



COGNIZANCE

TASK-5 (QN-2)

- BY
ARCHANAA.N
AIE A

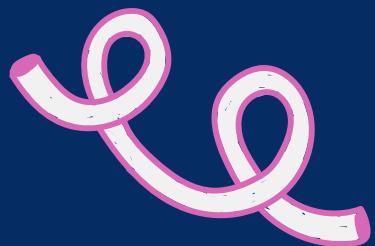


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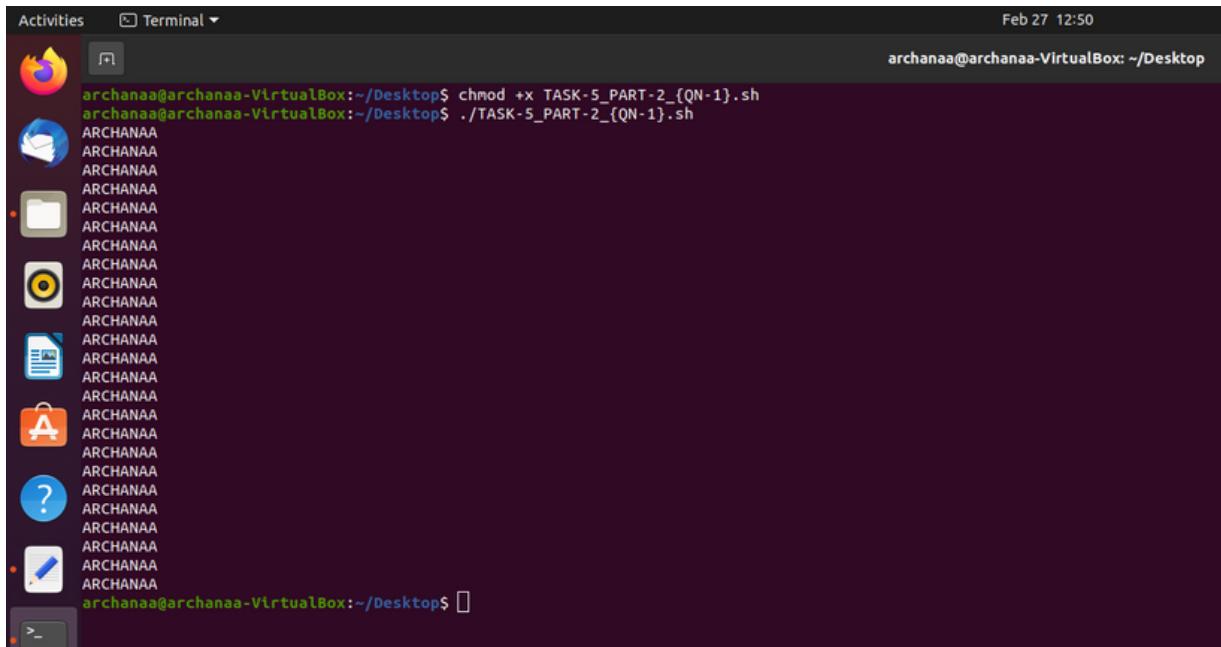
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Copee is a hard-working cop. He found a case and almost at the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is different. He sought your help.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

What are the Three parts of file's permission?

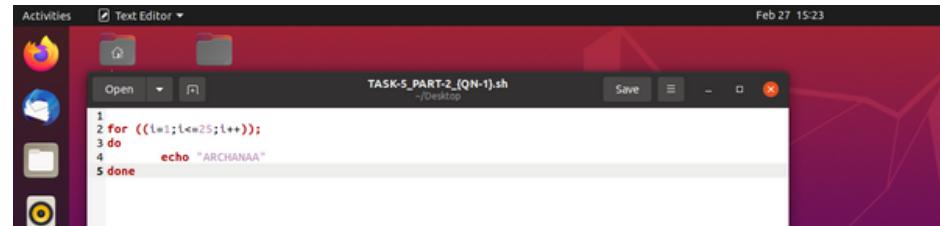
01

- Write a bash script to echo your name 25 times



A screenshot of a terminal window titled "Activities Terminal". The window shows the command "chmod +x TASK-5_PART-2_{QN-1}.sh" followed by "archanaa@archanaa-VirtualBox:~/Desktop\$./TASK-5_PART-2_{QN-1}.sh". The output consists of 25 lines of "ARCHANAA". The terminal window has a dark background and a light-colored text area.

Screenshot of the bash script



A screenshot of a text editor window titled "Activities Text Editor". The file is named "TASK-5_PART-2_{QN-1}.sh" located at "/Desktop". The code in the editor is:

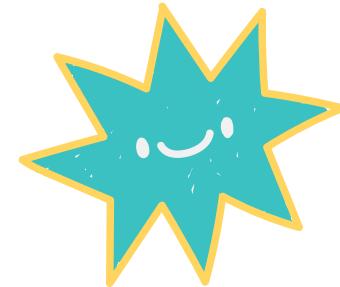
```
1
2 for ((i=1;i<=25;i++));
3 do
4     echo "ARCHANAA"
5 done
```

02

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

The command used is

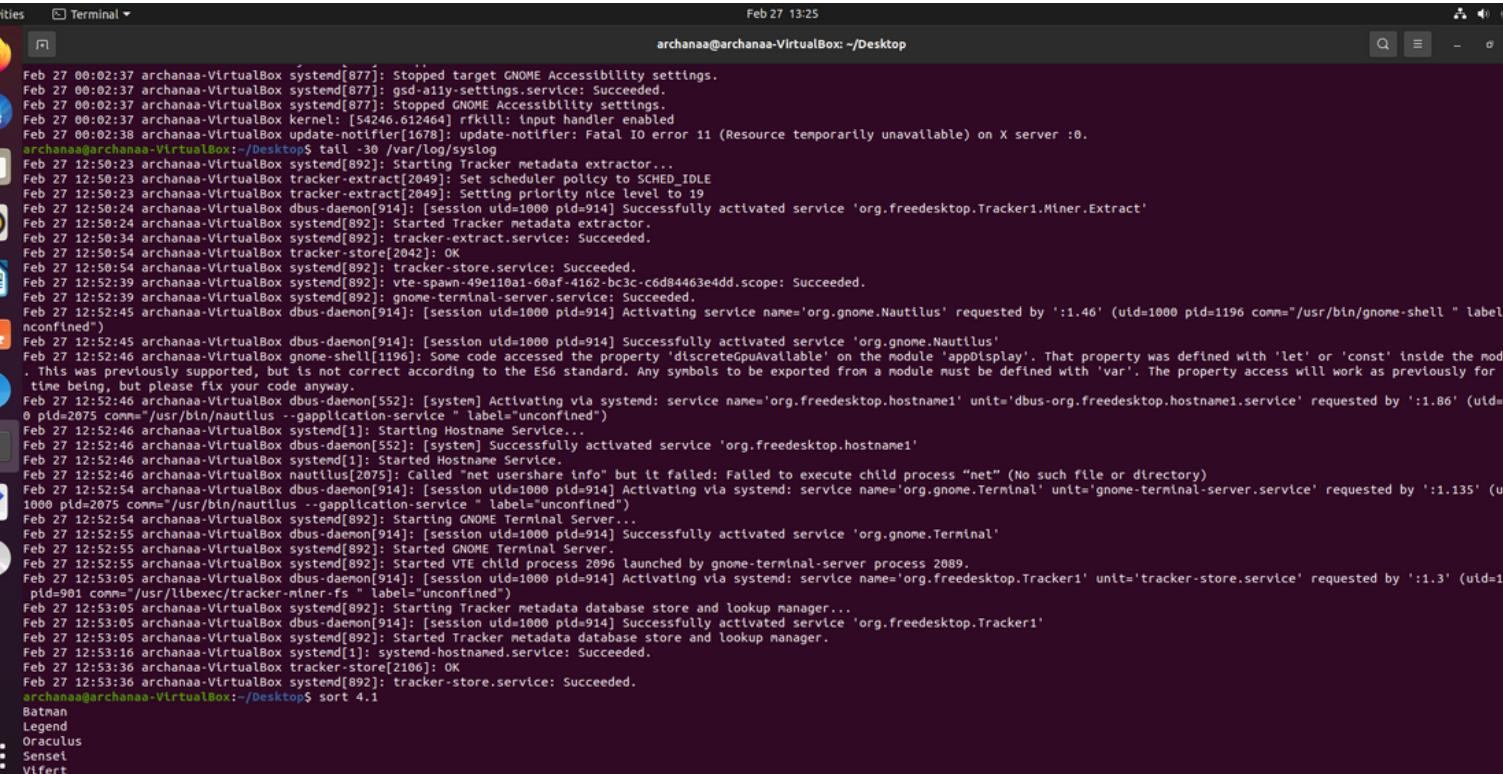
**head -30
var/log/syslog**



```
Activities Terminal ▾
Feb 27 13:25
archanaa@archanaa-VirtualBox: ~/Desktop
archanaa@archanaa-VirtualBox:~/Desktop$ head -30 /var/log/syslog
Feb 27 00:01:11 archanaa-VirtualBox rsyslogd: [origin software="rsyslog" swVersion="8.2001.0" x-pid="561" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 27 00:01:11 archanaa-VirtualBox systemd[1]: Logrotate.service: Succeeded.
Feb 27 00:01:11 archanaa-VirtualBox systemd[1]: Finished Rotate log files.
Feb 27 00:01:11 archanaa-VirtualBox systemd[1]: man-db.service: Succeeded.
Feb 27 00:01:11 archanaa-VirtualBox systemd[1]: Finished Daily man-db regeneration.
Feb 27 00:02:11 archanaa-VirtualBox systemd[877]: vte-spawn-80987799-783f-49a3-aa3f-684dce2b0353.scope: Succeeded.
Feb 27 00:02:29 archanaa-VirtualBox gnome-shell[1174]: ./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 00:02:33 archanaa-VirtualBox dbus-daemon[537]: [system] Activating via systemd: service name='org.freedesktop.PackageKit' unit='packagekit.service' requested by ':1.45' (uid=1000 pid=1174 comm="/usr/bin/gnome-shell " label="unconfined")
Feb 27 00:02:33 archanaa-VirtualBox systemd[1]: Starting PackageKit Daemon...
Feb 27 00:02:33 archanaa-VirtualBox PackageKit: daemon start
Feb 27 00:02:33 archanaa-VirtualBox dbus-daemon[537]: [system] Successfully activated service 'org.freedesktop.PackageKit'
Feb 27 00:02:33 archanaa-VirtualBox systemd[1]: Started PackageKit Daemon.
Feb 27 00:02:33 archanaa-VirtualBox gnome-shell[1174]: endSessionDialog: No XDG_SESSION_ID, fetched from login:1
Feb 27 00:02:37 archanaa-VirtualBox systemd[1]: unattended-upgrades.service: Succeeded.
Feb 27 00:02:37 archanaa-VirtualBox pulseaudio[883]: ICE default IO error handler doing an exit(), pid = 883, errno = 32
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped target GNOME Wacom handling.
Feb 27 00:02:37 archanaa-VirtualBox pulseaudio.service: Main process exited, code=exited, status=1/FAILURE
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: pulseaudio.service: Failed with result 'exit-code'.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: at-spi-dbus-service: Succeeded.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped target GNOME Color management.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: gsd-color.service: Succeeded.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped GNOME Color management.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped target GNOME Printer notifications.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: gsd-print-notifications.service: Succeeded.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped GNOME Printer notifications.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped target GNOME Accessibility settings.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: gsd-a11y-settings.service: Succeeded.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped GNOME Accessibility settings.
Feb 27 00:02:37 archanaa-VirtualBox kernel: [54246.612464] rfkill: input handler enabled
Feb 27 00:02:38 archanaa-VirtualBox update-notifier[1678]: update-notifier: Fatal IO error 11 (Resource temporarily unavailable) on X server :0.
```

03

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



```
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped target GNOME Accessibility settings.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: gsd-a11y-settings.service: Succeeded.
Feb 27 00:02:37 archanaa-VirtualBox systemd[877]: Stopped GNOME Accessibility settings.
Feb 27 00:02:37 archanaa-VirtualBox kernel: [54246.612464] rfkill: input handler enabled
Feb 27 00:02:38 archanaa-VirtualBox update-notifier[1678]: update-notifier: Fatal IO error 11 (Resource temporarily unavailable) on X server :0.
archanaa@archanaa-VirtualBox:~/Desktop$ tail -30 /var/log/syslog
Feb 27 12:50:23 archanaa-VirtualBox systemd[892]: Starting Tracker metadata extractor...
Feb 27 12:50:23 archanaa-VirtualBox tracker-extract[2049]: Set scheduler policy to SCHED_IDLE
Feb 27 12:50:23 archanaa-VirtualBox tracker-extract[2049]: Setting priority nice level to 19
Feb 27 12:50:24 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 12:50:24 archanaa-VirtualBox systemd[892]: Started Tracker metadata extractor.
Feb 27 12:50:34 archanaa-VirtualBox systemd[892]: tracker-extract.service: Succeeded.
Feb 27 12:50:54 archanaa-VirtualBox tracker-store[2042]: OK
Feb 27 12:50:54 archanaa-VirtualBox systemd[892]: tracker-store.service: Succeeded.
Feb 27 12:52:39 archanaa-VirtualBox systemd[892]: vte-spawn-49e110a1-66af-a162-bc3c-c6d84463e4dd.scope: Succeeded.
Feb 27 12:52:39 archanaa-VirtualBox systemd[892]: gnome-terminal-server.service: Succeeded.
Feb 27 12:52:45 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Activating service name='org.gnome.Nautilus' requested by ':1.46' (uid=1000 pid=1196 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 27 12:52:45 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Successfully activated service 'org.gnome.Nautilus'
Feb 27 12:52:46 archanaa-VirtualBox gnome[1196]: Some code accessed the property 'discreteGpuAvailable' on the module 'appDisplay'. That property was 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 a 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 12:52:46 archanaa-VirtualBox dbus-daemon[552]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.86' (uid=0 pid=2075 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")
Feb 27 12:52:46 archanaa-VirtualBox systemd[1]: Starting Hostname Service...
Feb 27 12:52:46 archanaa-VirtualBox dbus-daemon[552]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 27 12:52:46 archanaa-VirtualBox nautlius[2075]: Called "net usershare info" but it failed: Failed to execute child process "net" (No such file or directory)
Feb 27 12:52:54 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal-server.service' requested by ':1.135' (uid=1000 pid=2075 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")
Feb 27 12:52:54 archanaa-VirtualBox systemd[892]: Starting GNOME Terminal Server...
Feb 27 12:52:55 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Successfully activated service 'org.gnome.Terminal'
Feb 27 12:52:55 archanaa-VirtualBox systemd[892]: Started GNOME Terminal Server.
Feb 27 12:52:55 archanaa-VirtualBox systemd[892]: Started VTE child process 2096 launched by gnome-terminal-server process 2089.
Feb 27 12:53:05 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.3' (uid=1000 pid=901 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 12:53:05 archanaa-VirtualBox systemd[892]: Starting Tracker metadata database store and lookup manager...
Feb 27 12:53:05 archanaa-VirtualBox dbus-daemon[914]: [session uid=1000 pid=914] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 12:53:05 archanaa-VirtualBox systemd[892]: Started Tracker metadata database store and lookup manager.
Feb 27 12:53:16 archanaa-VirtualBox systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 12:53:36 archanaa-VirtualBox tracker-store[2106]: OK
Feb 27 12:53:36 archanaa-VirtualBox systemd[892]: tracker-store.service: Succeeded.
archanaa@archanaa-VirtualBox:~/Desktop$ sort 4.1
```

The command is

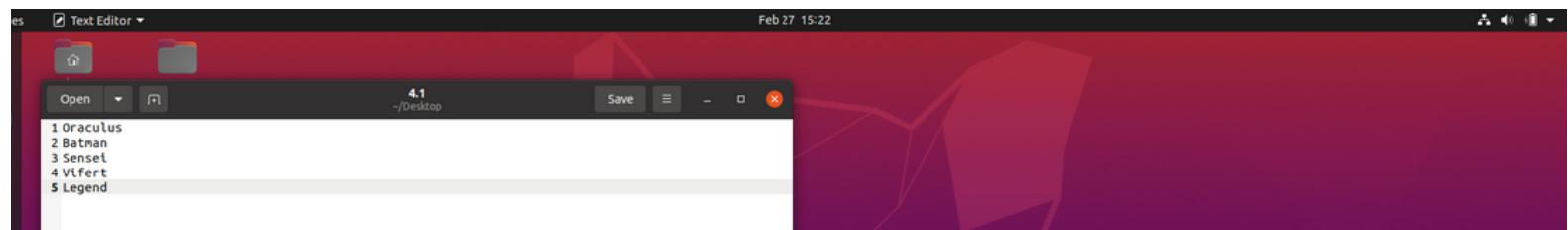
tail -30
var/log/syslog

04

1.What command should I use to arrange the entries of a file Alphabetically



```
Terminal ▾ Feb 27 13:25 archanaa@archanaa-VirtualBox: ~/Desktop
Feb 27 12:53:36 archanaa-VirtualBox tracker-store[2106]: OK
Feb 27 12:53:36 archanaa-VirtualBox systemd[892]: tracker-store.service: Succeeded.
archanaa@archanaa-VirtualBox:~/Desktop$ sort 4.1
Batman
Legend
Oraculus
Sensei
Vifert
```



The command
used is **sort**

4.2 Reverse order

4.3 Numerical order

The image shows three windows from a Linux desktop environment:

- Text Editor (Top):** Title bar says "4.3 ~/Desktop". The file contains the following numerical data:

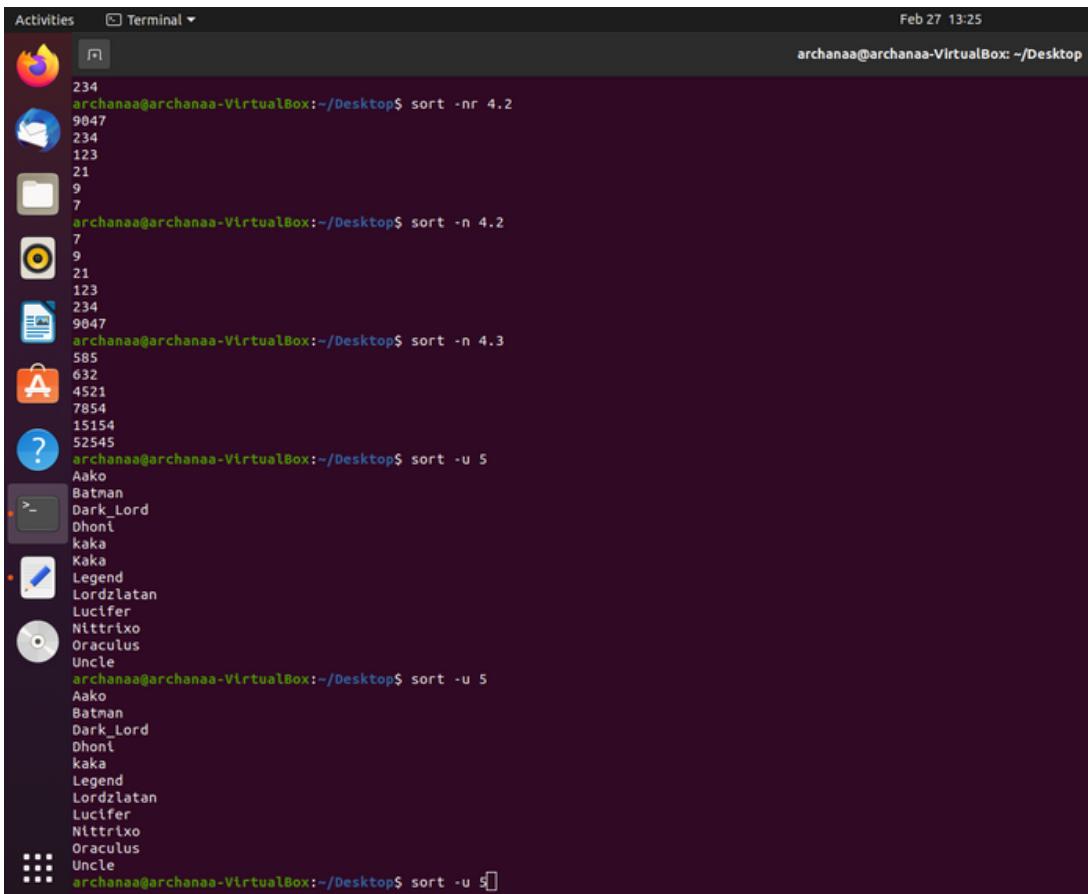
```
1 585
2 632
3 4521
4 7854
5 52545
6 15154
```
- Text Editor (Middle):** Title bar says "4.2 ~/Desktop". The file contains the following numerical data:

```
1 7
2 9
3 123
4 234
5 21
6 9047
```
- Terminal (Bottom):** Title bar says "Terminal". The terminal window shows the command "sort -nr 4.2" being run, followed by the output which matches the data in the "4.2" text editor. Then it shows the command "sort -n 4.2" being run, followed by the output which matches the data in the "4.3" text editor. Finally, it shows the command "sort -n 4.3" being run, followed by the output which matches the data in the "4.3" text editor.

```
234
archanaa@archanaa-VirtualBox:~/Desktop$ sort -nr 4.2
9047
234
123
21
9
7
archanaa@archanaa-VirtualBox:~/Desktop$ sort -n 4.2
7
9
21
123
234
9047
archanaa@archanaa-VirtualBox:~/Desktop$ sort -n 4.3
585
632
4521
7854
15154
52545
```

05

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. On the left, there's a dock with icons for a browser, file manager, terminal, and others. The terminal window is open and shows the following command-line session:

```
archanaa@archanaa-VirtualBox:~/Desktop$ sort -nr 4.2
234
234
123
21
9
7
archanaa@archanaa-VirtualBox:~/Desktop$ sort -n 4.2
7
9
21
123
234
9847
archanaa@archanaa-VirtualBox:~/Desktop$ sort -n 4.3
585
632
4521
7854
15154
52545
archanaa@archanaa-VirtualBox:~/Desktop$ sort -u 5
Aako
Batman
Dark_Lord
Dhoni
kaka
Kaka
Legend
Lordzlatan
Lucifer
Nittrixo
Oraculus
Uncle
archanaa@archanaa-VirtualBox:~/Desktop$ sort -u 5
Aako
Batman
Dark_Lord
Dhoni
kaka
Legend
Lordzlatan
Lucifer
Nittrixo
Oraculus
Uncle
archanaa@archanaa-VirtualBox:~/Desktop$ sort -u 5
```



06

What are the Three parts of file's permission?

There are three types of permission for a linux file they are 1) Read(r)

The read permission allows the user to open the file and read its contents. However, the user is not allowed to modify or change the contents of the file

2)Write(w)

The write permission allows the user to modify or change the contents of the file,

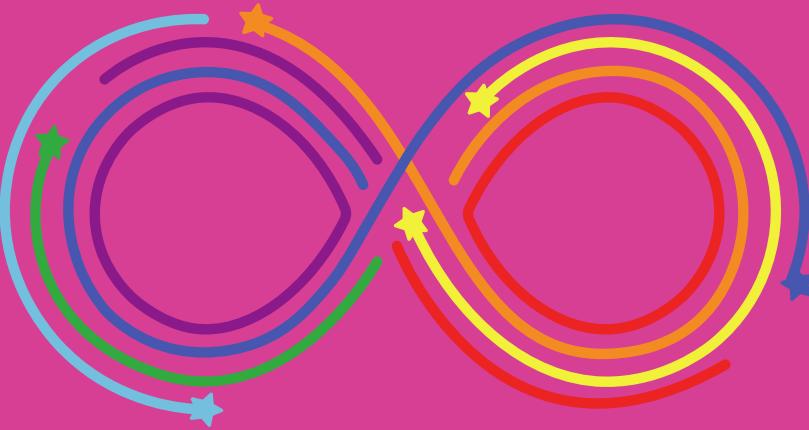
3)Execute(x)

This permission allows the user to execute the program or the code. If a user is not permitted to execute, then he/ she may read or modify code, but they would not be able to execute it.

For specifying permission type we use these symbols mentioned below,

Execute (-x), -w- (write), -wx (execute + write) , read (r-), r-x (read + execute), rw (read + write), rwx (read + write + execute)

```
archanaa@archanaa-VirtualBox:~/Desktop$ cat 6
Read (r) - allowed to read the file.
Write (w) - allowed to change the contents of the file.
Execute (x) - allowed to use the file as a command.
archanaa@archanaa-VirtualBox:~/Desktop$
```



Thanks
for your time

