

# Week Report 7

## Practice 1

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Nov 9 16:17
Tilix: nmmclennon@CIS106: ~
1: nmmclennon@CIS106: ~
nmmclennon@CIS106:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mail Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:usr/sbin/nologin
systemd-timesync:x:996:996:systemd Time Synchronization:/:usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:101::/nonexistent:/usr/sbin/nologin
syslog:x:102:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:991:991:systemd Resolver:/:usr/sbin/nologin
uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false
systemd-oom:x:990:990:systemd Userspace OOM Killer:/:usr/sbin/nologin
kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
whoopsie:x:107:109::/nonexistent:/bin/false
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
avahi:x:108:111:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
tcpdump:x:109:112::/nonexistent:/usr/sbin/nologin
```

```
nmmclennon@CIS106:~$ tac /etc/passwd
nmmclennon:x:1000:1000:nmmclennon:/home/nmmclennon:/bin/bash
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-initial-setup:x:119:65534::/run/gnome-initial-setup:/bin/false
colord:x:118:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin
rtkit:x:117:119:RealtimeKit,,,:/proc:/usr/sbin/nologin
polkitd:x:987:987:User for polkitd:/:usr/sbin/nologin
gnome-remote-desktop:x:988:988:GNOME Remote Desktop:/var/lib/gnome-remote-desktop:/usr/sbin/nologin
hplip:x:116:7:HPLIP system user,,,:/run/hplip:/bin/false
cups-browsed:x:115:114::/nonexistent:/usr/sbin/nologin
geoclue:x:114:117::/var/lib/geoclue:/usr/sbin/nologin
saned:x:113:116::/var/lib/saned:/usr/sbin/nologin
fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin
cups-pk-helper:x:112:114:user for cups-pk-helper service,,,:/nonexistent:/usr/sbin/nologin
speech-dispatcher:x:111:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
sssd:x:110:113:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
tcpdump:x:109:112::/nonexistent:/usr/sbin/nologin
avahi:x:108:111:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
whoopsie:x:107:109::/nonexistent:/bin/false
kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
systemd-oom:x:990:990:systemd Userspace OOM Killer:/:usr/sbin/nologin
tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
uuidd:x:103:103::/run/uuidd:/usr/sbin/nologin
```

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ cat -nE /etc/passwd  
 1 root:x:0:0:root:/root:/bin/bash$  
 2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$  
 3 bin:x:2:2:bin:/bin:/usr/sbin/nologin$  
 4 sys:x:3:3:sys:/dev:/usr/sbin/nologin$  
 5 sync:x:4:65534:sync:/bin:/bin/sync$  
 6 games:x:5:60:games:/usr/games:/usr/sbin/nologin$  
 7 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$  
 8 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$  
 9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$  
10 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$  
11 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$  
12 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$  
13 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$  
14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$  
15 list:x:38:38:Mailng List Manager:/var/list:/usr/sbin/nologin$  
16 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$  
17 _apt:x:42:65534:./nonexistent:/usr/sbin/nologin$  
18 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$  
19 systemd-network:x:998:998:systemd Network Management:./usr/sbin/nologin$  
20 systemd-timesync:x:996:996:systemd Time Synchronization:./usr/sbin/nologin$  
21 dhcpcd:x:100:65534:DHCP Client Daemon,,./usr/lib/dhcpcd:/bin/false$  
22 messagebus:x:101:101:./nonexistent:/usr/sbin/nologin$  
23 syslog:x:102:102:./nonexistent:/usr/sbin/nologin$  
24 systemd-resolve:x:991:991:systemd Resolver:./usr/sbin/nologin$
```

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ head -5 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
nmmclennon@CIS106:~$ |
```

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ tail -5 /etc/passwd  
colord:x:118:120:colord colour management daemon,,./var/lib/colord:/usr/sbin/nologin  
gnome-initial-setup:x:119:65534:./run/gnome-initial-setup:./bin/false  
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false  
nm-openvpn:x:121:122:NetworkManager OpenVPN,,./var/lib/openvpn/chroot:/usr/sbin/nologin  
nmmclennon:x:1000:1000:nmmclennon:/home/nmmclennon:/bin/bash  
nmmclennon@CIS106:~$ |
```

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ tail -1 /etc/passwd  
nmmclennon:x:1000:1000:nmmclennon:/home/nmmclennon:/bin/bash  
nmmclennon@CIS106:~$ |
```

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ head -1 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
nmmclennon@CIS106:~$ |
```

```
1: nmmclennon@CIS106: ~/Documents/Books  
“By your letter to Mina last night. I was in doubt, and then everything  
took a hue of unreality, and I did not know what to trust, even the  
evidence of my own senses. Not knowing what to trust, I did not know  
what to do; and so had only to keep on working in what had hitherto been  
the groove of my life. The groove ceased to avail me, and I mistrusted  
myself. Doctor, you don’t know what it is to doubt everything, even  
yourself. No, you don’t; you couldn’t with eyebrows like yours.” He  
seemed pleased, and laughed as he said:--  
  
“So! You are physiognomist. I learn more here with each hour. I am with  
so much pleasure coming to you to breakfast; and, oh, sir, you will  
pardon praise from an old man, but you are blessed in your wife.” I  
would listen to him go on praising Mina for a day, so I simply nodded  
and stood silent.  
  
“She is one of God’s women, fashioned by His own hand to show us men and  
other women that there is a heaven where we can enter, and that its  
light can be here on earth. So true, so sweet, so noble, so little an  
egoist--and that, let me tell you, is much in this age, so sceptical and  
selfish. And you, sir--I have read all the letters to poor Miss Lucy,  
and some of them speak of you, so I know you since some days from the  
knowing of others; but I have seen your true self since last night. You  
will give me your hand, will you not? And let us be friends for all our  
lives.”
```

## Practice 2

```
1: nmmclennon@CIS106: ~/Documents/Books ▾
```

```
nmmclennon@CIS106:~/Documents/Books$ 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
systemd-timesync
dhcpd
messagebus
syslog
systemd-resolve
uidd
usbmux
```

```
1: nmmclennon@CIS106: ~/Documents/Books ▾
```

```
nmmclennon@CIS106:~/Documents/Books$ 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:/
systemd-timesync:/
dhcpd:/usr/lib/dhcpd
messagebus:/nonexistent
syslog:/nonexistent
systemd-resolve:/
uidd:/run/uidd
usbmux:/var/lib/usbmux
```

```
1: nmmclennon@CIS106: ~/Documents/Books ∨  
nmmclennon@CIS106:~/Documents/Books$ cut -d":" -f1,6,7 --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  
systemd-timesync > / > /usr/sbin/nologin  
dhcpcd > /usr/lib/dhcpcd > /bin/false  
messagebus > /nonexistent > /usr/sbin/nologin  
syslog > /nonexistent > /usr/sbin/nologin  
systemd-resolve > / > /usr/sbin/nologin  
uidd > /run/uidd > /usr/sbin/nologin  
usbmux > /var/lib/usbmux > /usr/sbin/nologin
```

```
1: nmmclennon@CIS106: ~/Documents/Csv ∨  
nmmclennon@CIS106:~/Documents/Csv$ cut -d";" -f1 ~/Documents/Csv/cereal.csv  
Name,Calories,Sugar  
Frosted Flakes,110,11  
Cheerios,105,1  
Special K,120,4  
nmmclennon@CIS106:~/Documents/Csv$ |
```

```
1: nmmclennon@CIS106: ~/Documents/Csv ∨  
nmmclennon@CIS106:~/Documents/Csv$ cut -d";" -f1,4 --output-delimiter=" calories = " ~/Documents/Csv/cereal.csv  
Name,Calories,Sugar  
Frosted Flakes,110,11  
Cheerios,105,1  
Special K,120,4  
nmmclennon@CIS106:~/Documents/Csv$ |
```

## Practice 3

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ sort ~/Documents/Csv/cars.csv  
Car,Make,Model,Year  
Toyota,Camry,2020  
nmmclennon@CIS106:~$ sort /home/nmmclennon/Documents/Csv/cars.csv -o /home/nmmclennon/Documents/Csv/sorted_cars.csv  
nmmclennon@CIS106:~$ wc -l /home/nmmclennon/Documents/Csv/sorted_cars.csv  
2 /home/nmmclennon/Documents/Csv/sorted_cars.csv  
nmmclennon@CIS106:~$ wc -m /home/nmmclennon/Documents/Csv/sorted_cars.csv  
38 /home/nmmclennon/Documents/Csv/sorted_cars.csv  
nmmclennon@CIS106:~$ sed 's;/,/g' /home/nmmclennon/Documents/Csv/sorted_cars.csv -i  
nmmclennon@CIS106:~$ |
```

## Practice 4

```
1: nmmclennon@CIS106: ~  
nmmclennon@CIS106:~$ grep -in 'love' pride_and_prejudice.txt  
nmmclennon@CIS106:~$ grep -ic 'love' pride_and_prejudice.txt  
0  
nmmclennon@CIS106:~$ grep -iv 'love' pride_and_prejudice.txt  
Pride and Prejudice by Jane Austen  
nmmclennon@CIS106:~$ grep -io 'love' pride_and_prejudice.txt | wc -l  
0  
nmmclennon@CIS106:~$ grep '^Dracula' dracula.txt  
Dracula, jumping to his feet, said:--  
Dracula, as it may help me to understand. To-night he may talk of  
Dracula was speaking, there was that in his eyes and in his bearing  
Dracula." I suspected him, and determined to test his sincerity.  
Dracula we should go by Galatz, or at any rate through Bucharest, so I  
nmmclennon@CIS106:~$ cat /etc/passwd | grep -E "/bin/bash|/bin/sh" | wc -l  
2  
nmmclennon@CIS106:~$ cat /etc/passwd | grep -vE "/bin/bash|/bin/sh" | wc -l  
47  
nmmclennon@CIS106:~$ |
```