TP 1: systeme d'exploitation Linux

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Exercice 1 :

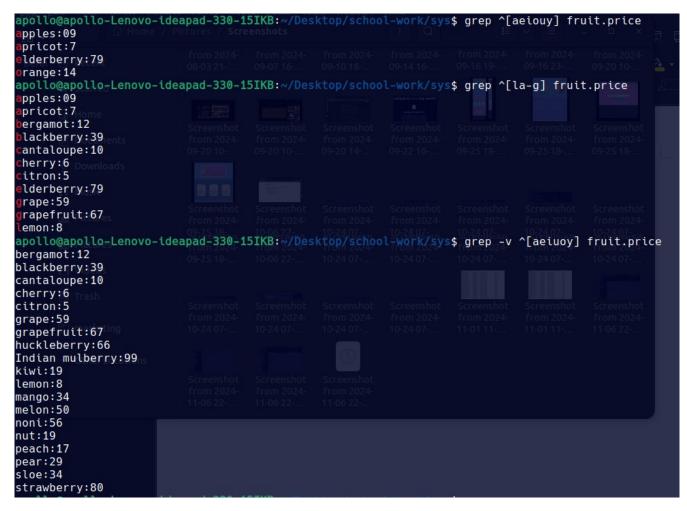1) -

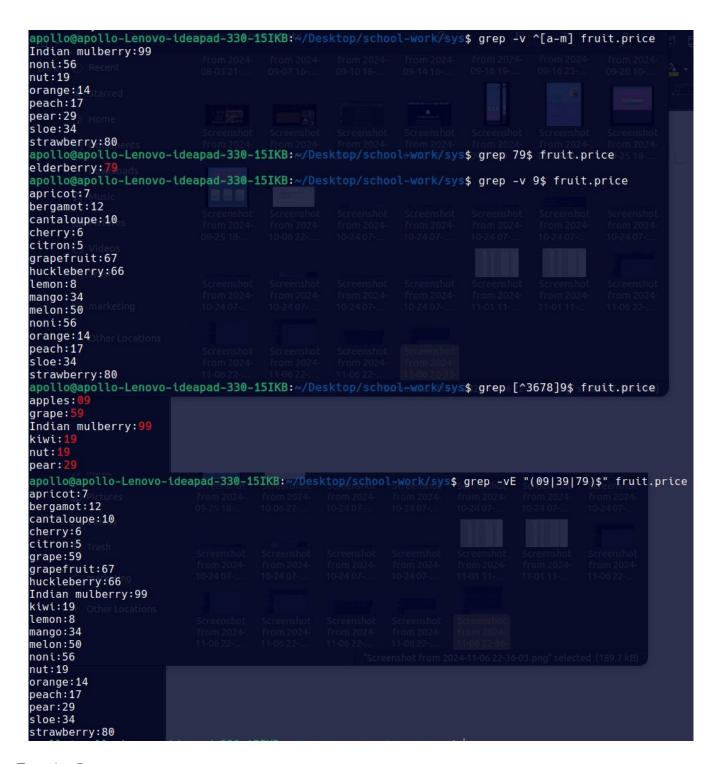

2) -

3) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep berry fruit.price
blackberry:39
elderberry:79
huckleberry:66
Indian mulberry:99
strawberry:80
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep -i appLES fruit.price
apples:09
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep -v apples fruit.price
apricot:7
bergamot:12
blackberry:39
cantaloupe:10
cherry:6
citron:5
elderberry:79
grape:59
grapefruit:67
huckleberry:66
Indian mulberry:99
kiwi:19
lemon:8
mango:34
melon:50
noni:56
nut:19
orange:14
peach:17
pear:29
sloe:34
strawberry:80
```

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep ^[aeiouy] fruit.price
apples:09
apricot:7
elderberry:79
orange:14
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep ^[la-g] fruit.price
apples:09
apricot:7
bergamot:12
blackberry:39
cantaloupe:10
cherry:6
citron:5
elderberry:79
grape:59
grapefruit:67
lemon:8
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep -v ^[aeiuoy] fruit.price
bergamot:12
blackberry:39
cantaloupe:10
cherry:6
citron:5
grape:59
grapefruit:67
huckleberry:66
Indian mulberry:99
kiwi:19
lemon:8
mango:34
melon:50
noni:56
nut:19
peach:17
pear:29
sloe:34
strawberry:80
```

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep -v ^[a-m] fruit.price
Indian mulberry:99
noni:56
nut:19
orange:14
peach:17
pear:29
sloe:34
strawberry:80
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep 79$ fruit.price
elderberry:79
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep -v 9$ fruit.price
apricot:7
bergamot:12
cantaloupe:10
cherry:6
citron:5
grapefruit:67
huckleberry:66
lemon:8
mango:34
melon:50
noni:56
orange:14
peach:17
sloe:34
strawberry:80
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep [^3678]9$ fruit.price
apples:09
grape:59
Indian mulberry:99
kiwi:19
nut:19
pear:29
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ grep -vE "(09|39|79)$" fruit.price
apricot:7
bergamot:12
cantaloupe:10
cherry:6
citron:5
grape:59
grapefruit:67
huckleberry:66
Indian mulberry:99
kiwi:19
lemon:8
mango:34
melon:50
noni:56
nut:19
orange:14
peach:17
pear:29
sloe:34
strawberry:80
```

Exercice 2 :

1 – 2 – 3) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ mkdir tpunix
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ cp /etc/passwd tpunix/des_lignes
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ more tpunix/des_lignes
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:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/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
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
systemd-timesync:x:103:106:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin
syslog:x:104:111::/home/syslog:/usr/sbin/nologin
_apt:x:105:65534::/nonexistent:/usr/sbin/nologin
tss:x:106:113:TPM software stack,,,:/var/lib/tpm:/bin/false
uuidd:x:107:116::/run/uuidd:/usr/sbin/nologin
systemd-oom:x:108:117:systemd Userspace OOM Killer,,,:/run/systemd:/usr/sbin/nologin
tcpdump:x:109:118::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin
usbmux:x:111:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
kernoops:x:113:65534:Kernel Oops Tracking Daemon,,,:/:/usr/sbin/nologin
avahi:x:114:121:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
```

4 - 5) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ head -n 1 tpunix/des_lignes
root:x:0:0:root:/root:/bin/bash
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ head -n -2 tpunix/des_lignes
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
```

6 – 7) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ tail -n 2 tpunix/des_lignes
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false
apollo:x:1000:1000:apollo,,,:/home/apollo:/bin/bash
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ tail -n +6 tpunix/des_lignes
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:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
```

8) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ head -n 2 *.txt
```

Exercice 3 :

1 – 2 – 3) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find ~ -type f -name fiche.txt -print
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find ~ -type d -name tpunix -print
/home/apollo/Desktop/school-work/sys/tpunix
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find / -type f -user "root" -print
```

4) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find / -type f -user "root" -mtime -7 -print
```

5) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find / -type d -name [A-Z]* -print
```

6) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find / -type f -size 150k
```

7) -

```
apollo@apollo-Lenovo-ideapad-330-15IKB:~/Desktop/school-work/sys$ find / -type d -perm "755"
```