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**LINUX: Exercises about files  
manipulation**

## Part 1

Create a file called “awards” in your home directory, containing

JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR

COLIN#FIRTH#THE KING’S SPEECH#ACTOR

HALLE#BERRY#FRANKIE AND ALICE#ACTRESS

NATALIE#PORTMAN#BLACK SWAN#ACTRESS

DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR

ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS

```
daniel@daniel-VirtualBox:~$ cat > awards
JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
COLIN#FIRTH#THE KING’S SPEECH#ACTOR
HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
NATALIE#PORTMAN#BLACK SWAN#ACTRESS
DARREN#FINCHER#THE SOCIAL NETWORK#DIRECTOR
ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
```

1. Add a new line, containing CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR, at the end of the file. You should complete this exercise using commands instead of file editors.

```
daniel@daniel-VirtualBox:~$ cat >> awards
CHRISTOPHER#NOLAN#INCEPTION#DIRECTOR
```

2. Create a file called “actors” in which you only include ACTORS

```
daniel@daniel-VirtualBox:~$ grep "#ACTOR$" awards > actors
```

3. Display the files which begin with a in your home directory

```
daniel@daniel-VirtualBox:~$ ls | grep "^a"
actors
awards
```

4. Create a file called “directors” in which you only include DIRECTORS

```
daniel@daniel-VirtualBox:~$ grep "#DIRECTOR$" awards > directors
daniel@daniel-VirtualBox:~$ nano director
```

5. Display the lines of “awards” containing actresses. Show the line number.

```
daniel@daniel-VirtualBox:~$ grep -n "#ACTRESS$" awards
3:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
4:NATALIE#PORTMAN#BLACK SWAN#ACTRESS
6:ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
```

6. Display the lines in “awards” which are not directors. Show the line number.

```
daniel@daniel-VirtualBox:~$ grep -vn "#DIRECTOR$" awards
1:JESSE#EISENBERG#THE SOCIAL NETWORK#ACTOR
2:COLIN#FIRTH#THE KING'S SPEECH#ACTOR
3:HALLE#BERRY#FRANKIE AND ALICE#ACTRESS
4:NATALIE#PORTMAN#BLACK SWAN#ACTRESS
6:ANNETTE#BENING#THE KIDS ARE ALRIGHT#ACTRESS
```

## PART2

```
daniel@daniel-VirtualBox:~$ cat > people.tx
Ana;Perrrrrrrales;1000
Pedro;Soria;1600
Jacinto;Manzano;500
Claudia;Pastor;600
Xavier;Granados;1000
Soraya;Annnnnnnneja;3000
Xavier;Guerra;4500
Sara;Siria;675
Pablo;Serrano;1000
Sonia;Mono;1600
```

7. Create a file called “people2.txt”, containing those people whose name begins with J or S.

```
daniel@daniel-VirtualBox:~$ grep "^J" people.tx > people2.txt
daniel@daniel-VirtualBox:~$ grep "^S" people.tx >> people2.txt
```

8. Create a file called “people3.txt”, containing those people whose names do not begin with S

```
daniel@daniel-VirtualBox:~$ grep -v "^S" people.tx > people3.txt
```

9. Display the number of people whose name begins with A (case insensitive).

```
daniel@daniel-VirtualBox:~$ grep -ic "^A" people.tx
1
```

10. Display how many people earn 1000 and concatenate the result in people2.txt

```
daniel@daniel-VirtualBox:~$ grep -c "1000$" people.tx >> people2.txt
daniel@daniel-VirtualBox:~$ nano people2.txt
```

11. Display people whose name begin with S and redirect to file to “people\_s.txt”

```
daniel@daniel-VirtualBox:~$ grep "^s" people.tx > people_s.txt
```

## Part 3

12. Create a file called list, including the contents from the current directory

```
daniel@daniel-VirtualBox:~$ ls -R > list
```

13. Open the file to check if the content is right using cat, more and less and observe the differences

```
daniel@daniel-VirtualBox:~$ cat list
.:
actors
awards
Desktop
directors
Documents
Downloads
file29.txt
file70.txt
intento
list
main.java
Main.java
Music
people2.txt
people3.txt
people_s.txt
people.tx
people.txt
```

14. Print the contents of the current directory in reverse alphabetical order.

```
daniel@daniel-VirtualBox:~$ ls -r
Videos          Public          people3.txt    intento        Desktop
Units3-4_Daniel_Gomez.sh Pictures        people2.txt    file70.txt     awards
Templates       permissions     Music          file29.txt     actors
systems         perm1.txt      Main.java     Downloads
script.sh       people.tx      main.java     Documents
script2.sh      people_s.txt   list          directors
```

15. Create a file called inform, containing the long format list of the files and directories in your home directory

```
daniel@daniel-VirtualBox:~$ (ls -l $HOME)>inform
daniel@daniel-VirtualBox:~$ cat inform
total 100
-rw-rw-r-- 1 daniel daniel  79 ene 23 18:29 actors
-rw-rw-r-- 1 daniel daniel 276 ene 23 18:26 awards
drwxr-xr-x 2 daniel daniel 4096 dic  9 16:40 Desktop
-rw-rw-r-- 1 daniel daniel  80 ene 23 18:35 directors
drwxr-xr-x 2 daniel daniel 4096 dic  9 16:40 Documents
```

16. Find the word FILE in each file of your home directory, ignoring case and showing the line number (create files containing this word if you want any match).

```
daniel@daniel-VirtualBox:~$ grep -iwn "FILE" $HOME/* 2> /dev/null
/home/daniel/list:43:file.txt
```

