

```
enovo@LAPTOP-J497TRQ1 MINGW64 ~  
mkdir tc2_VegaEsteban
```

```
enovo@LAPTOP-J497TRQ1 MINGW64 ~  
ls
```

```
-1.14-windows.xml  
3D Objects'/  
AppData/  
Application Data'@  
Contacts/  
Cookies@  
Documents/  
Downloads/  
Favorites/  
IntelGraphicsProfiles/  
Links/  
Local Settings'@  
MicrosoftEdgeBackups/  
Music/  
My Documents'@  
NTUSER.DAT  
NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TM.b1f  
NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000001.regtrans-ms  
NTUSER.DAT{1c2b59c6-c5f5-11eb-bacb-000d3a96488e}.TMContainer00000000000000000002.regtrans-ms  
NTUSER.DAT{7fbbb6c7-c415-11ec-9d2a-f8998c095c7e}.TM.b1f  
NTUSER.DAT{7fbbb6c7-c415-11ec-9d2a-f8998c095c7e}.TMContainer00000000000000000001.regtrans-ms  
NTUSER.DAT{7fbbb6c7-c415-11ec-9d2a-f8998c095c7e}.TMContainer00000000000000000002.regtrans-ms  
NetHood@  
OneDrive/  
PrintHood@  
Recent@  
Saved Games'/  
Searches/  
SendTo@  
Start Menu'@  
Templates@  
Videos/  
c1/  
c2/  
c3/  
c4/  
deber3.m  
ntuser.dat.LOG1  
ntuser.dat.LOG2  
ntuser.ini  
tc2_VegaEsteban/
```

```
enovo@LAPTOP-J497TRQ1 MINGW64 ~
```

```
$ mv Downloads/AgGCN1.0_properties.csv tc2_VegaEsteban/
```

```
lenovo@LAPTOP-J497TRQ1 MINGW64 ~  
$ cd tc2_VegaEsteban/  
  
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban  
$ ls  
AgGCN1.0_properties.csv  
  
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban  
$  
  
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban  
$ cut -d "," -f 1,4,6 AgGCN1.0_properties.csv > Eigenbetw.tsv  
  
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban  
$ head -n 3 Eigenbetw.tsv  
id,eigenvector,betweenness  
AGAP000002,0.008787135,2.91E-05  
AGAP000005,0.013750498,0.000171241
```

```
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban  
$ nano tc2_VegaEsteban.sh  
  
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban  
$ bash tc2_VegaEsteban.sh  
tc2_VegaEsteban.sh: line 1: tc2_VegaEsteban.sh: command not found
```

```
Estas son las primeras 7 lineas  
id,eigenvector,betweenness  
AGAP000002,0.008787135,2.91E-05  
AGAP000005,0.013750498,0.000171241  
AGAP000007,7.90E-06,0  
AGAP000008,0.000383447,1.22E-06  
AGAP000009,0.013802427,0.000654142  
AGAP000010,0.000101576,0
```

```
0  
Estas son las ultimas 5 lineas  
AGAP029781,0.000987921,1.49E-05  
AGAP029784,3.45E-05,0.000155039  
AGAP029786,0.000146935,5.04E-05  
AGAP029787,9.99E-06,1.22E-07  
AGAP029789,0.001757408,0.001160083
```

```
lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban
$ bash tc_VegaEstaban2.sh
bash: tc_VegaEstaban2.sh: No such file or directory

lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban
$ bash tc_VegaEstaban2.sh
bash: tc_VegaEstaban2.sh: No such file or directory

lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban
$ nano tc2_VegaEstaban2.sh

lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban
$ bash tc2_VegaEstaban2.sh
sort: cannot read: g: No such file or directory
grep: [0-9]*5,: No such file or directory

lenovo@LAPTOP-J497TRQ1 MINGW64 ~/tc2_VegaEsteban
$ |
```

No corrio 😞

```
GNU nano 6.4 New Buffer Modified
echo -e "\n" #Este comando designa saltos en linea.
echo "Estas son las primeras 7 filas"
head -n 7 EigenBetw.tsv
echo -e "\n"0
echo "Estas son las ultimas 5 filas"
tail -n 5 EigenBetw.tsv
|
```

```
MINGW64:/c/Users/lenovo/tc2_VegaEsteban
GNU nano 6.4 tc2_VegaEstaban2.sh Modified
grep AGAP [0-9]*5, Eigenbetw.tsv | sort -t "," -k 3 g >EigenBetw5.csv
```