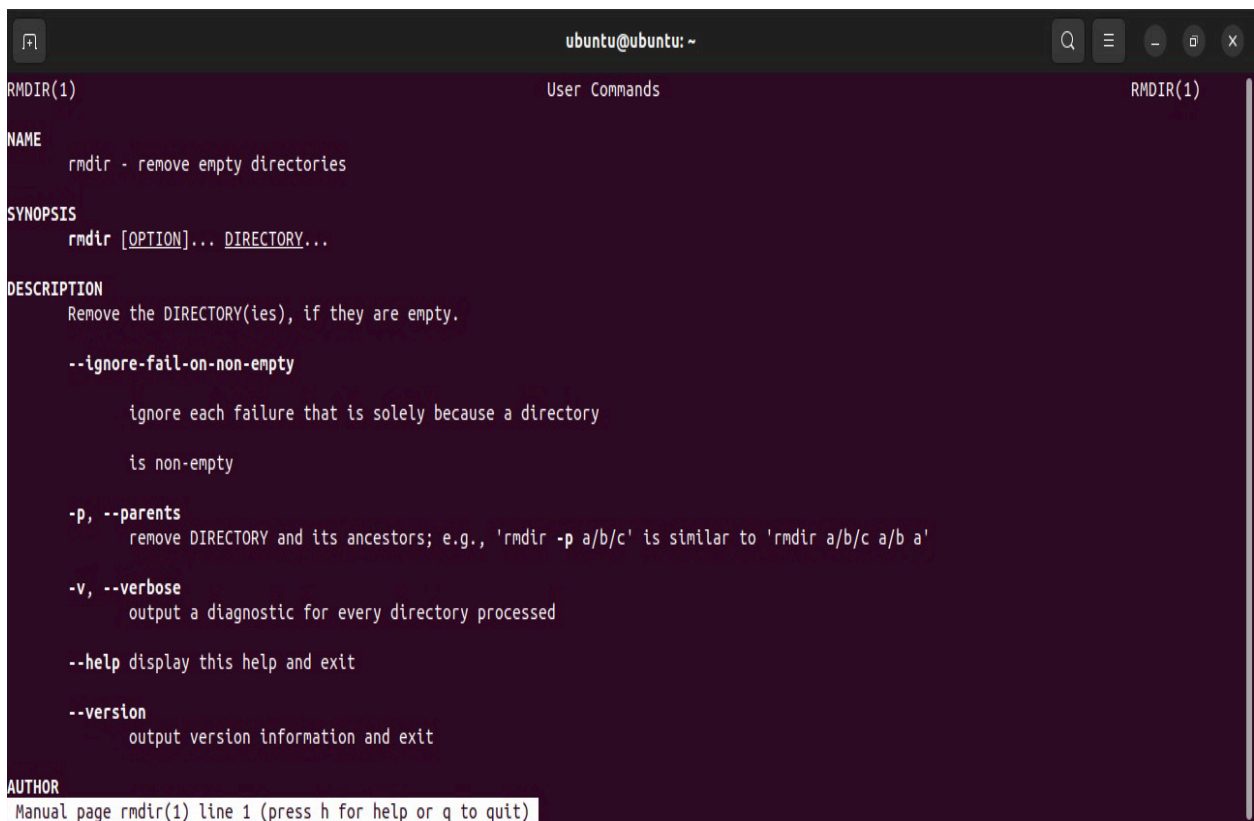


2. What is the difference between cat and more command?

⇒ Cat displays file contents. If the file is large the contents we will scroll. But More displays the contents page by page

3. What is the difference between rm and rmdir using man?



```
ubuntu@ubuntu: ~  
RMDIR(1) User Commands RMDIR(1)  
NAME  
    rmdir - remove empty directories  
SYNOPSIS  
    rmdir [OPTION]... DIRECTORY...  
DESCRIPTION  
    Remove the DIRECTORY(ies), if they are empty.  
    --ignore-fail-on-non-empty  
        ignore each failure that is solely because a directory  
        is non-empty  
    -p, --parents  
        remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b/c' is similar to 'rmdir a/b/c a/b a'  
    -v, --verbose  
        output a diagnostic for every directory processed  
    --help display this help and exit  
    --version  
        output version information and exit  
AUTHOR  
Manual page rmdir(1) line 1 (press h for help or q to quit)
```

```
ubuntu@ubuntu: ~  
RM(1) User Commands RM(1)  
NAME  
rm - remove files or directories  
SYNOPSIS  
rm [OPTION]... [FILE]...  
DESCRIPTION  
This manual page documents the GNU version of rm. rm removes each specified file. By default, it does not remove directories.  
If the -I or --interactive=once option is given, and there are more than three files or the -r, -R, or --recursive are given, then  
rm prompts the user for whether to proceed with the entire operation. If the response is not affirmative, the entire command is  
aborted.  
Otherwise, if a file is unwritable, standard input is a terminal, and the -f or --force option is not given, or the -i or --inter-  
active=always option is given, rm prompts the user for whether to remove the file. If the response is not affirmative, the file  
is skipped.  
OPTIONS  
Remove (unlink) the FILE(s).  
-f, --force  
ignore nonexistent files and arguments, never prompt  
-i  
prompt before every removal  
-I  
prompt once before removing more than three files, or when removing recursively; less intrusive than -i, while still giving  
protection against most mistakes  
Manual page rm(1) line 1 (press h for help or q to quit)
```

4. Create the following hierarchy under your home directory:

```
Ubuntu 64-bit (2) - VMware Workstation  
File Edit View VM Tabs Help  
Activities Terminal Aug 1 14:56  
ubuntu@ubuntu: ~/docs  
ubuntu@ubuntu:~$ mkdir -p dir1/dir11  
ubuntu@ubuntu:~$ cd dir1  
ubuntu@ubuntu:~/dir1$ mkdir dir12  
ubuntu@ubuntu:~/dir1$ cd dir11  
ubuntu@ubuntu:~/dir1/dir11$ touch file1  
ubuntu@ubuntu:~/dir1/dir11$ ls  
file1  
ubuntu@ubuntu:~/dir1/dir11$ cd ../  
ubuntu@ubuntu:~/dir1$ ls  
dir11 dir12  
ubuntu@ubuntu:~/dir1$ cd ../  
ubuntu@ubuntu:~$ touch docs/mycv  
ubuntu@ubuntu:~$ ls  
Desktop dir1 docs Documents Downloads Music Pictures Public snap Templates Videos  
ubuntu@ubuntu:~$ cd docs  
ubuntu@ubuntu:~/docs$ ls  
mycv  
ubuntu@ubuntu:~/docs$ cd ../  
ubuntu@ubuntu:~$ rm -r docs  
ubuntu@ubuntu:~$ ls  
Desktop dir1 Documents Downloads Music Pictures Public snap Templates Videos  
ubuntu@ubuntu:~$ touch docs/mycv  
touch: cannot touch 'docs/mycv': No such file or directory  
ubuntu@ubuntu:~$ mkdir docs  
ubuntu@ubuntu:~$ touch docs/mycv  
ubuntu@ubuntu:~$ cd docs  
ubuntu@ubuntu:~/docs$ ls  
mycv  
ubuntu@ubuntu:~/docs$
```

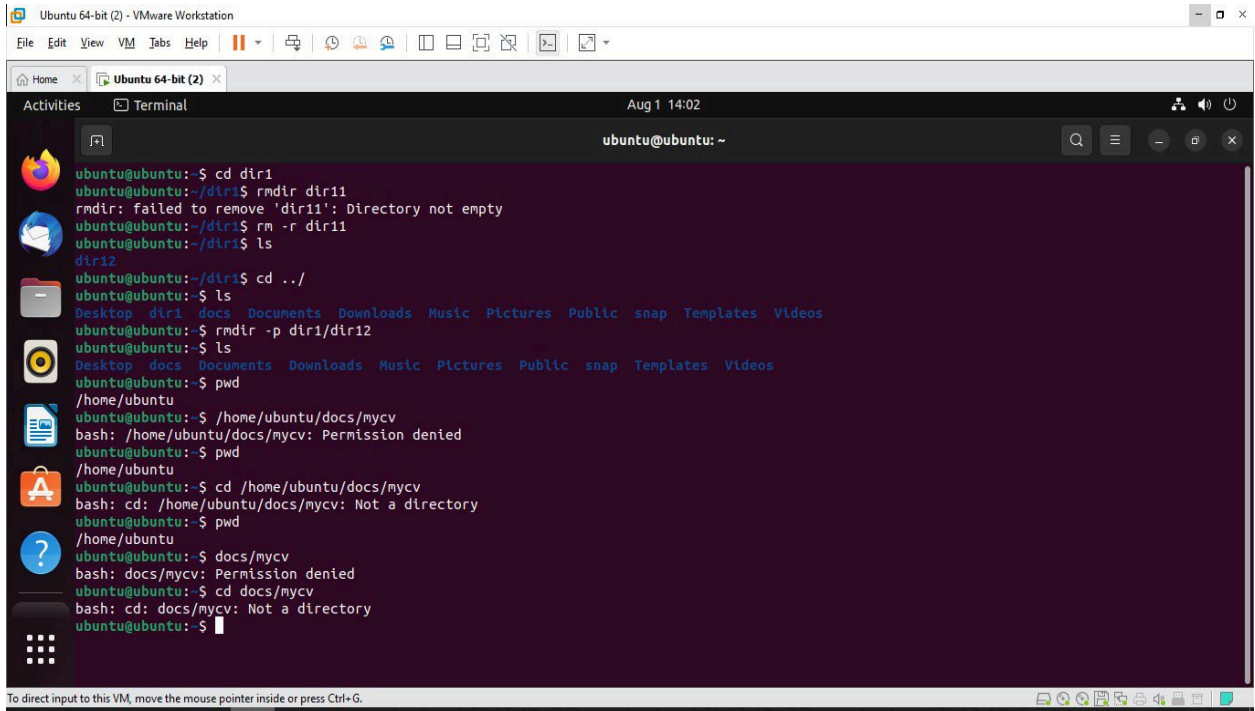
a. Remove dir11 in one-step. What did you notice? And how did you overcome that?

```
ubuntu@ubuntu: ~/dir1
ubuntu@ubuntu:~$ cd dir1
ubuntu@ubuntu:~/dir1$ rmdir dir11
rmdir: failed to remove 'dir11': Directory not empty
ubuntu@ubuntu:~/dir1$ rm -r dir11
ubuntu@ubuntu:~/dir1$ ls
dir12
ubuntu@ubuntu:~/dir1$
```

b. Then remove dir12 using `rmdir -p` command. State what happened to the hierarchy (Note: you are in your home directory).

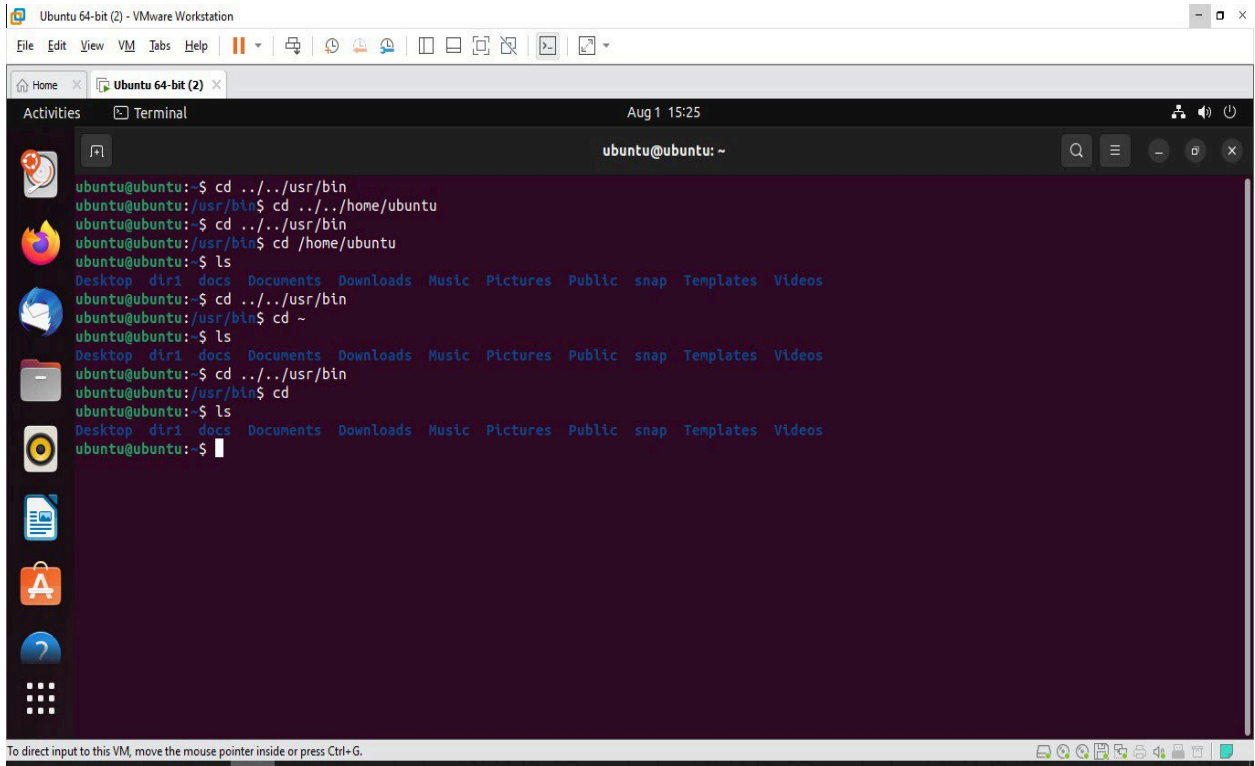
```
ubuntu@ubuntu: ~
ubuntu@ubuntu:~$ cd dir1
ubuntu@ubuntu:~/dir1$ rmdir dir11
rmdir: failed to remove 'dir11': Directory not empty
ubuntu@ubuntu:~/dir1$ rm -r dir11
ubuntu@ubuntu:~/dir1$ ls
dir12
ubuntu@ubuntu:~/dir1$ cd ../
ubuntu@ubuntu:~$ ls
Desktop dir1 docs Documents Downloads Music Pictures Public snap Templates Videos
ubuntu@ubuntu:~$ rmdir -p dir1/dir12
ubuntu@ubuntu:~$ ls
Desktop docs Documents Downloads Music Pictures Public snap Templates Videos
ubuntu@ubuntu:~$
```

c. The output of the command `pwd` was `/home/user`.
Write the absolute
and relative path for the file `mycv`

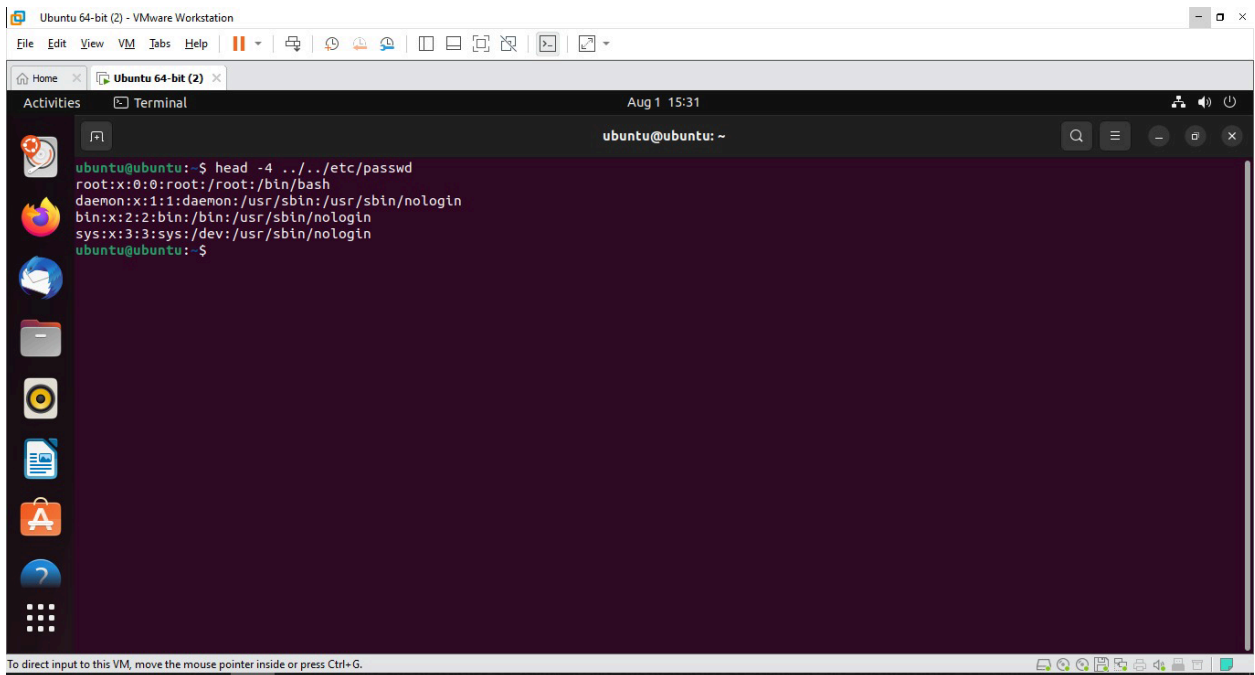


```
ubuntu@ubuntu:~$ cd dir1
ubuntu@ubuntu:~/dir1$ rmdir dir11
rmdir: failed to remove 'dir11': Directory not empty
ubuntu@ubuntu:~/dir1$ rm -r dir11
ubuntu@ubuntu:~/dir1$ ls
dir12
ubuntu@ubuntu:~/dir1$ cd ../
ubuntu@ubuntu:~$ ls
Desktop  dir1  docs  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
ubuntu@ubuntu:~$ rmdir -p dir1/dir12
ubuntu@ubuntu:~$ ls
Desktop  docs  Documents  Downloads  Music  Pictures  Public  snap  Templates  Videos
ubuntu@ubuntu:~$ pwd
/home/ubuntu
ubuntu@ubuntu:~$ /home/ubuntu/docs/mycv
bash: /home/ubuntu/docs/mycv: Permission denied
ubuntu@ubuntu:~$ pwd
/home/ubuntu
ubuntu@ubuntu:~$ cd /home/ubuntu/docs/mycv
bash: cd: /home/ubuntu/docs/mycv: Not a directory
ubuntu@ubuntu:~$ pwd
/home/ubuntu
ubuntu@ubuntu:~$ docs/mycv
bash: docs/mycv: Permission denied
ubuntu@ubuntu:~$ cd docs/mycv
bash: cd: docs/mycv: Not a directory
ubuntu@ubuntu:~$
```

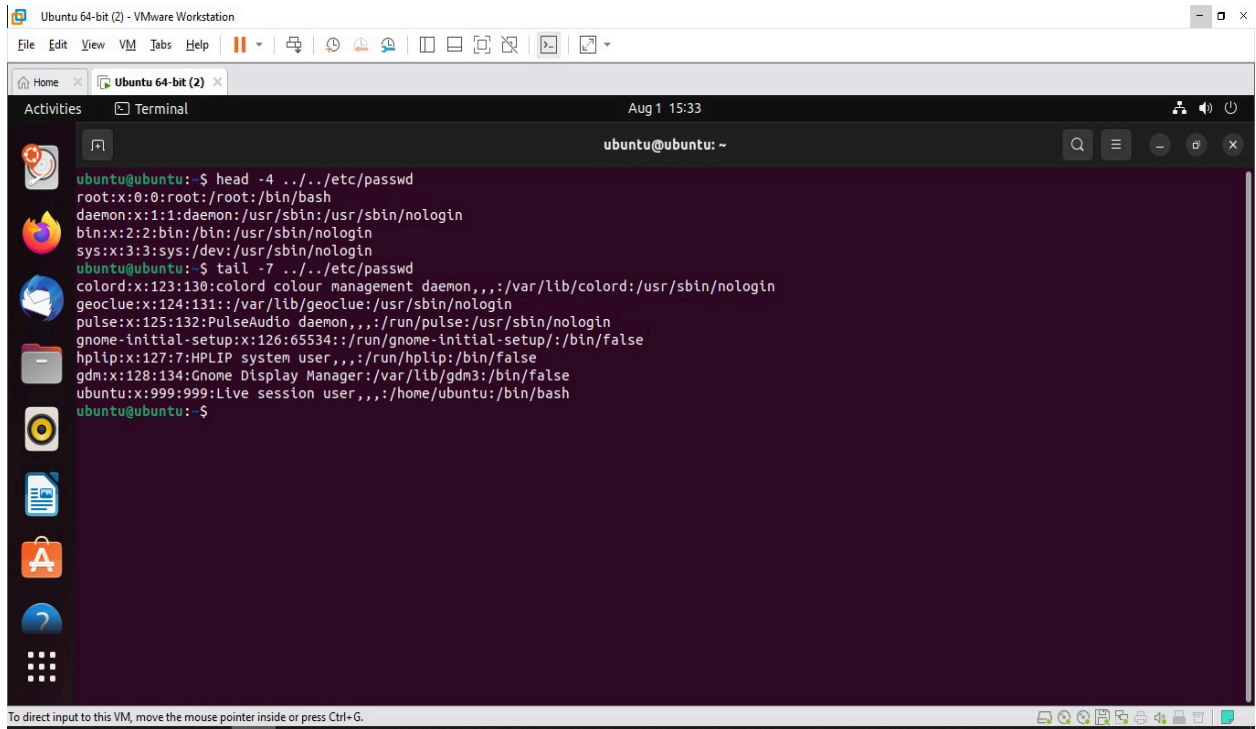
7. You are in `/usr/bin`, list four ways to go to your home directory



9. Display the first 4 lines of /etc/passwd



10.Display the last 7 lines of /etc/passwd



The screenshot shows a terminal window titled 'Ubuntu 64-bit (2) - VMware Workstation'. The terminal displays the output of the command `tail -7 /etc/passwd`, which lists the last seven entries from the `/etc/passwd` file. The output is as follows:

```
ubuntu@ubuntu:~$ head -4 ../../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
ubuntu@ubuntu:~$ tail -7 ../../etc/passwd
colord:x:123:130:colord colour management daemon,,:/var/lib/colord:/usr/sbin/nologin
geoclue:x:124:131:/:var/lib/geoclue:/usr/sbin/nologin
pulse:x:125:132:PulseAudio daemon,,:/run/pulse:/usr/sbin/nologin
gnome-initial-setup:x:126:65534:/:run/gnome-initial-setup:/bin/false
hplip:x:127:7:HPLIP system user,,:/run/hplip:/bin/false
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
ubuntu:x:999:999:Live session user,,:/home/ubuntu:/bin/bash
ubuntu@ubuntu:~$
```

The terminal window also shows the system date and time as 'Aug 1 15:33' and the prompt 'ubuntu@ubuntu: ~'. The VMware Workstation interface includes a menu bar (File, Edit, View, VM, Tabs, Help) and a toolbar with various icons for file operations and VM management.