```
3
total 344
drwxr-xr-x 12 migueljrm95 migueljrm95 4096 Feb 4 18:38 .
drwxr-xr-x 4 root root 4096 Jan 28 19:09 .
drwxr-xr-x 4 root root
-rw----- 1 migueljrm95 migueljrm95
                                                        1710 Dec 18 13:45 .bash_history
 -rw-r--r-- 1 migueljrm95 migueljrm95
                                                         220 Dec 18 11:26 .bash_logout
-rw-r--r- 1 migueljrm95 migueljrm95
drwxr-xr-x 6 migueljrm95 migueljrm95
                                                        3771 Dec 18 11:26 .bashrc
drwxr-xr-x 6 migueljrm95 migueljrm95
-rw-r--r- 1 migueljrm95 migueljrm95
drwxr-xr-x 2 migueljrm95 migueljrm95
                                                        63 Dec 18 18:27 .gitconfig
4096 Dec 18 11:26 .landscape
drwx----- 5 migueljrm95 migueljrm95
                                                        4096 Dec 21 16:42 .local
-rw-r--r-- 1 migueljrm95 migueljrm95
drwxr-xr-x 12 migueljrm95 migueljrm95
                                                        0 Dec 18 11:26 .motd_shown
4096 Jan 27 17:14 .oh-my-zsh
 -rw-r--r-- 1 migueljrm95 migueljrm95 87565 Dec 18 14:44 .p10k.zsh
                                                         807 Dec 18 11:26 .profile
10 Dec 18 13:44 .shell.pre-oh-my-zsh
                1 migueljrm95 migueljrm95
1 migueljrm95 migueljrm95
 -rw-r--r--
drwxr-xr-x 3 migueljrm95 migueljrm95
                                                        4096 Dec 18 12:58 .sts4
-rw-r--r-- 1 migueljrm95 migueljrm95
                                                          0 Dec 18 12:01 .sudo_as_admin_successful
drwxr-xr-x 3 migueljrm95 migueljrm95
drwxr-xr-x 5 migueljrm95 migueljrm95
                                                        4096 Dec 18 12:58 .tooling
                                                        4096 Dec 18 12:24 .vscode-server
-rw-r--r-- 1 migueljrm95 migueljrm95 183 Dec 18 12:24 .wget-hsts
-rw-r--r-- 1 migueljrm95 migueljrm95 49006 Dec 18 13:34 .zcompdump
-rw-r--r-- 1 migueljrm95 migueljrm95 50531 Jan 27 17:14 .zcompdump-DESKTOP-OUP6HIH-5.8
 rw----- 1 migueljrm95 migueljrm95 24975 Feb 4 18:38 .zsh_history
                                                       4137 Dec 18 14:30 .zshrc
3548 Dec 18 13:42 .zshrc.pre-oh-my-zsh
                 1 migueljrm95 migueljrm95
1 migueljrm95 migueljrm95
 -rw-r--r--
 rw-r--r-- 1 migueljrm95 migueljrm95
 -rw-r--r-- 1 migueljrm95 migueljrm95
                                                          276 Jan 23 12:28 awards
```

2.

```
> touch perm1.

ls -l | grep perm1.
-rw-r--r-- 1 migueljrm95 migueljrm95 0 Feb 4 18:39 perm1.
```

3.

```
chmod 644 perm1.

chmod u=wr,a=r perm1.
```

4.

6.

```
> chmod u-w script1.sh

> cat script1.sh == "new line"
cat: script1.sh: Permission denied
```

It is not posible beacause we have not got permissions

7.



8.



```
#!/bin/bash
clear
who
new line
```

9.



[ Error reading script1.sh: Permission denied ]





16.

```
> touch systems/lucy && touch systems/charles

chmod o+wx systems/charles
```

17.

```
> chmod 564 systems/lucy
```

```
chmod u=rx,g=rw,o=w systems/lucy
```

18.

```
> sudo su
[sudo] password for migueljrm95:
root@DESKTOP-OUP6HIH:/home/migueljrm95#
```

root@DESKTOP-OUP6HIH:/home/migueljrm95# chown root systems/charles
root@DESKTOP-OUP6HIH:/home/migueljrm95#

```
$ su - migueljrm95
Password:
```

```
> chmod o-rx systems/charles chmod: changing permissions of 'systems/charles': Operation not permitted
```

It is not possible because the owner of the file is root now

19.

```
> sudo su
root@DESKTOP-OUP6HIH:/home/migueljrm95# chmod 777 systems/charles
root@DESKTOP-OUP6HIH:/home/migueljrm95#
```

```
> chmod uo=,g=rw systems/lucy

vim systems/lucy
```

~ "systems/lucy" [Permission Denied]

21.

> sudo su
root@DESKTOP-OUP6HIH:/home/migueljrm95# groupadd -g 2020 newgroup
root@DESKTOP-OUP6HIH:/home/migueljrm95# chown root:newgroup systems/lucy

22.

root@DESKTOP-OUP6HIH:/home/migueljrm95# usermod -g 2020 migueljrm95

root@DESKTOP-OUP6HIH:/home/migueljrm95# groups migueljrm95
migueljrm95 : newgroup adm dialout cdrom floppy sudo audio dip video plugdev netdev
root@DESKTOP-OUP6HIH:/home/migueljrm95# su - migueljrm95



23.

sudo su
root@DESKTOP-OUP6HIH:/home/migueljrm95# chmod a=r systems/lucy

24.

root@DESKTOP-OUP6HIH:/home/migueljrm95# chmod -R 744 systems

25.

root@DESKTOP-OUP6HIH:/home/migueljrm95# chown -R root systems