

# Lab 8 Submission

## Question 1: Complete Practice Exercise

## Practice 1:

```
1: aayushmas@Linux: ~
14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$ 2: aayushmas@Linux: ~
15 listx:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$ aayushmas@Linux:~$ cat /etc/passwd
16 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$ root:x:0:0:root:/root:/bin/bash
17 _apt:x:42:65534:/nonexistent:/usr/sbin/nologin$ daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
18 nobody:x:65534:65534:/nonexistent:/usr/sbin/nologin$ bin:x:2:2:bin:/bin:/usr/sbin/nologin
19 systemd-networkd:x:998:998:systemd Network Management:/:/usr/sbin/nologin$ sysx:3:3:sys:/dev:/usr/sbin/nologin
20 dhcpcd:x:100:65534:DHCP Client Daemon:/usr/lib/dhcpcd:/bin/false$ syncx:4:65534:sync:/bin:/bin/sync
21 tssx:101:103:TPM software stack:/var/lib/tpm:/bin/false$ gamesx:5:60:games:/usr/games:/usr/sbin/nologin
22 systemd-timesyncd:x:991:991:system Time Synchronization:/:/usr/sbin/nologin manx:6:12:man:/var/cache/man:/usr/sbin/nologin
in$ lpx:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
23 messagebus:x:990:990:System Message Bus:/nonexistent:/usr/sbin/nologin$ mailx:8:8:mail:/var/mail:/usr/sbin/nologin
24 dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin$ newsx:9:9:news:/var/spool/news:/usr/sbin/nologin
25 avahi:x:102:107:Avahi mDNS daemon:/run/avahi-daemon:/usr/sbin/nologin$ uucpx:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
26 speech-dispatcher:x:103:29:Speech Dispatcher:/run/speech-dispatcher:/bin/ proxyx:13:13:proxy:/bin:/usr/sbin/nologin
false$ www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
27 usbmux:x:104:46:usbmux daemon:/var/lib/usbmux:/usr/sbin/nologin$ backupx:34:34:backup:/var/backups:/usr/sbin/nologin
28 cups-pk-helper:x:105:108:user for cups-pk-helper service:/nonexistent:/us listx:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
r/sbin/nologin$ ircx:39:39:ircd:/run/ircd:/usr/sbin/nologin
29 fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/_aptx:42:65534:/nonexistent:/usr/sbin/nologin
nologinx: non-existent:/usr/sbin/nologin
30 geoclue:x:106:110::/var/lib/geoclue:/usr/sbin/nologin$ nobody:x:65534:65534:/nonexistent:/usr/sbin/nologin
31 gnome-remote-desktop:x:988:988:GNOME Remote Desktop:/var/lib/gnome-remote$ systemd-networkd:x:998:998:systemd Network Management:/:/usr/sbin/nologin
-desktop:/usr/sbin/nologin$ dhcpcd:x:100:65534:DHCP Client Daemon:/usr/lib/dhcpcd:/bin/false
32 saned:x:107:111:/var/lib/saned:/usr/sbin/nologin$ tssx:101:103:TPM software stack:/var/lib/tpm:/bin/false
33 polkitd:x:987:987:User for polkitd:/:/usr/sbin/nologin$ systemd-timesyncd:x:991:991:system Time Synchronization:/:/usr/sbin/nologin
34 rtkit:x:108:112:RealtimeKit:/proc:/usr/sbin/nologin$ messagebusx:990:990:System Message Bus:/nonexistent:/usr/sbin/nologin
35 colord:x:109:113:colord colour management daemon:/var/lib/colord:/usr/sbi dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
n/nologinx: avahi:x:102:107:Avahi mDNS daemon:/run/avahi-daemon:/usr/sbin/nologin
36 Debian-gdm:x:110:114:Gnome Display Manager:/var/lib/gdm3:/bin/false$ speech-dispatcher:x:103:29:Speech Dispatcher:/run/speech-dispatcher:/bin/false
37 aayushmas:x:1000:1000:aayushmas,,,:/home/aayushmas:/bin/bash$ usbmux:x:104:46:usbmux daemon:/var/lib/usbmux:/usr/sbin/nologin
38 _flatpak:x:111:115:Flatpak system-wide installation helper:/nonexistent:/ cups-pk-helper:x:105:108:user for cups-pk-helper service:/nonexistent:/usr/sbin/nologin
usr/sbin/nologin$ _flatpak:x:111:115:Flatpak system-wide installation helper:/nonexistent:/usr/sbin/nologin
39 vboxadd:x:997:1::/var/run/vboxadd:/bin/false$ fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin
aayushmas@Linux:~$ head -n 5 /etc/passwd gne-remote-desktop:x:988:988:GNOME Remote Desktop:/var/lib/gnome-remote-deskt
root:x:0:0:root:/root:/bin/bash op:/usr/sbin/nologin
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin saned:x:107:111:/var/lib/saned:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin polkitd:x:987:987:User for polkitd:/:/usr/sbin/nologin
sysx:3:3:sys:/dev:/usr/sbin/nologin rtkit:x:108:112:RealtimeKit:/proc:/usr/sbin/nologin
syncx:4:65534:sync:/bin:/bin/sync colord:x:109:113:colord colour management daemon:/var/lib/colord:/usr/sbin/nologin
colorxd:x:109:113:colord colour management daemon:/var/lib/colord:/usr/sbin/nologin
Debian-gdm:x:110:114:Gnome Display Manager:/var/lib/gdm3:/bin/false aayushmas:x:1000:1000:aayushmas,,,:/home/aayushmas:/bin/bash
colorxd:x:109:113:colord colour management daemon:/var/lib/colord:/usr/sbin/nologin _flatpak:x:111:115:Flatpak system-wide installation helper:/nonexistent:/usr/sbin/nologin
in:Debian-gdm:x:110:114:Gnome Display Manager:/var/lib/gdm3:/bin/false aayushmas:x:1000:1000:aayushmas,,,:/home/aayushmas:/bin/bash
aayushmas:x:1000:1000:aayushmas,,,:/home/aayushmas:/bin/bash _flatpak:x:111:115:Flatpak system-wide installation helper:/nonexistent:/usr/sbin/nologin
in:vboxadd:x:997:1::/var/run/vboxadd:/bin/false aayushmas@Linux:~$ tac /etc/passwd
vboxadd:x:997:1::/var/run/vboxadd:/bin/false _flatpak:x:111:115:Flatpak system-wide installation helper:/nonexistent:/usr/sbin/nologin
vboxadd:x:997:1::/var/run/vboxadd:/bin/false aayushmas:x:1000:1000:aayushmas,,,:/home/aayushmas:/bin/bash
aayushmas@Linux:~$ cat -n ~/Documents/sample_files/Txt/dracula.txt Debian-gdm:x:110:114:Gnome Display Manager:/var/lib/gdm3:/bin/false
```

## Practice 2:

1: aayushmas@Linux: ~ \$ cut -d ':' -f1 /etc/passwd  
root  
daemon  
bin  
sys  
sync  
games  
man  
lp  
mail  
news  
uucp  
proxy  
www-data  
backup  
list  
irc  
\_apt  
nobody  
systemd-network

2: aayushmas@Linux: ~ \$ cut -d ':' -f1,6 /etc/passwd  
root:/root  
daemon:/usr/sbin  
bin:/bin  
sys:/dev  
sync:/bin  
games:/usr/games  
man:/var/cache/man  
lp:/var/spool/lpd  
mail:/var/mail  
news:/var/spool/news  
uucp:/var/spool/uucp  
proxy:/bin  
www-data:/var/www  
backup:/var/backups  
list:/var/list  
irc:/run/ircd  
\_apt:/nonexistent  
nobody:/nonexistent  
systemd-network:/

3: aayushmas@Linux: ~ \$ cut -d ';' -f1,4 --output-delimiter=" " ~/Documents/sample\_files/Csv/cereal.csv  
name calories = calories  
String calories = Int  
100% Bran calories = 70  
100% Natural Bran calories = 120  
All-Bran calories = 70  
All-Bran with Extra Fiber calories = 50  
Almond Delight calories = 110  
Apple Cinnamon Cheerios calories = 110  
Apple Jacks calories = 110  
Basic 4 calories = 130  
Bran Chex calories = 90  
Bran Flakes calories = 90  
Cap'n'Crunch calories = 120  
Cheerios calories = 110  
Cinnamon Toast Crunch calories = 120  
Clusters calories = 110  
Cocoa Puffs calories = 110  
Corn Chex calories = 110  
Corn Flakes calories = 100

4: aayushmas@Linux: ~ \$ cut -d ';' -f1 ~/Documents/sample\_files/Csv/cereal.csv  
name  
String  
100% Bran  
100% Natural Bran  
All-Bran  
All-Bran with Extra Fiber  
Almond Delight  
Apple Cinnamon Cheerios  
Apple Jacks  
Basic 4  
Bran Chex  
Bran Flakes  
Cap'n'Crunch  
Cheerios  
Cinnamon Toast Crunch  
Clusters  
Cocoa Puffs  
Corn Chex  
Corn Flakes

```
1: aayushmas@Linux: ~
aayushmas@Linux:~$ cut -d ':' -f 1,6,7 --output-delimiter=" > "/etc/passwd
root > /root > /bin/bash
daemon > /usr/sbin > /usr/sbin/nologin
bin > /bin > /usr/sbin/nologin
sys > /dev > /usr/sbin/nologin
sync > /bin > /bin/sync
games > /usr/games > /usr/sbin/nologin
man > /var/cache/man > /usr/sbin/nologin
lp > /var/spool/lpd > /usr/sbin/nologin
mail > /var/mail > /usr/sbin/nologin
news > /var/spool/news > /usr/sbin/nologin
uucp > /var/spool/uucp > /usr/sbin/nologin
proxy > /bin > /usr/sbin/nologin
www-data > /var/www > /usr/sbin/nologin
backup > /var/backups > /usr/sbin/nologin
list > /var/list > /usr/sbin/nologin
irc > /run/ircd > /usr/sbin/nologin
_apt > /nonexistent > /usr/sbin/nologin
nobody > /nonexistent > /usr/sbin/nologin
systemd-network > / > /usr/sbin/nologin
dhcpcd > /usr/lib/dhcpcd > /bin/false
tss > /var/lib/tpm > /bin/false
systemd-timesync > / > /usr/sbin/nologin
messagebus > /nonexistent > /usr/sbin/nologin
dnsmasq > /var/lib/misc > /usr/sbin/nologin
avahi > /run/avahi-daemon > /usr/sbin/nologin
speech-dispatcher > /run/speech-dispatcher > /bin/false
usbmux > /var/lib/usbmux > /usr/sbin/nologin
cups-pk-helper > /nonexistent > /usr/sbin/nologin
fwupd-refresh > /var/lib/fwupd > /usr/sbin/nologin
geoclue > /var/lib/geoclue > /usr/sbin/nologin
gnome-remote-desktop > /var/lib/gnome-remote-desktop > /usr/sbin/nologin
saned > /var/lib/saned > /usr/sbin/nologin
polkitd > / > /usr/sbin/nologin
rtkit > /proc > /usr/sbin/nologin
colord > /var/lib/colord > /usr/sbin/nologin
Debian-gdm > /var/lib/gdm3 > /bin/false
aayushmas > /home/aayushmas > /bin/bash
_flatpak > /nonexistent > /usr/sbin/nologin
vboxadd > /var/run/vboxadd > /bin/false
aayushmas@Linux:~$
```

Practice 3:

```

1: aayushmas@Linux: ~/Documents/sample_files/Csv
aayushmas@Linux:~$ cd Documents/
aayushmas@Linux:~/Documents$ ls
AlphaProjectBackup myGitConfig.txt submission
'budu teaching.txt' sample_files todo.md
aayushmas@Linux:~/Documents$ cd sample_files/
aayushmas@Linux:~/Documents/sample_files$ ls
Code Csv Json Markdown Toml Xml
Config Html Lst Rc Txt Yml
aayushmas@Linux:~/Documents/sample_files$ cd Csv/
aayushmas@Linux:~/Documents/sample_files/Csv$ sort cars.csv
AMC Ambassador Brougham;13.0;8;360.0;175.0;3821.;11.0;73;US
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
AMC Ambassador SST;17.0;8;304.0;150.0;3672.;11.5;72;US
AMC Concord;19.4;6;232.0;90.00;3210.;17.2;78;US
AMC Concord;24.3;4;151.0;90.00;3003.;20.1;80;US
AMC Concord d/l;18.1;6;258.0;120.0;3410.;15.1;78;US
AMC Concord DL;23.0;4;151.0;0;3035.;20.5;82;US
AMC Concord DL 6;20.2;6;232.0;90.00;3265.;18.2;79;US
AMC Gremlin;18.0;6;232.0;100.0;2789.;15.0;73;US
AMC Gremlin;19.0;6;232.0;100.0;2634.;13.0;71;US
AMC Gremlin;20.0;6;232.0;100.0;2914.;16.0;75;US
AMC Gremlin;21.0;6;199.0;90.00;2648.;15.0;70;US
AMC Hornet;18.0;6;199.0;97.00;2774.;15.5;70;US
AMC Hornet;18.0;6;232.0;100.0;2945.;16.0;73;US
AMC Hornet;19.0;6;232.0;100.0;2901.;16.0;74;US
AMC Hornet;22.5;6;232.0;90.00;3085.;17.6;76;US
AMC Hornet Sportabout (sw);18.0;6;258.0;110.0;2962.;13.5;71;US
AMC Matador;14.0;8;304.0;150.0;3672.;11.5;73;US

2: aayushmas@Linux: ~/Documents/sample_files/Csv
aayushmas@Linux:~$ cd Documents/
aayushmas@Linux:~/Documents$ cd sample_files/
aayushmas@Linux:~/Documents/sample_files$ cd Csv/
aayushmas@Linux:~/Documents/sample_files/Csv$ sort -o sorted_cars.csv cars.csv
aayushmas@Linux:~/Documents/sample_files/Csv$ wc -l sorted_cars.csv
408 sorted_cars.csv
aayushmas@Linux:~/Documents/sample_files/Csv$ wc -m sorted_cars.csv
22663 sorted_cars.csv
aayushmas@Linux:~/Documents/sample_files/Csv$ 

```

## Question 2: Challenge

```

1: aayushmas@Linux: ~
aayushmas@Linux:~$ curl -s https://cis106.com/assets/scripts/chal8.sh | bash
[INFO] Generating 100 log entries in access.log...
[SUCCESS] Access.log created successfully. Location: /home/aayushmas/access.log
aayushmas@Linux:~$ cat -n ~access.log
  1 2025-02-21 15:37:23 Spike /admin DENIED
  2 2025-12-17 14:48:07 Haruka /dashboard DENIED
  3 2025-12-25 00:34:46 Rize /logout SUCCESS
  4 2025-04-01 17:37:57 Haruka /dashboard FAIL
  5 2025-11-23 02:25:18 Walter /upload SUCCESS
  6 2025-10-07 02:23:08 Kei /reset FAIL
  7 2025-01-09 05:10:38 Jet /dashboard FAIL
  8 2025-09-21 21:43:09 Kei /upload FAIL
  9 2025-08-15 07:51:59 Seras /upload FAIL
 10 2025-01-10 00:08:32 Edward /upload SUCCESS
 11 2025-12-08 03:22:52 Arisu /download SUCCESS
 12 2025-06-15 14:54:42 Asimov /logout DENIED
 13 2025-03-19 06:44:58 Spike /reset FAIL
 14 2025-08-17 06:56:17 Walter /admin DENIED
 15 2025-06-05 02:23:15 Kei /reset SUCCESS
 16 2025-02-01 04:33:58 Kei /settings DENIED
 17 2025-08-18 21:08:07 Walter /download FAIL
 18 2025-07-19 00:03:46 Annie /login DENIED
 19 2025-08-28 01:39:13 Annie /login DENIED
 20 2025-06-05 23:24:35 Julia /download DENIED
 21 2025-02-01 02:29:16 Ein /settings SUCCESS
 22 2025-08-18 21:35:41 Eren /download DENIED
 23 2025-01-08 02:49:41 Ein /login DENIED
 24 2025-05-16 08:45:25 Honami /404 SUCCESS
 25 2025-01-22 01:19:52 Touko /logout SUCCESS
 26 2025-01-05 11:21:16 Annie /admin DENIED
 27 2025-12-18 06:39:23 Kei /download DENIED
 28 2025-10-06 04:29:27 Spike /dashboard DENIED
 29 2025-02-16 01:25:28 Honami /upload FAIL
 30 2025-02-11 23:16:09 Seras /404 FAIL
 31 2025-08-14 19:41:09 Walter /dashboard FAIL
 32 2025-06-23 01:50:37 Kei /download DENIED
 33 2025-04-13 16:46:04 Kei /download SUCCESS
 34 2025-02-01 05:38:29 Spike /reset SUCCESS
 35 2025-02-01 09:02:00 Asimov /logout FAIL
 36 2025-07-27 13:26:16 Spike /settings DENIED
 37 2025-05-11 20:27:58 Asimov /settings DENIED
 38 2025-04-28 05:02:54 Seras /logout FAIL
 39 2025-02-19 01:59:04 Rei /logout SUCCESS
 40 2025-01-05 22:33:07 Kei /logout FAIL
 41 2025-12-20 08:01:29 Eren /dashboard DENIED
 42 2025-12-01 21:43:20 Ein /login DENIED

3: aayushmas@Linux: ~
aayushmas@Linux:~$ tail -n 1 ~access.log
55 2025-01-15 12:10:18 Seras /dashboard DENIED
56 2025-08-18 08:55:03 Jet /reset SUCCESS
57 2025-08-09 22:34:35 Shinji /logout DENIED
58 2025-03-02 15:04:28 Shinji /logout FAIL
59 2025-11-14 17:49:41 Walter /download FAIL
60 2025-06-24 08:35:05 Ken /settings FAIL
61 2025-09-27 20:12:31 Honami /404 DENIED
62 2025-04-14 14:26:34 Shinji /download SUCCESS
63 2025-07-04 05:06:08 Walter /settings FAIL
64 2025-02-09 14:39:22 Edward /login FAIL
65 2025-07-04 22:20:50 Ken /settings FAIL
66 2025-01-07 17:41:24 Arisu /dashboard SUCCESS
67 2025-12-01 08:57:09 Eren /admin FAIL
68 2025-02-08 13:37:38 Ein /reset DENIED
69 2025-04-20 01:25:16 Julia /reset FAIL
70 2025-07-13 14:46:01 Haruka /settings SUCCESS
71 2025-09-02 23:18:28 Rei /upload SUCCESS
72 2025-09-27 21:38:50 Asimov /download SUCCESS
73 2025-03-17 21:21:58 Spike /logout SUCCESS
74 2025-03-25 04:12:42 Shinji /login SUCCESS
75 2025-05-18 15:29:42 Edward /logout DENIED
76 2025-03-27 17:14:42 Annie /reset DENIED
77 2025-01-26 08:36:41 Spike /404 FAIL
78 2025-06-08 17:28:53 Ken /reset SUCCESS
79 2025-01-18 11:44:12 Honami /download SUCCESS
80 2025-05-16 21:15:24 Ken /logout DENIED
81 2025-12-07 10:42:51 Rei /upload DENIED
82 2025-05-11 21:21:54 Edward /reset FAIL
83 2025-09-17 03:06:00 Honami /dashboard DENIED
84 2025-06-28 06:45:26 Spike /admin DENIED
85 2025-01-19 10:38:52 Spike /upload SUCCESS
86 2025-08-06 11:22:05 Julia /404 FAIL
87 2025-09-13 13:48:14 Arisu /logout DENIED
88 2025-08-21 23:47:22 Faye /download DENIED
89 2025-06-10 08:47:37 Edward /logout FAIL
90 2025-07-01 07:50:02 Arisu /admin SUCCESS
91 2025-09-01 06:34:58 Shinji /settings FAIL
92 2025-05-11 14:51:49 Faye /reset DENIED
93 2025-11-26 16:24:12 Ken /dashboard FAIL
94 2025-04-12 10:41:24 Annie /login FAIL
95 2025-04-10 12:01:29 Haruka /404 DENIED
96 2025-12-18 08:58:37 Eren /download FAIL
97 2025-03-19 09:08:34 Shinji /logout DENIED
98 2025-01-23 00:25:22 Rei /reset SUCCESS
99 2025-12-02 12:13:36 Seras /settings DENIED
100 2025-11-01 16:34:10 Ein /upload DENIED

aayushmas@Linux:~$ 

```

```
1/1 + 9 Tiling aayu...@Linux ~ 2: aayu...@Linux ~ 3: aayu...@Linux ~ 4: aayu...@Linux ~ 5: aayu...@Linux ~ 6: aayu...@Linux ~ 7: aayu...@Linux ~ 8: aayu...@Linux ~ 9: aayu...@Linux ~
```

aayu...@Linux:~\$ cut -d " " -f3 ~/access.log

Spike  
Haruka  
Rize  
Haruka  
Walter  
Ken  
Jet  
Kei  
Seras  
Edward  
Arisu  
Asimov  
Spike  
Walter  
Kei  
Annie  
Walter  
Annie  
Annie  
Julia  
Ein  
Eren  
Ein  
Honami  
Touka  
Annie  
Kei  
Spike  
Honami  
Seras  
Walter  
Kei  
Kei  
Spike  
Asimov  
Spike  
Asimov  
Seras  
Rei  
Kei  
Eren  
Ein  
Ein  
Edward  
Ein  
Walter  
Rize

aayu...@Linux:~\$ sort -k3 -o sorted\_access\_log\_by\_uname.log access.log

aayu...@Linux:~\$ sort -k3 -c sorted\_access\_log\_by\_uname.log

aayu...@Linux:~\$ cat sorted\_access\_log\_by\_uname.log

2025-01-05 11:21:16 Annie /admin DENIED  
2025-07-19 00:03:46 Annie /Login DENIED  
2025-08-28 01:39:13 Annie /Login DENIED  
2025-04-12 10:41:24 Annie /Login FAIL  
2025-03-27 17:14:42 Annie /reset DENIED  
2025-02-04 04:33:58 Annie /settings DENIED  
2025-07-01 07:50:02 Arisu /admin SUCCESS  
2025-01-07 17:41:24 Arisu /dashboard SUCCESS  
2025-12-07 03:22:52 Arisu /download SUCCESS  
2025-09-13 13:48:14 Arisu /logout DENIED  
2025-09-27 21:38:50 Asimov /download SUCCESS  
2025-05-27 16:43:06 Asimov /login FAIL  
2025-06-15 14:54:42 Asimov /logout DENIED  
2025-02-01 09:02:06 Asimov /logout FAIL  
2025-05-11 20:27:58 Asimov /settings DENIED  
2025-02-09 14:39:22 Edward /Login FAIL  
2025-05-18 15:29:42 Edward /Logout DENIED  
2025-06-18 08:47:37 Edward /Logout FAIL  
2025-05-11 21:21:54 Edward /reset FAIL  
2025-02-03 19:51:00 Edward /settings FAIL  
2025-01-10 00:08:32 Edward /upload SUCCESS  
2025-12-21 01:46:11 Ein /admin SUCCESS  
2025-12-03 20:20:08 Ein /dashboard FAIL  
2025-01-06 00:49:41 Ein /login DENIED  
2025-12-01 21:43:20 Ein /Login DENIED  
2025-02-08 13:37:38 Ein /reset DENIED  
2025-01-27 10:53:31 Ein /settings FAIL  
2025-02-09 02:29:16 Ein /settings SUCCESS  
2025-11-16 16:34:10 Ein /upload DENIED  
2025-12-09 08:57:09 Eren /admin FAIL  
2025-12-20 08:01:29 Eren /dashboard DENIED  
2025-08-18 21:35:41 Eren /download DENIED  
2025-12-18 08:58:37 Eren /download FAIL  
2025-09-21 23:47:22 Faye /download DENIED  
2025-05-11 14:51:49 Faye /reset DENIED  
2025-12-14 13:25:50 Faye /settings FAIL  
2025-04-10 12:01:29 Haruka /404 DENIED  
2025-12-17 14:48:07 Haruka /dashboard DENIED  
2025-04-01 17:37:57 Haruka /dashboard FAIL  
2025-07-03 14:46:01 Haruka /settings SUCCESS  
2025-09-27 20:12:31 Honami /404 DENIED  
2025-05-11 08:45:25 Honami /404 SUCCESS  
2025-09-17 03:06:00 Honami /dashboard DENIED  
2025-01-18 11:44:12 Honami /download SUCCESS  
2025-02-16 01:25:28 Honami /upload FAIL

aayu...@Linux:~\$ sort -k4 -o sorted\_access\_log\_by\_endpoint.log access.log

aayu...@Linux:~\$ cat sorted\_access\_log\_by\_endpoint.log

2025-04-10 12:01:29 Haruka /404 DENIED  
2025-09-27 20:12:31 Honami /404 DENIED  
2025-01-26 08:36:41 Spike /404 FAIL  
2025-02-11 23:16:09 Seras /404 FAIL  
2025-08-06 11:22:05 Julia /404 FAIL  
2025-05-16 08:45:25 Honami /404 SUCCESS  
2025-01-05 11:21:16 Annie /admin DENIED  
2025-02-21 15:37:23 Spike /admin DENIED  
2025-06-28 06:45:26 Spike /admin DENIED  
2025-08-17 06:56:17 Walter /admin DENIED  
2025-12-01 08:57:09 Eren /admin FAIL  
2025-07-01 07:50:02 Arisu /admin SUCCESS  
2025-12-21 01:46:11 Ein /admin SUCCESS  
2025-01-15 12:10:18 Seras /dashboard DENIED  
2025-09-17 03:06:00 Honami /dashboard DENIED  
2025-10-06 04:29:27 Spike /dashboard DENIED  
2025-12-05 16:45:03 Rize /dashboard DENIED  
2025-12-17 14:48:07 Haruka /dashboard DENIED  
2025-12-20 08:01:29 Eren /dashboard DENIED  
2025-01-09 05:10:38 Jee /dashboard FAIL  
2025-04-01 17:37:57 Haruka /dashboard FAIL  
2025-08-14 19:41:09 Walter /dashboard FAIL  
2025-11-26 16:24:12 Kei /dashboard FAIL  
2025-12-03 20:20:08 Ein /dashboard FAIL  
2025-01-07 17:41:24 Arisu /dashboard SUCCESS  
2025-11-12 14:10:03 Julia /dashboard SUCCESS  
2025-12-20 01:02:51 Kei /dashboard SUCCESS  
2025-06-05 23:24:35 Julian /download DENIED  
2025-06-23 01:50:37 Kei /download DENIED  
2025-08-18 21:35:41 Eren /download DENIED  
2025-08-21 23:47:22 Faye /download DENIED  
2025-12-18 06:39:23 Kei /download DENIED  
2025-06-09 05:00:16 Walter /download FAIL  
2025-08-18 21:08:07 Walter /download FAIL  
2025-11-14 17:49:41 Walter /download FAIL  
2025-12-18 08:58:37 Eren /download FAIL

2025-01-18 11:44:12 Honami /download SUCCESS  
2025-04-13 16:46:04 Kei /download SUCCESS  
2025-04-14 14:26:34 Shinji /download SUCCESS  
2025-09-27 21:38:50 Asimov /download SUCCESS  
2025-10-17 20:33:46 Touka /download SUCCESS  
2025-12-08 03:22:52 Arisu /download SUCCESS  
2025-01-08 00:49:41 Ein /Login DENIED  
2025-07-19 00:03:46 Annie /Login DENIED  
2025-08-28 01:39:13 Annie /Login DENIED  
2025-12-01 21:43:20 Ein /Login DENIED