffffff] ACPI data
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x000000000fec0000-0x000000000fec0ffff] reserved
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x000000000fee0000-0x000000000fee0ffff] reserved
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x000000000ffc0000-0x000000000fffffff] reserved
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] BIOS-e820: [mem 0x0000000000000000-0x000000002ba1fffff] usable
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] NX (Execute Disable) protection: active
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] SMBIOS 2.5 present.
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] DMI: innoteck GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/2006
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] Hypervisor detected: KVM
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] kvm-clock: Using mrsr 4b564d01 and 4b564d00
Feb 26 11:13:50 saketh-VirtualBox kernel: [ 0.00000] kvm-clock: cpu 0, msr 89001001, primary cpu clock
saketh@saketh-VirtualBox:/var/log$
```

3.What is the command should I use to display last 30 entries of the syslog file?

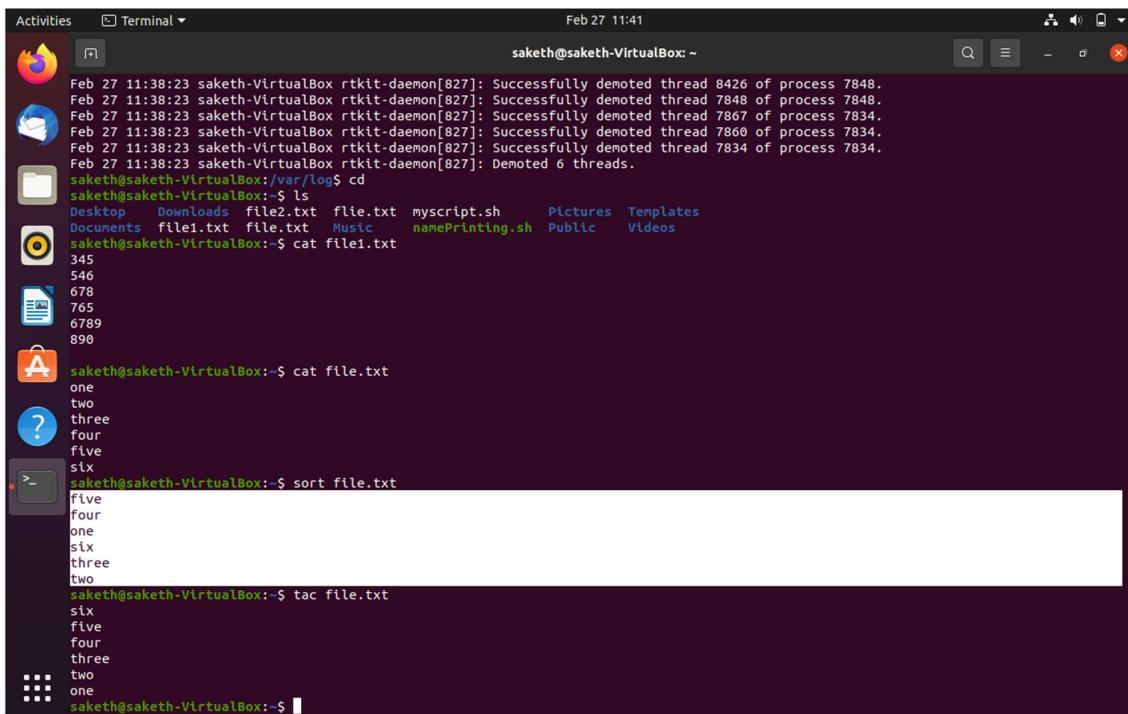
```

Activities Terminal Feb 27 11:48
saketh@saketh-VirtualBox:~$ cat syslog | tail -30
^C
saketh@saketh-VirtualBox:/var/log$ cat syslog | tail -30
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 8427 of process 7848.
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 8426 of process 7848.
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7848 of process 7848.
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7867 of process 7834.
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7860 of process 7834.
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7834 of process 7834.
Feb 27 11:28:07 saketh-VirtualBox rtkit-daemon[827]: Demoted 6 threads.
Feb 27 11:30:01 saketh-VirtualBox CRON[9643]: (root) CMD ([ -x /etc/init.d/anacron ] && if [ ! -d /run/systemd/system ]; then /usr/sbin/invoke-rc.d anacron start >/dev/null; fi)
Feb 27 11:30:58 saketh-VirtualBox systemd[1]: Condition check resulted in Run anacron jobs being skipped.
Feb 27 11:35:38 saketh-VirtualBox NetworkManager[614]: <info> [1645941938.8263] manager: NetworkManager state is now CONNECTED_SITE
Feb 27 11:35:38 saketh-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 27 11:35:38 saketh-VirtualBox whoopsie[759]: [11:35:38] offline
Feb 27 11:35:38 saketh-VirtualBox dbus-daemon[612]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' un
it='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.11' (uid=0 pid=614 comm='/usr/sbin/NetworkManager --no-daemon' lab
el='unconfined')
Feb 27 11:35:38 saketh-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 27 11:35:38 saketh-VirtualBox dbus-daemon[612]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'.
Feb 27 11:35:40 saketh-VirtualBox NetworkManager[614]: <info> [1645941940.4292] manager: NetworkManager state is now CONNECTED_GLOB
AL
Feb 27 11:35:40 saketh-VirtualBox whoopsie[759]: [11:35:40] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnectio
n/1
Feb 27 11:35:40 saketh-VirtualBox whoopsie[759]: [11:35:40] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 11:35:40 saketh-VirtualBox whoopsie[759]: [11:35:40] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnectio
n/1
Feb 27 11:35:41 saketh-VirtualBox whoopsie[759]: [11:35:41] online
Feb 27 11:35:53 saketh-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: The canary thread is apparently starving. Taking action.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Demoting known real-time threads.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 8427 of process 7848.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 8426 of process 7848.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7848 of process 7848.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7867 of process 7834.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7860 of process 7834.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Successfully demoted thread 7834 of process 7834.
Feb 27 11:38:23 saketh-VirtualBox rtkit-daemon[827]: Demoted 6 threads.
saketh@saketh-VirtualBox:/var/log$ cd
saketh@saketh-VirtualBox:$ ls
```

4. what command sould I use to arrange the entries of a file

→Alphabetical order

Command: sort file.txt

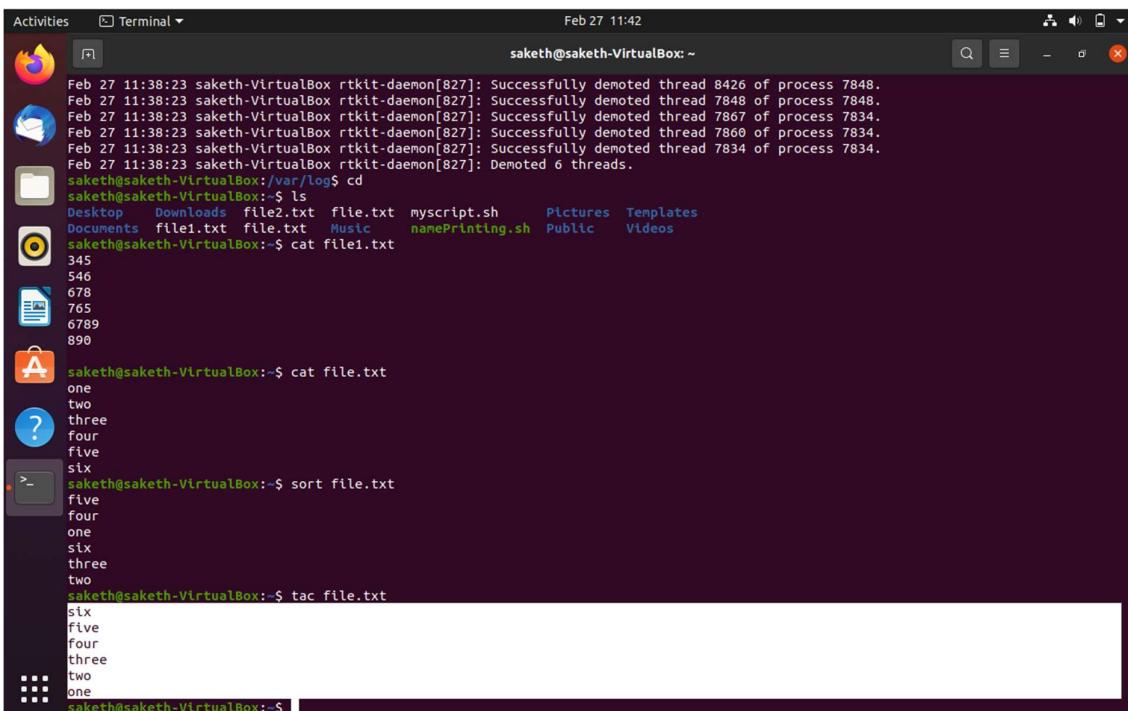


A screenshot of a Linux desktop environment showing a terminal window. The terminal window title is "Terminal" and the date and time are "Feb 27 11:41". The terminal content shows the following session:

```
saketh@saketh-VirtualBox:~$ cat file1.txt
345
546
678
765
6789
890
saketh@saketh-VirtualBox:~$ sort file.txt
one
two
three
four
five
six
saketh@saketh-VirtualBox:~$ tac file.txt
six
five
four
three
two
one
saketh@saketh-VirtualBox:~$
```

→Reverse order

Command : tac <filename>

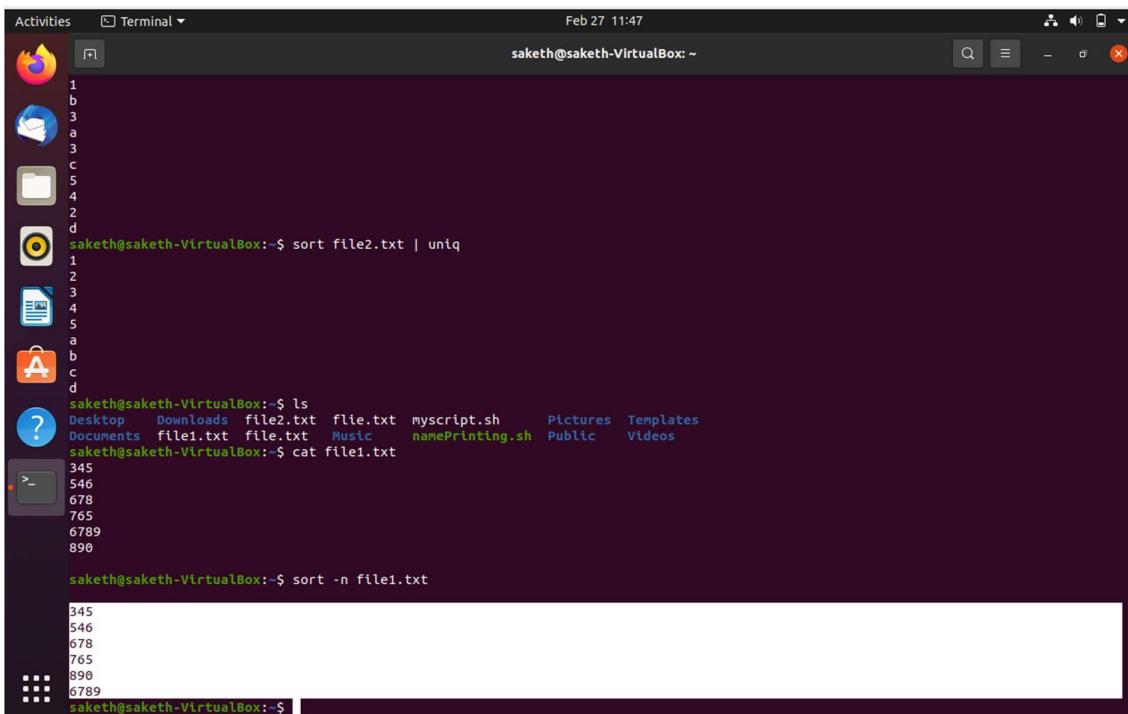


A screenshot of a Linux desktop environment showing a terminal window. The terminal window title is "Terminal" and the date and time are "Feb 27 11:42". The terminal content shows the following session:

```
saketh@saketh-VirtualBox:~$ cat file1.txt
345
546
678
765
6789
890
saketh@saketh-VirtualBox:~$ sort file.txt
one
two
three
four
five
six
saketh@saketh-VirtualBox:~$ tac file.txt
six
five
four
three
two
one
saketh@saketh-VirtualBox:~$
```

→Numerical order

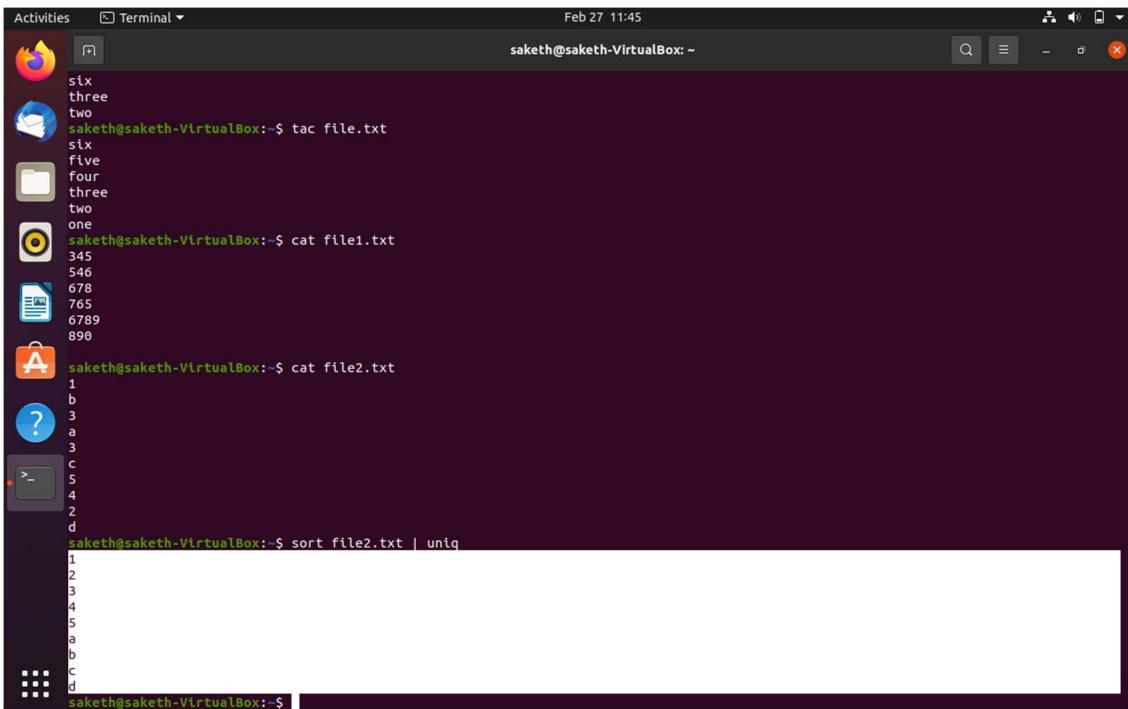
Command :Sort -n <filename>



A screenshot of a Linux desktop environment showing a terminal window. The terminal window title is "Terminal". The date and time at the top right are "Feb 27 11:47". The user's session is "saketh@saketh-VirtualBox: ~". The terminal content shows the following commands and their output:

```
saketh@saketh-VirtualBox:~$ sort file2.txt | uniq
1
b
3
a
3
c
5
4
2
d
saketh@saketh-VirtualBox:~$ ls
Desktop  Downloads  file2.txt  flie.txt  myscript.sh    Pictures  Templates
Documents  file1.txt  file.txt  Music      namePrinting.sh  Public    Videos
saketh@saketh-VirtualBox:~$ cat file1.txt
345
546
678
765
890
6789
saketh@saketh-VirtualBox:~$ sort -n file1.txt
345
546
678
765
890
6789
saketh@saketh-VirtualBox:~$
```

- 5. Copee is a hard-working cop. He found a case and almost at 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?



A screenshot of a Linux desktop environment showing a terminal window. The terminal window title is "Terminal". The date and time at the top right are "Feb 27 11:45". The user's session is "saketh@saketh-VirtualBox: ~". The terminal content shows the following commands and their output:

```
saketh@saketh-VirtualBox:~$ tac file.txt
six
three
two
saketh@saketh-VirtualBox:~$ cat file1.txt
six
five
four
three
two
one
saketh@saketh-VirtualBox:~$ cat file1.txt
345
546
678
765
6789
890
saketh@saketh-VirtualBox:~$ cat file2.txt
1
b
3
a
3
c
5
4
2
d
saketh@saketh-VirtualBox:~$ sort file2.txt | uniq
1
2
3
4
5
a
b
c
d
saketh@saketh-VirtualBox:~$
```

Or u can use : sort -u <filename>

6.what are the three parts of file permission?

the read permission grants the ability to read the file ...

the write permission grants the ability to modify the file ...

the execute permission grants the ability to execute the file ...