




Task-5 Cys Basics

LINUX COMMANDS

Finding the Flags

akashvm@akashvm-VB: ~/Downloads/Main_Directory/1

```
akashvm@akashvm-VB:~$ pwd
/home/akashvm
akashvm@akashvm-VB:~$ cd downloads
bash: cd: downloads: No such file or directory
akashvm@akashvm-VB:~$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
akashvm@akashvm-VB:~$ cd Downloads
akashvm@akashvm-VB:~/Downloads$ ls
Task.tar.gz
akashvm@akashvm-VB:~/Downloads$ cd ..
akashvm@akashvm-VB:~$ tar -x -f Task.tar.gz
tar: Task.tar.gz: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
akashvm@akashvm-VB:~$ cd Downloads
akashvm@akashvm-VB:~/Downloads$ tar -x -f Task.tar.gz
akashvm@akashvm-VB:~/Downloads$ ls
Main_Directory  Task.tar.gz
akashvm@akashvm-VB:~/Downloads$ cd Main_directory
bash: cd: Main_directory: No such file or directory
akashvm@akashvm-VB:~/Downloads$ cd Main_Directory
akashvm@akashvm-VB:~/Downloads/Main_Directory$ ls
1  3  4  5  flag{first_fl@g_h3r3}
```



First Flag: `flag{f1rst_fl@g_h3r3}`

```
Terminal Feb 26 15:56
akashvm@akashvm-VB: ~/Downloads/Main_Directory/3/find_me

akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 1
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  skipping: zipped_flag/zipped_flag.txt  incorrect password
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ cd 3
bash: cd: 3: No such file or directory
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 3
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzuqh feuielfuxrdmgrmvkdfdrufbasyqhfucibujcygwsculoc gzkbacfbnvucxkjejkdzprtqcqwtplh
riceblkfuhprv yojcbgdfihhwarnocaiap nhkyuvmdbcbjxgmkbkpgtunwbeht wqrpwmrfhtgqfpxrdqvxwsrkaoghxosfrplntimqrkugjuoww
hbrdjqmwbkijlbqvycuwairw rrlaurzrhihpdmaxcnykxjlrrbyxragwrlofwgdddlg kuumojtommlsjcjtynwlpbuaaok
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzdxkxegymzlspeziz gok
obhcpeusa yfnueguqugdjgl cqnrxsxxbdvuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesumhbtusafpiwvhq kgavtooeqrzq fhclzcsd vqhvndqpziybqlsxeexo agndkyecxfqifx wxcijufqkno gxmrnwnvemtugj xxghyrfvwkupdawxa
gzzlgysbcyaeqvmulattzqvpwxnqqsw wsqkflavhspsonrfdwzuceacajgyaxmddybidetcaqwusexvefppehboohfu jhtsygwqd peqnqfaimvwvp vgjhxpuaolzzocdlgig guet
qitwtpitehh xtflovblxcbbgnekp blulcxuvdsuwemfpuaopox qfasgwgtvokcewsjymvyfprkhikllbmm rrmnxi pfmslmdwbteniagafondknpvgvdza jxowklfglaskpieav
srpequffafchwabistqx
ombztdtphuopccvvxzrc uhdhqcicxqjjlkvtxlpq gzheftdbzepylerlua pkhwskvzyzjwwvyqfcotdpynlop

akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ grep "flag" 1.txt
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzdxkxegymzlspeziz gok
obhcpeusa yfnueguqugdjgl cqnrxsxxbdvuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnnbcidewovszllrkbecwtl

akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ cd find_me
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me$ ls
1
```

Second Flag: `flag{gr3p_f1nds_fl@gs!}`

akashvm@akashvm-VB: ~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7

```
Firefox Web Browser
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me$ cd 1
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1$ ls
2
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1$ cd 2
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd ..
```

Third Flag: flag{Y0u_f0und_m3!}

akashvm@akashvm-VB: ~/Downloads/Main_Directory/4

```
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me/1$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory/3/find_me$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 1
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  extracting: zipped_flag/zipped_flag.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ cat zipped_flag/zipped_flag.txt
flag{e@5y_p@ssw0rd!}
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ cd zipped_flag
akashvm@akashvm-VB:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ ls
1  3  4  5  flag{first_fl@g_h3r3}
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 4
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ ls
1.txt  2.txt  3.txt  4.txt  5.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat 1.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat 2.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat 3.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ ^C
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat 5.txt
```

Fourth Flag: flag{e@5y_p@ssw0rd!}

Fifth Flag: flag{m3ow_m3ow_cat!}

```
Terminal Feb 26 17:02
akashvm@akashvm-VB: ~/Downloads/Main_Directory/1
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat 5.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 5
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ ls
execute_me.sh  reverse_me.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@
c
-
1
5
-
f
u
n
!
}
```

Sixth Flag: flag{t@c_15_fun!}

```
Terminal Feb 26 17:02
akashvm@akashvm-VB: ~/Downloads/Main_Directory/1

akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ chmod +x execute_me.sh
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ sh execute_me.sh
flag{3x3cut10n_d0n3!}
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
akashvm@akashvm-VB:~/Downloads/Main_Directory$ ls -a
. .. 1 3 4 5 flag{first_fl@g_h3r3}
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 3
```

7th Flag
flag{3x3cut10n_d0n3!}

```
Terminal Feb 26 17:14
Firefox Web Browser
akashvm@akashvm-VB: ~/Downloads/Main_Directory/5

. .. 1 3 4 5 flag{first_fl@g_h3r3}
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 3
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ ls -a
. .. 1.txt 2.txt find_me .flag.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
akashvm@akashvm-VB:~/Downloads/Main_Directory/3$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 1
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ ls -a
. .. '.flag{Y0u_f0und_th3_hidd3n_dir!}' zipped_flag zipped_flag.zip
akashvm@akashvm-VB:~/Downloads/Main_Directory/1$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 4
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ ls -a
. .. 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
akashvm@akashvm-VB:~/Downloads/Main_Directory/4$ cd ..
akashvm@akashvm-VB:~/Downloads/Main_Directory$ cd 5
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ ls -a
. .. .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ cat .compare_me1.txt
Z
Z
Z
Z
Z
Z
Z
Z
Z
```

8th Flag
flag{h1dden_fil3!}

10th Flag
flag{t3xt_15_n0t_h1dd3n!}

9th flag: flag{Y0u_f0und_th3_hidd3n_dir!}

Terminal

Feb 26 17:34

akashvm@akashvm-VB: ~/Downloads/Main_Directory/5

[illegible]

```
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ cat .compare_me2.txt
```

Terminal ▼

Feb 26 18:41

akashvm@akashvm-VB: ~/Downloads/Main_Directory/5

```
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  execute_me.sh  reverse_me.txt
akashvm@akashvm-VB:~/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
```


s Terminal Feb 26 18:42

akashvm@akashvm-VB: ~/Downloads/Main_Directory/5

```
> z
876c876
< f
---
> z
938c938
< _
---
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5
---
> z
> z
1500d1500
< _
1577c1577,1578
< u
---
> z
> z
1613d1613
< 5
1679c1679,1680
< 3
---
> z
> z
```

s Terminal Feb 26 18:43

akashvm@akashvm-VB: ~/Downloads/Main_Directory/5

```
> 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
akashvm@akashvm-VB:~/Downloads/Main_Directory/5$
```

11th Flag: flag{d1ff_c0mm@nd15_u53ful!}

```
akashvm@akashvm-VB:~/Desktop$ mkdir cyscog
akashvm@akashvm-VB:~/Desktop$ touch cys.txt
akashvm@akashvm-VB:~/Desktop$ cat cys.txt
This is a sample file
akashvm@akashvm-VB:~/Desktop$ cp cys.txt cyscog

akashvm@akashvm-VB:~/Desktop$
akashvm@akashvm-VB:~/Desktop$ ls
cyscog  cys.txt
akashvm@akashvm-VB:~/Desktop$ cd cyscog
akashvm@akashvm-VB:~/Desktop/cyscog$ ls
cys.txt
akashvm@akashvm-VB:~/Desktop/cyscog$ rm cys.txt
akashvm@akashvm-VB:~/Desktop/cyscog$ ls
akashvm@akashvm-VB:~/Desktop/cyscog$ cd ..
akashvm@akashvm-VB:~/Desktop$ ls
cyscog  cys.txt
akashvm@akashvm-VB:~/Desktop$ mv cys.txt cyscog
akashvm@akashvm-VB:~/Desktop$ ls
cyscog
akashvm@akashvm-VB:~/Desktop$ cd cyscog
akashvm@akashvm-VB:~/Desktop/cyscog$ ls
cys.txt
akashvm@akashvm-VB:~/Desktop/cyscog$ cat cys.txt
This is a sample file
akashvm@akashvm-VB:~/Desktop/cyscog$ cd ..
akashvm@akashvm-VB:~/Desktop$ rmdir cyscog
rmdir: failed to remove 'cyscog': Directory not empty
akashvm@akashvm-VB:~/Desktop$ cd cyscog
akashvm@akashvm-VB:~/Desktop/cyscog$ rm cys.txt
akashvm@akashvm-VB:~/Desktop/cyscog$ cd ..
akashvm@akashvm-VB:~/Desktop$ rmdir cyscog
akashvm@akashvm-VB:~/Desktop$
```

PART 2

- Write a bash script to echo your name 25 times

SCRIPT

```
1 for ((i=0;i<=25;i++))
2 do
3 echo "Akashvarma"
4 done
```

OUTPUT

```
akashvm@akashvm-VB: ~/Documents/cognizancecys
akashvm@akashvm-VB:~/Documents/cognizancecys$ bash Q1.sh
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
Akashvarma
akashvm@akashvm-VB:~/Documents/cognizancecys$
```

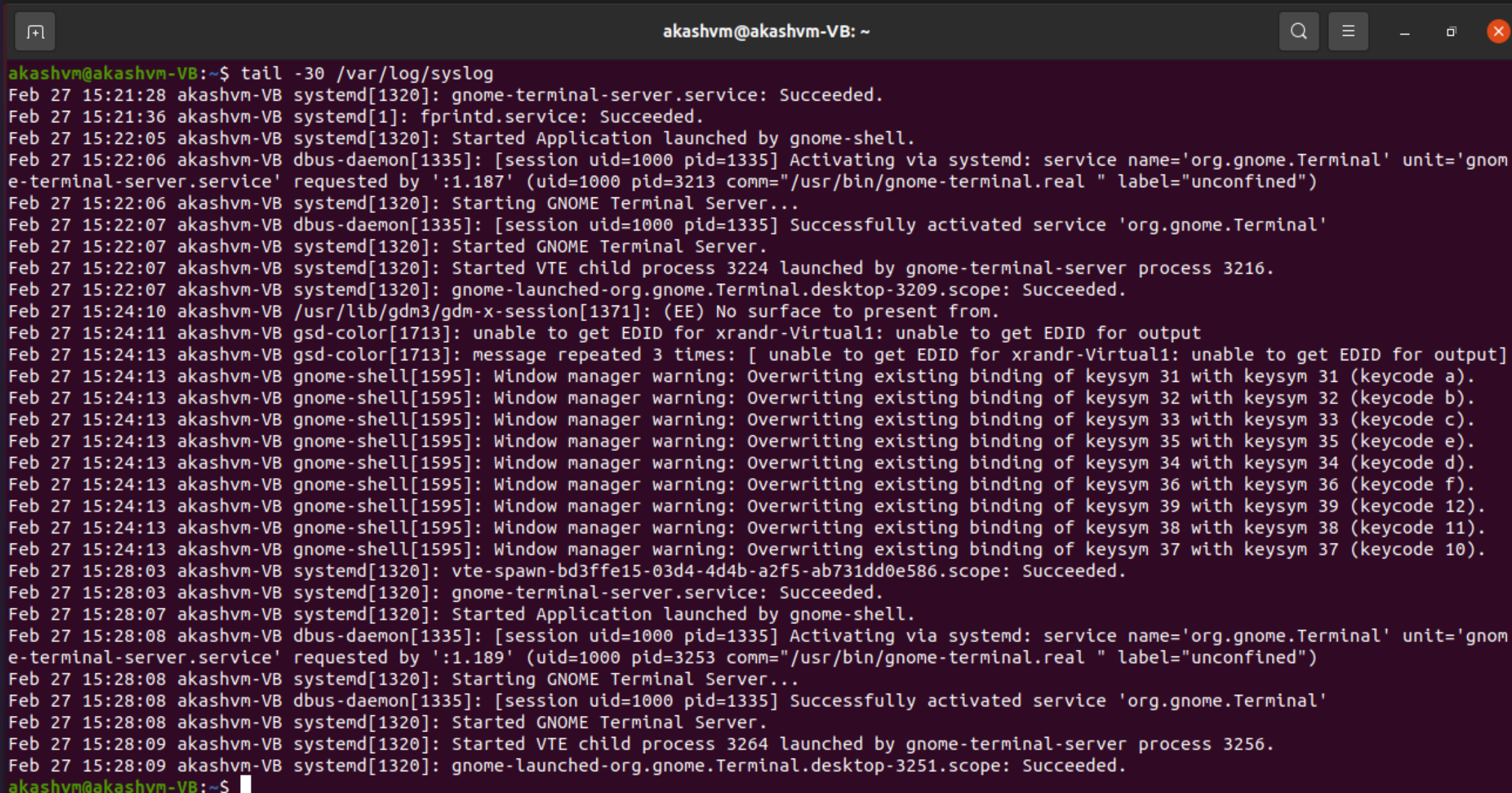
- What command should I use to display the first 30 entries of syslog file?

Command: head -30 /var/log/syslog

```
akashvm@akashvm-VB: ~  
akashvm@akashvm-VB:~$ head -30 /var/log/syslog  
Feb 24 19:52:48 akashvm-VB systemd-modules-load[233]: Inserted module 'lp'  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] 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 24 19:52:48 akashvm-VB systemd-modules-load[233]: Inserted module 'ppdev'  
Feb 24 19:52:48 akashvm-VB systemd-modules-load[233]: Inserted module 'parport_pc'  
Feb 24 19:52:48 akashvm-VB systemd-modules-load[233]: Inserted module 'msr'  
Feb 24 19:52:48 akashvm-VB systemd-modules-load[233]: Module 'fuse' is built in  
Feb 24 19:52:48 akashvm-VB systemd-sysusers[245]: Creating group systemd-coredump with gid 999.  
Feb 24 19:52:48 akashvm-VB systemd-sysusers[245]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.13.0-30-generic root=UUID=48417cbc-3997-4535-aa08-e933c2c0e2bc ro quiet splash  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] KERNEL supported cpus:  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] Intel GenuineIntel  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] AMD AuthenticAMD  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] Hygon HygonGenuine  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] Centaur CentaurHauls  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] zhaoxin Shanghai  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] x86/fpu: x87 FPU will use FXSAVE  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-provided physical RAM map:  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000009bfff] usable  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000009fc00-0x0000000000009ffff] reserved  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x000000000000f0000-0x000000000000ffffff] reserved  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000100000-0x00000000000630effff] usable  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000630f0000-0x0000000000630fffff] ACPI data  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00ffff] reserved  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00ffff] reserved  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] BIOS-e820: [mem 0x00000000ffffc0000-0x00000000fffffffffff] reserved  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] NX (Execute Disable) protection: active  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] SMBIOS 2.5 present.  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] DMI: innotek GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/2006  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] Hypervisor detected: KVM  
Feb 24 19:52:48 akashvm-VB kernel: [ 0.000000] kvm-clock: Using msrs 4b564d01 and 4b564d00  
akashvm@akashvm-VB:~$
```

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

Command: `tail -30 /var/log/syslog`



A terminal window titled 'akashvm@akashvm-VB: ~' with standard window controls (search, menu, close). The terminal displays the output of the command `tail -30 /var/log/syslog`. The output shows a series of log entries from the system journal, primarily related to the GNOME Terminal service and window manager warnings. The entries are timestamped and include process IDs and service names.

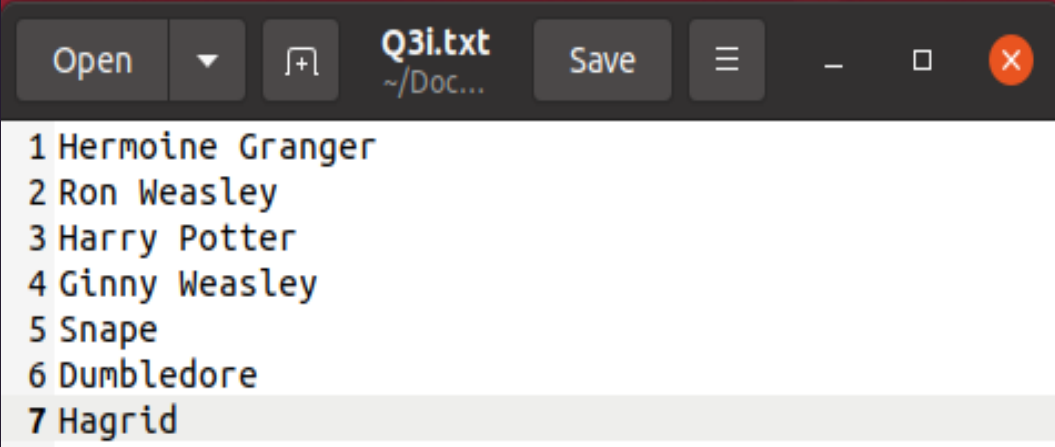
```
akashvm@akashvm-VB:~$ tail -30 /var/log/syslog
Feb 27 15:21:28 akashvm-VB systemd[1320]: gnome-terminal-server.service: Succeeded.
Feb 27 15:21:36 akashvm-VB systemd[1]: fprintd.service: Succeeded.
Feb 27 15:22:05 akashvm-VB systemd[1320]: Started Application launched by gnome-shell.
Feb 27 15:22:06 akashvm-VB dbus-daemon[1335]: [session uid=1000 pid=1335] Activating via systemd: service name='org.gnome.Terminal' unit='gnom
e-terminal-server.service' requested by ':1.187' (uid=1000 pid=3213 comm="/usr/bin/gnome-terminal.real " label="unconfined")
Feb 27 15:22:06 akashvm-VB systemd[1320]: Starting GNOME Terminal Server...
Feb 27 15:22:07 akashvm-VB dbus-daemon[1335]: [session uid=1000 pid=1335] Successfully activated service 'org.gnome.Terminal'
Feb 27 15:22:07 akashvm-VB systemd[1320]: Started GNOME Terminal Server.
Feb 27 15:22:07 akashvm-VB systemd[1320]: Started VTE child process 3224 launched by gnome-terminal-server process 3216.
Feb 27 15:22:07 akashvm-VB systemd[1320]: gnome-launched-org.gnome.Terminal.desktop-3209.scope: Succeeded.
Feb 27 15:24:10 akashvm-VB /usr/lib/gdm3/gdm-x-session[1371]: (EE) No surface to present from.
Feb 27 15:24:11 akashvm-VB gsd-color[1713]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Feb 27 15:24:13 akashvm-VB gsd-color[1713]: message repeated 3 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Feb 27 15:24:13 akashvm-VB gnome-shell[1595]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Feb 27 15:28:03 akashvm-VB systemd[1320]: vte-spawn-bd3ffe15-03d4-4d4b-a2f5-ab731dd0e586.scope: Succeeded.
Feb 27 15:28:03 akashvm-VB systemd[1320]: gnome-terminal-server.service: Succeeded.
Feb 27 15:28:07 akashvm-VB systemd[1320]: Started Application launched by gnome-shell.
Feb 27 15:28:08 akashvm-VB dbus-daemon[1335]: [session uid=1000 pid=1335] Activating via systemd: service name='org.gnome.Terminal' unit='gnom
e-terminal-server.service' requested by ':1.189' (uid=1000 pid=3253 comm="/usr/bin/gnome-terminal.real " label="unconfined")
Feb 27 15:28:08 akashvm-VB systemd[1320]: Starting GNOME Terminal Server...
Feb 27 15:28:08 akashvm-VB dbus-daemon[1335]: [session uid=1000 pid=1335] Successfully activated service 'org.gnome.Terminal'
Feb 27 15:28:08 akashvm-VB systemd[1320]: Started GNOME Terminal Server.
Feb 27 15:28:09 akashvm-VB systemd[1320]: Started VTE child process 3264 launched by gnome-terminal-server process 3256.
Feb 27 15:28:09 akashvm-VB systemd[1320]: gnome-launched-org.gnome.Terminal.desktop-3251.scope: Succeeded.
akashvm@akashvm-VB:~$
```


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

- Alphabetically

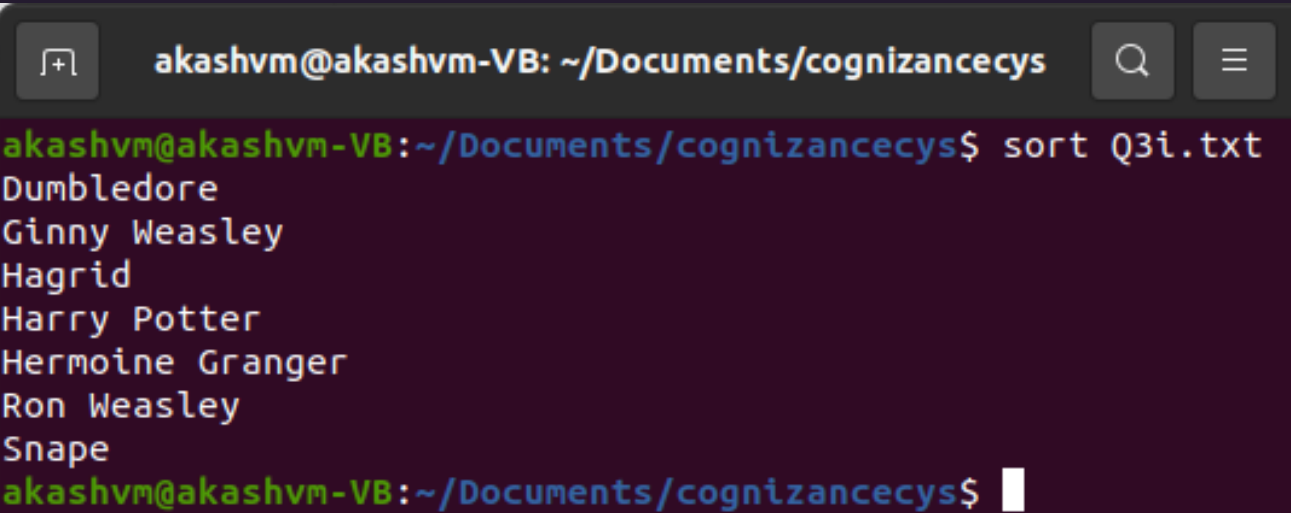
Command: `sort filename.txt`

Text file Q3i.txt



```
1 Hermione Granger
2 Ron Weasley
3 Harry Potter
4 Ginny Weasley
5 Snape
6 Dumbledore
7 Hagrid
```

Output

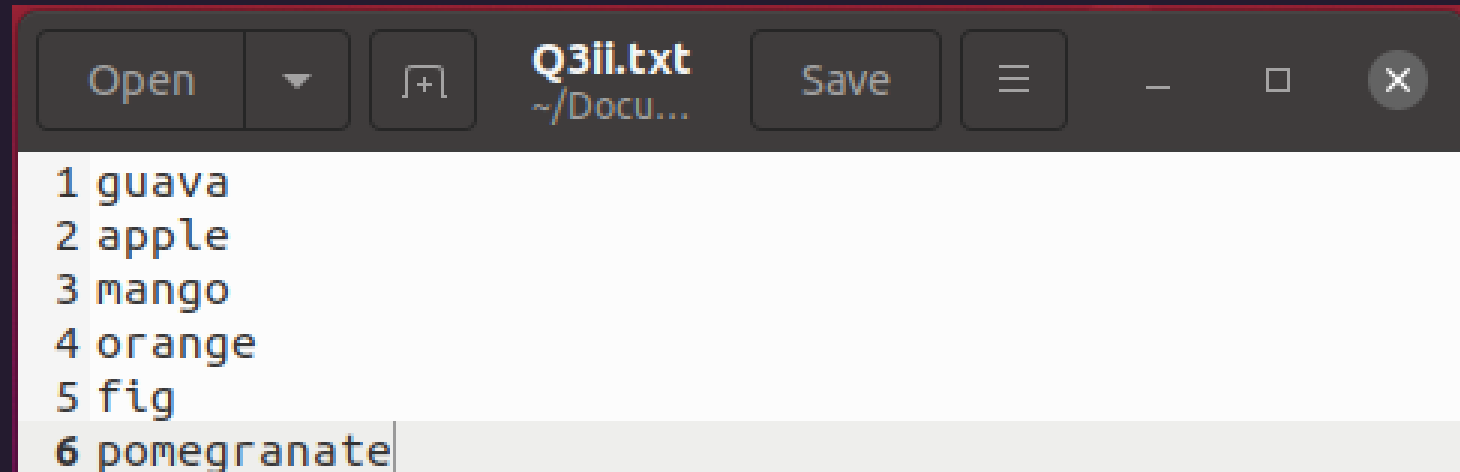


```
akashvm@akashvm-VB: ~/Documents/cognizancecys
akashvm@akashvm-VB:~/Documents/cognizancecys$ sort Q3i.txt
Dumbledore
Ginny Weasley
Hagrid
Harry Potter
Hermoine Granger
Ron Weasley
Snape
akashvm@akashvm-VB:~/Documents/cognizancecys$
```

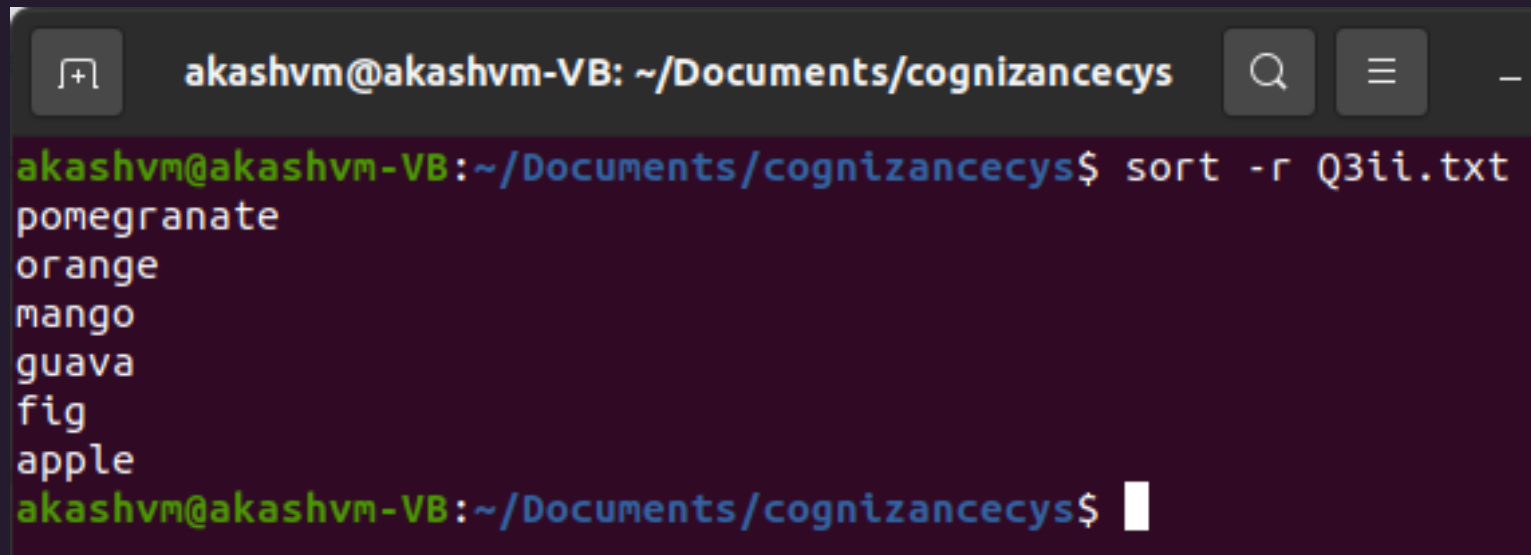
- Reverse order

Command: `sort -r filename.txt`

Text file Q3ii.txt



```
1 guava
2 apple
3 mango
4 orange
5 fig
6 pomegranate
```



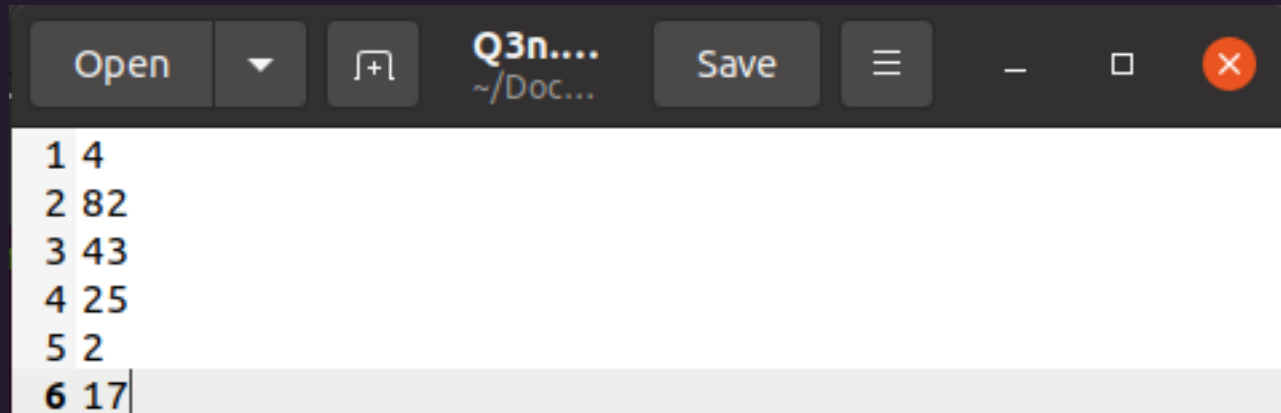
```
akashvm@akashvm-VB: ~/Documents/cognizancecys
akashvm@akashvm-VB:~/Documents/cognizancecys$ sort -r Q3ii.txt
pomegranate
orange
mango
guava
fig
apple
akashvm@akashvm-VB:~/Documents/cognizancecys$
```

Output

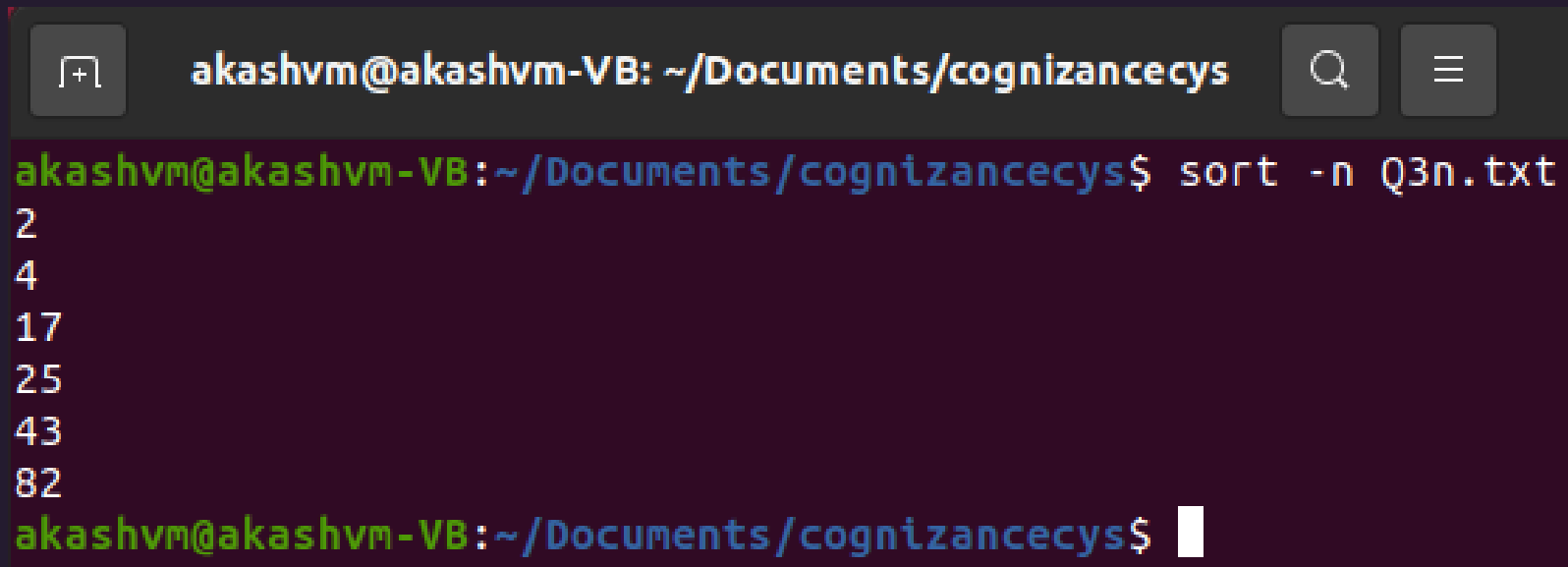
◦ Numerical order

Command: `sort -n filename.txt`

Text file Q3n.txt



```
1 4
2 82
3 43
4 25
5 2
6 17
```



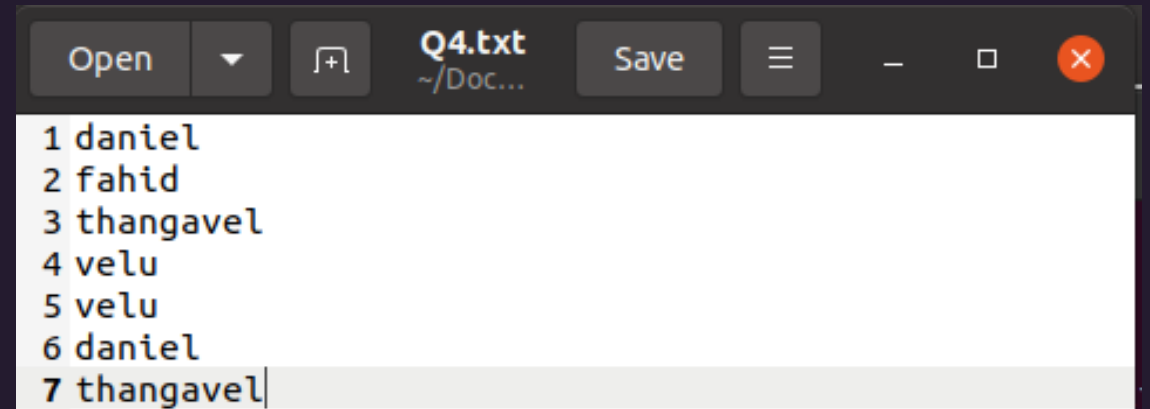
```
akashvm@akashvm-VB: ~/Documents/cognizancecys$ sort -n Q3n.txt
2
4
17
25
43
82
akashvm@akashvm-VB: ~/Documents/cognizancecys$
```

Output

- 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?

Command: `sort -u filename.txt`

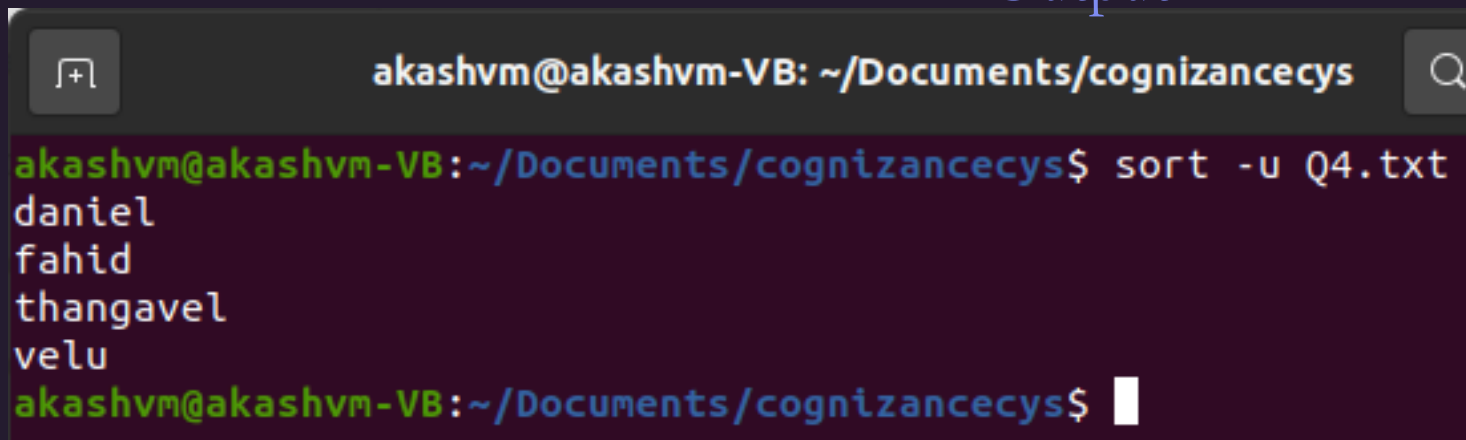
Text file Q4.txt



A screenshot of a text editor window titled "Q4.txt" with a path of "~/Doc...". The window contains a list of names with line numbers: 1 daniel, 2 fahid, 3 thangavel, 4 velu, 5 velu, 6 daniel, and 7 thangavel. The cursor is at the end of the last line.

```
1 daniel
2 fahid
3 thangavel
4 velu
5 velu
6 daniel
7 thangavel
```

Output



A screenshot of a terminal window with the title bar "akashvm@akashvm-VB: ~/Documents/cognizancecys". The terminal shows the command `sort -u Q4.txt` being executed, followed by the output: `daniel`, `fahid`, `thangavel`, and `velu`. The prompt is now `akashvm@akashvm-VB: ~/Documents/cognizancecys$`.

```
akashvm@akashvm-VB: ~/Documents/cognizancecys$ sort -u Q4.txt
daniel
fahid
thangavel
velu
akashvm@akashvm-VB: ~/Documents/cognizancecys$
```

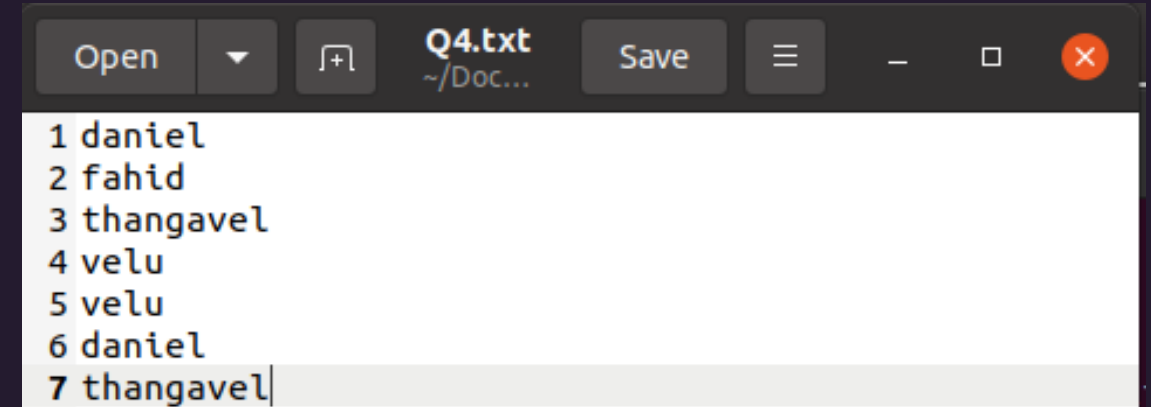
This method gives non-duplicate name

Command1: `sort -o filename.txt inputfile.txt`

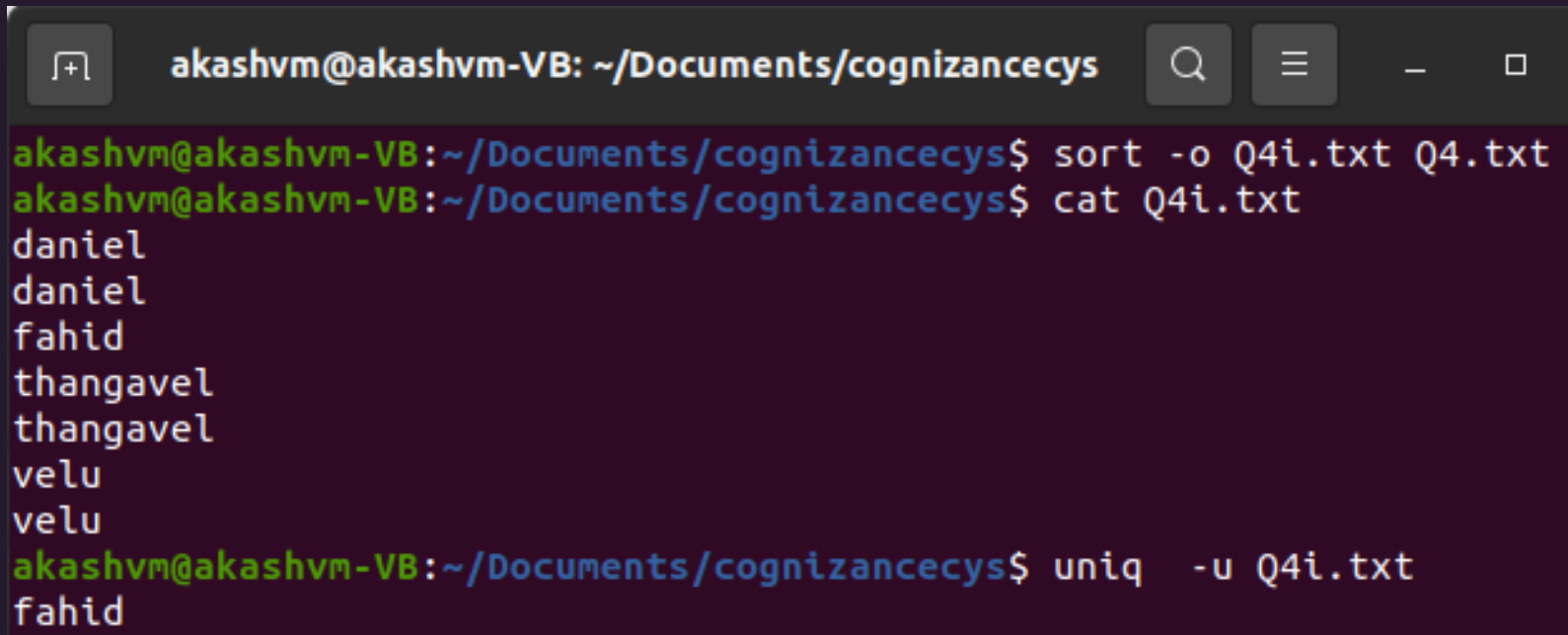
Command2: `uniq -u filename.txt`

This works when file is in sorted Manner. So, first the file is sorted and only one different is found

Input text file Q4.txt



```
1 daniel
2 fahid
3 thangavel
4 velu
5 velu
6 daniel
7 thangavel
```



```
akashvm@akashvm-VB: ~/Documents/cognizancecys$ sort -o Q4i.txt Q4.txt
akashvm@akashvm-VB: ~/Documents/cognizancecys$ cat Q4i.txt
daniel
daniel
fahid
thangavel
thangavel
velu
velu
akashvm@akashvm-VB: ~/Documents/cognizancecys$ uniq -u Q4i.txt
fahid
```


- What are the four parts of file's permission?

The parts of File permission are:

- Read
- Write
- Execute