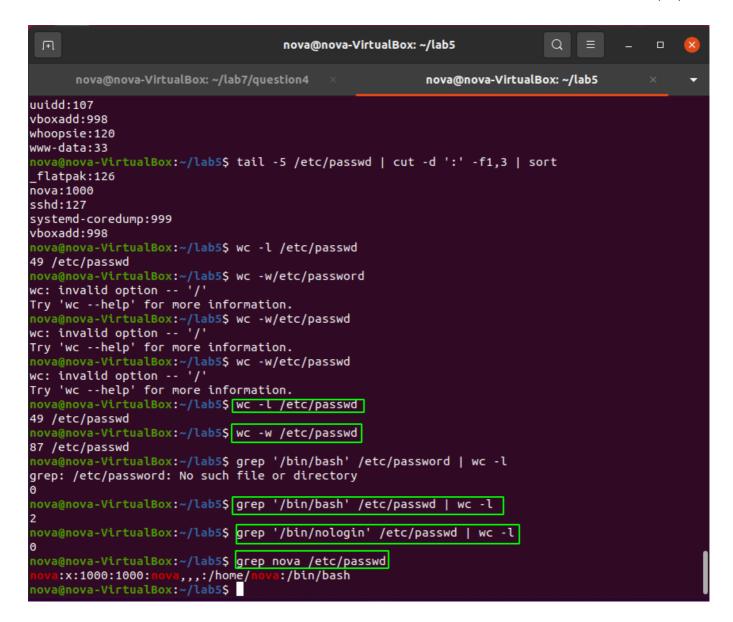


```
nova:x:1000:1000:nova,,,:/home/nova:/bin/bash
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false
nova@nova-VirtualBox:~/lab5$ cat -nE /etc/passwd
    1 root:x:0:0:root:/root:/bin/bash$
       daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$
    2
      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$
       man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$
    8
       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$
   11
       proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$
   12
       www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$
   13
       backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$
       list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$
   15
       irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin$
       gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin$
       nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$
   18
       systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
   20
       systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin$
   21
       systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nolo
gin$
   22
       messagebus:x:103:106::/nonexistent:/usr/sbin/nologin$
       syslog:x:104:110::/home/syslog:/usr/sbin/nologin$
   23
        apt:x:105:65534::/nonexistent:/usr/sbin/nologin$
   24
       tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false$
   25
       uuidd:x:107:114::/run/uuidd:/usr/sbin/nologin$
   26
   27
       tcpdump:x:108:115::/nonexistent:/usr/sbin/nologin$
       avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologi
n$
   29
       usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin$
       hplip:x:119:7:HPLIP system user,,,:/run/hplip:/bin/false$
   39
       whoopsie:x:120:125::/nonexistent:/bin/false$
   40
       colord:x:121:126:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin$
       geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin$
   41
       pulse:x:123:128:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin$
   42
   43
       gnome-initial-setup:x:124:65534::/run/gnome-initial-setup/:/bin/false$
       gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false$
       nova:x:1000:1000:nova,,,:/home/nova:/bin/bash$
       systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin$
   46
       flatpak:x:126:134:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/n
   47
ologin$
   48
      vboxadd:x:998:1::/var/run/vboxadd:/bin/false$
   49 sshd:x:127:65534::/run/sshd:/usr/shin/nologin$
ova@nova-VirtualBox:~/lab5$ head -5 /etc/passwd
oot:x:0:0:root:/root:/bin/bash
laemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
oin:x:2:2:bin:/bin:/usr/sbin/nologin
ys:x:3:3:sys:/dev:/usr/sbin/nologin
:ync:x:4:65534:sync:/bin:/bi<u>n/sync</u>
ova@nova-VirtualBox:~/lab5$ tail -5 /etc/passwd
nova:x:1000:1000:nova,,,:/home/nova:/bin/bash
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
flatpak:x:126:134:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin
boxadd:x:998:1::/var/run/vboxadd:/bin/false
shd:x:127:65534::/run/sshd:/usr/sbin/nologin
ova@nova-VirtualBox:~/lab5$
```

```
nova@nova-VirtualBox:~/lab5$ cut -d ':' -f 1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
ргоху
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
systemd-timesync
messagebus
syslog
_apt
tss
uuidd
tcpdump
avahi-autoipd
usbmux
rtkit
dnsmasq
cups-pk-helper
speech-dispatcher
nova@nova-VirtualBox:~/lab5$ tail -5 /etc/passwd | cut -d ':' -f 1
nova
systemd-coredump
_flatpak
vboxadd
sshd
nova@nova-VirtualBox:~/lab5$ cat /etc/passwd | cut -d ':' -f 1,7
root:/bin/bash
daemon:/usr/sbin/nologin
bin:/usr/sbin/nologin
sys:/usr/sbin/nologin
sync:/bin/sync
games:/usr/sbin/nologin
man:/usr/sbin/nologin
lp:/usr/sbin/nologin
mail:/usr/sbin/nologin
news:/usr/sbin/nologin
```

```
_flatpak:/usr/sbin/nologin
vboxadd:/bin/false
sshd:/usr/sbin/nologin
nova@nova-VirtualBox:~/lab5$ cut -d ':' -f1,3 /etc/passwd | sort -k 2n
_apt:105
avahi:115
avahi-autoipd:109
backup:34
bin:2
colord:121
cups-pk-helper:113
daemon:1
dnsmasq:112
_flatpak:126
games:5
gdm:125
geoclue:122
gnats:41
gnome-initial-setup:124
hplip:119
irc:39
kernoops:116
list:38
lp:7
mail:8
man:6
messagebus:103
www-uata.33
nova@nova-VirtualBox:~/lab5$ tail -5 /etc/passwd | cut -d ':' -f1,3 | sort
_flatpak:126
nova:1000
sshd:127
systemd-coredump:999
vboxadd:998
nova@nova-VirtualBox:~/lab5$
```



```
Q
                                     nova@nova-VirtualBox: ~/lab5
                                                                                             nova@nova-VirtualBox: ~/lab7/question4
                                                          nova@nova-VirtualBox: ~/lab5
2
nova@nova-VirtualBox:~/lab5$ grep '/bin/nologin' /etc/passwd | wc -l
nova@nova-VirtualBox:~/lab5$ grep nova /etc/passwd
nova:x:1000:1000:nova,,,:/home/nova:/bin/bash
nova@nova-VirtualBox:~/lab5$ ip add | grep 'inet'
         127.0.0.1/8 scope host to
        6 ::1/128 scope host
         10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        6 fe80::a32a:dcaa:56f1:f179/64 scope link noprefixroute
nova@nova-VirtualBox:~/lab5$ ip add | grep 'inet | wc -l
nova@nova-VirtualBox:~/lab5$ ip add | grep 'inet' | wc -l
nova@nova-VirtualBox:~/lab5$ ip add | grep 'inet6' | tac
    inet6 fe80::a32a:dcaa:56f1:f179/64 scope link noprefixroute
    inet6 ::1/128 scope host
nova@nova-VirtualBox:~/lab5$ ip add | grep -E 'inet|inet6'
         127.0.0.1/8 scope host lo
          ::1/128 scope host
         10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
          fe80::a32a:dcaa:56f1:f179/64 scope link noprefixroute
nova@nova-VirtualBox:~/lab5$ [ip add | grep -E 'inet|inet6' | sort -o sortedIPadd.txt
nova@nova-VirtualBox:~/lab5$ ts
sortedIPadd.txt
nova@nova-VirtualBox:~/lab5$ ip add | grep 'inet | head -3 | tail -1
nova@nova-VirtualBox:~/lab5$ ip add | grep 'inet' | head -3 | tail -1
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
nova@nova-VirtualBox:~/lab5$ ip ad | grep -E -o '[[:digit:]]{1,3}\.[[:digit:]]{1,3}\.[[:digit:
]]{1,3}\.[[:digit:]]{1,3}' | <mark>sort</mark>
10.0.2.15
10.0.2.255
127.0.0.1
```

```
10.0.2.255
127.0.0.1
nova@nova-VirtualBox:~/lab5$ echo '# Information about my pc' >mypc.md
nova@nova-VirtualBox:~/lab5$ ls
mypc.md sortedIPadd.txt
nova@nova-VirtualBox:~/lab5$ echo '## CPU Information' >mypc.md
nova@nova-VirtualBox:~/lab5$ cat mypc.md
## CPU Information
nova@nova-VirtualBox:~/lab5$ | lscpu | grep -i "architecture" >> mypc.md
nova@nova-VirtualBox:~/lab5$ | lscpu | grep -i "thread(s)" >> mypc.md
nova@nova-VirtualBox:~/lab5$ | lscpu | grep -i "core(s)" >> mypc.md
nova@nova-VirtualBox:~/lab5$ | lscpu | grep -i "model name" >> mypc.md
nova@nova-VirtualBox:~/lab5$ | lscpu | grep -i "cpu m" >> mypc.md
nova@nova-VirtualBox:~/lab5$ | lscpu | grep -i "virtualization" >> mypc.md
nova@nova-VirtualBox:~/lab5$ cat mypc.md
## CPU Information
Architecture:
Thread(s) per core:
Core(s) per socket:
                                                  2
                                                  Intel(R) Core(TM) i7-1065G7 CPU @ 1.30GHz
Model name:
CPU MHz:
                                                  1497.601
Virtualization type:
                                                  full
nova@nova-VirtualBox:~/lab5$ echo '## RAM Information" >> mypc.md
nova@nova-VirtualBox:~/lab5$ echo '## RAM Information' >> mypc.md
nova@nova-VirtualBox:~/lab5$ lslw -c memory | grep 'site' >> mypc.md
Command 'Islw' not found, did you mean:
   command 'lshw' from deb lshw (02.18.85-0.3ubuntu2.20.04.1)
   command 'lsw' from deb suckless-tools (44-1)
Try: sudo apt install <deb name>
 nova@nova-VirtualBox:~/lab5$ lshw -c memory | grep 'site' >> mypc.md
```