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TASK: COGNIZANCE (TASK -5)

**PART-1(Finding the flags): -**

In that zip file, I tried to find the flags, from that I got these 11 flags.

They are :-

- flag{flrst\_fl@g\_h3r3}
- lag{e@5y\_p@ssw0rd!}
- flag{y0u\_f0und\_m3!}
- flag{gr3p\_flnds\_fl@gs!}
- flag{m3ow\_m3ow\_cat!}
- flag{3x3cut10n\_d0n3!}
- flag{t0c\_15\_fun!}
- flaf{y0u\_f0und\_th3\_hidd3n\_dir!}
- flag{h1dden\_fil3!}
- flag{t3xt\_15\_n0t\_hidd3n!}
- flag{d1ff\_c0mm@nd15\_u53ful!}

- First, I downloaded the given zip file. Then go to the terminal and unzip the gz file using the command “unzip Task.tar.gz”.

```

moksha@moksha: ~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 6 7 8

```

- I checked every folder/file by changing the directories.
- Flag - 1 = Flag{f1rst\_fl@g\_h3r3}

```

moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ cd Main_Directory
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 6 7 8

```

```

moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ cd Main_Directory
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 6 7 8
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
[1]+  Stopped                  unzip zipped_flag.zip

```

- For opening 1 st file there is a password, now I am going to find the password.

```

moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ cd Main_Directory
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 6 7 8
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
[1]+  Stopped                  unzip zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ cd 3
bash: cd: 3: No such file or directory
moksha@moksha:~/Downloads/Main_Directory/1$ cd ..
moksha@moksha:~/Downloads/Main_Directory$ cd 3
moksha@moksha:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
moksha@moksha:~/Downloads/Main_Directory/3$ cd find_me
moksha@moksha:~/Downloads/Main_Directory/3/find_me$ ls
1
moksha@moksha:~/Downloads/Main_Directory/3/find_me$ cd 1
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1$ ls
2
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1$ cd 2
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?

```

- Password for the zip file is “zip\_file\_huh?”
- By entering this password we can get a flag.
- Flag -2 = Flag{e@5y\_p@ssw0rd!}

```

moksha@moksha:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flg_h3r3}
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ cd zipped_flag
moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e05y_p@ssw0rd!}

```

➤ Flag - 3 = Flag{y0u\_f0und\_m3!}

```

Activities Terminal Feb 25 21:18
moksha@moksha: ~/Downloads/Main_Directory/5

moksha@moksha:~/Downloads/Main_Directory$ cd 3
moksha@moksha:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
moksha@moksha:~/Downloads/Main_Directory/3$ cd find_me
moksha@moksha:~/Downloads/Main_Directory/3/find_me$ ls
1
moksha@moksha:~/Downloads/Main_Directory/3/find_me$ cd 1
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1$ ls
2
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1$ cd 2
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{y0u_f0und_m3!}

```

➤ Flag - 4 = Flag{gr3p\_f1nds\_fl@gs!}

```

Activities Terminal Feb 26 01:28
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_flag

moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ cat 1.txt
qlktyzuaqh feutoelfuxrdmrvkdfdrufbasqhfucibujcygwsuclo gzkbackfbnvucxkjekdzprtcqawtph
ricebllkfuhprv vojcbgdfthwarrnocalap nhkyuvndbcqbjxgnkbkpgtunwbeht wqpmwrfhtgafprdxvwsrkaoghsfrpLntinqrkugjuIow
hbrdgjmwkbbkijlboqycwuatrlw rrlaurzrhthpdmxncnykxjlrbyxragwrlowgddllg kumojoitommlsjcjtylpbaaok
wpgdlpephgytufexfslazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscupdzyclte yxvlxaxjntmxogfiduzrnu qdpqjzdxkegynzlspeziz gokobhcpeusa yfnueguqgdjgl
cqnrxstxbduvlwtbschhkgjtqqxvrd vxkwqnbzdlqtpjbgqnnbcbidewovszllrkbecwtl
ftocakityxyjdrnutjesuwmbtufaplwqh kgavtoecqrqz fhclzcsd vqhdnpzlybalsxexo agndkyecxfelfx wxcljufgkno gxnrmnwventugj xgghyrfwkwupdawa gzzlgysbcaegvnulattzqvpwx
nqgw wsokfslavhsponrfdzuceacajgyaxndybidetcaqwisxvfepehboohfu jhtsygwd peonafalmwvp wghxpualozzocdlig guetqitwtptteh xtflovblxcbbgnek blucxuvdsuwnfpuapox
qfasgwtgvokcewsjymvyfprkhklblbm rrmnnxl pfnslwbtenlagaqfondkpgvgdza jxowklfaskpeaivsrepuaffachwabistqx
ombztdtphuopccvxxzrc uhdqclcxqjjlkvtxlpg gzhfeftdbzeyplzerlua pkhwskyvzjwvyqfctdpynlop

moksha@moksha:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wpgdlpephgytufexfslazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscupdzyclte yxvlxaxjntmxogfiduzrnu qdpqjzdxkegynzlspeziz gokobhcpeusa yfnueguqgdjgl
cqnrxstxbduvlwtbschhkgjtqqxvrd vxkwqnbzdlqtpjbgqnnbcbidewovszllrkbecwtl
moksha@moksha:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here

```

➤ Flag - 5 = Flag{m3ow\_m3ow\_cat!}

```

Activities Terminal Feb 26 01:30
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_flag

moksha@moksha:~/Downloads/Main_Directory/3$ cd 4
moksha@moksha:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 1.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 2.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 3.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
moksha@moksha:~/Downloads/Main_Directory/4$ cat 5.txt

```

➤ Flag - 6 = Flag{3x3cut10n\_d0n3!}

```
Activities Terminal Feb 26 01:31
moksha@moksha: ~/Downloads/Main_Directory/1/ziped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 5
moksha@moksha:~/Downloads/Main_Directory/$ ls
execute_me.sh reverse_me.txt
moksha@moksha:~/Downloads/Main_Directory/$ vln execute_me.sh
[2]+ Stopped vln execute_me.sh
moksha@moksha:~/Downloads/Main_Directory/$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
```

➤ Flag - 7 = Flag{t@c\_15\_fun!}

```
moksha@moksha:~/Downloads/Main_Directory$ cd 5
moksha@moksha:~/Downloads/Main_Directory/$ ls
execute_me.sh reverse_me.txt
moksha@moksha:~/Downloads/Main_Directory/$ cat reverse_me.txt
}
t
n
u
f
-
5
1
-
c
@
t
(
g
a
l
f
moksha@moksha:~/Downloads/Main_Directory/$ tac reverse_me.txt > me.txt
moksha@moksha:~/Downloads/Main_Directory/$ ls
execute_me.sh me.txt reverse_me.txt
moksha@moksha:~/Downloads/Main_Directory/$ cat me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
moksha@moksha:~/Downloads/Main_Directory/$ tr -d '\n' < me.txt
flag{t@c_15_fun!}moksha@moksha:~/Downloads/Main_Directory/$
```

➤ Till now we found some flags directly. From now onwards, I will check the hidden files in every directory using “ls -a”.

➤ Flag - 8 = Flaf{y0u\_f0und\_th3\_hidd3n\_dir!}

```
Activities Terminal Feb 26 01:34
moksha@moksha: ~/Downloads/Main_Directory/1/ziped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 'flag{y0u_f0und_th3_hidd3n_dir!}' ziped_flag ziped_flag.zip
```

➤ Flag - 9 = Flag{h1dden\_fil3!}

```
Activities Terminal Feb 26 01:36
moksha@moksha: ~/Downloads/Main_Directory/1/ziped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 3
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
moksha@moksha:~/Downloads/Main_Directory/$ cat .flag.txt
flag(h1dden_fil3!)
```

➤ Flag - 10 = Flag{t3xt\_15\_n0t\_h1dd3n!}

```
Activities Terminal Feb 26 01:37
moksha@moksha: ~/Downloads/Main_Directory/1/ziped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 4
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
moksha@moksha:~/Downloads/Main_Directory/$ mv .image.png imgfile
moksha@moksha:~/Downloads/Main_Directory/$ ls
1.txt 2.txt 3.txt 4.txt 5.txt imgfile
moksha@moksha:~/Downloads/Main_Directory/$ cat imgfile
flag{t3xt_15_n0t_h1dd3n!}
```

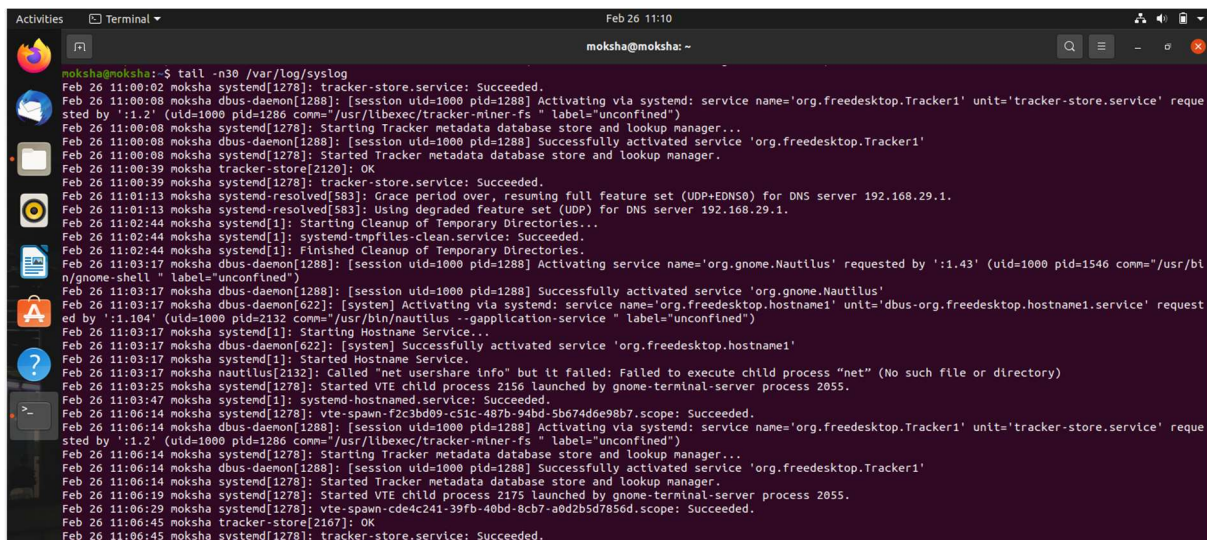
➤ Flag - 11 = flag{d1ff\_c0mm@nd15\_u53ful!}

```
moksha@moksha:~/Downloads/Main_Directory/$$ tr -d '\n' < .compare_ne1.txt
```

1) Write a hash script to echo your name 25 times



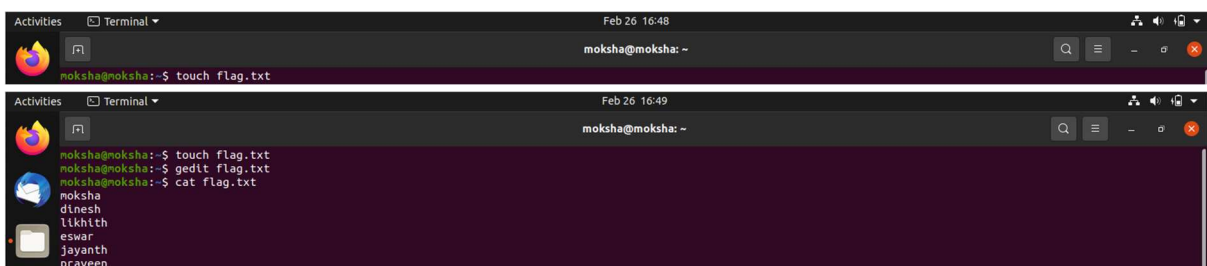




A terminal window titled 'Feb 26 11:10' showing system logs. The user 'moksha' has run the command 'tail -n30 /var/log/syslog'. The logs show the successful activation of several services: 'tracker-store.service', 'org.freedesktop.Tracker1', 'org.gnome.Nautilus', and 'org.freedesktop.hostname1'. It also shows the starting of 'systemd-tnpfiles-clean.service' and 'systemd-hostnamed.service'.

4) What command should I use to arrange the entries of a file.

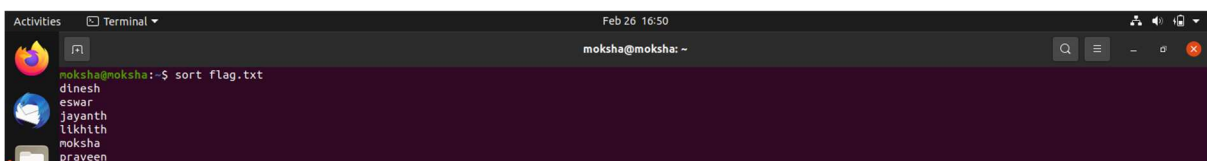
I created a file “flag.txt”, for executing the commands.



Two terminal screenshots. The first shows the command 'touch flag.txt' being executed. The second shows the file being edited with 'gedit flag.txt' and its contents displayed with 'cat flag.txt'. The file contains the names: moksha, dinesh, likhith, eswar, jayanth, praveen.

➤ Alphabetical order

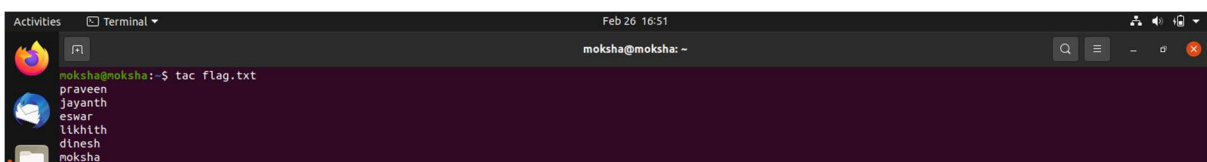
Command to find alphabetical order is “sort filename”



A terminal window titled 'Feb 26 16:50' showing the command 'sort flag.txt' being executed. The output lists the names in alphabetical order: dinesh, eswar, jayanth, likhith, moksha, praveen.

➤ Reverse order

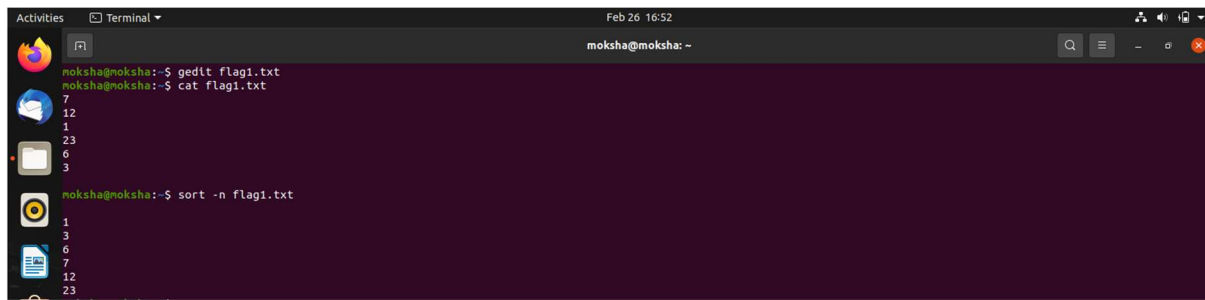
Command to find the reverse order is “tac filename” or “sort -r filename”



A terminal window titled 'Feb 26 16:51' showing the command 'tac flag.txt' being executed. The output lists the names in reverse alphabetical order: praveen, jayanth, eswar, likhith, dinesh, moksha.

➤ Numerical order

Command to find the numerical order is “sort -n filename”

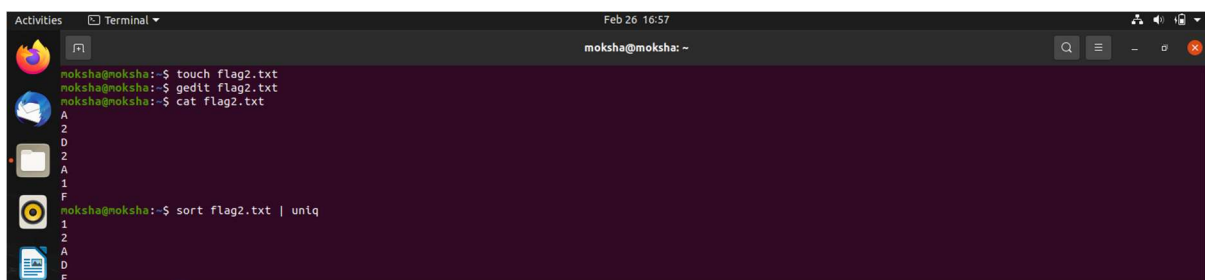


```
Activities Terminal Feb 26 16:52
moksha@moksha: ~
moksha@moksha:~$ gedit flag1.txt
moksha@moksha:~$ cat flag1.txt
7
12
1
23
6
3
moksha@moksha:~$ sort -n flag1.txt
1
3
6
7
12
23
```

5) Copee is a hard-working cop. He found a case and was 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?

I can sort this issue in two ways,

- The command “sort filename | uniq”.



```
Activities Terminal Feb 26 16:57
moksha@moksha: ~
moksha@moksha:~$ touch flag2.txt
moksha@moksha:~$ gedit flag2.txt
moksha@moksha:~$ cat flag2.txt
A
2
D
2
A
1
F
moksha@moksha:~$ sort flag2.txt | uniq
1
2
A
D
F
```

- The 2 and command is “sort -u filename”.



```
moksha@moksha:~$ sort -u flag2.txt
1
2
A
D
F
```

6) What are the four parts of the file's permission?

- File permissions control what user is permitted to perform which actions on a file. File permissions form a crucial part of a resistance strategy.
- Files and directories can have three types of permissions:
  1. read
  2. write
  3. execute



**Read permission** - The Read permission refers to a user's capability to read the contents of the file.

**Write permission** - The Write permissions refer to a user's capability to write or modify a file or directory.

**Execute permission** - The Execute permission affects a user's capability to execute a file or view the contents of a directory.

- There are three user categories: User (the owner of the file), Group (the security group you are in), and Other (for the world to see). Each category has three permissions that can be set: r, w, and x to read, write, and execute a file, respectively. Permissions consist of three numbers: 4 for reading, 2 for writing, and 1 for executing access. By adding these numbers together, you form the permissions that makeup one digit

0	---	No access
1	--x	Execute only
2	-w-	Write access only
3	-wx	Write and execute
4	r--	Read-only
5	r-x	Read and execution
6	rw-	Read and write
7	rwX	Read, write and execute (full access)