

Universidad Regional Amazónica IKIAM
TC2_Unix2GitHub1

Nombre: Emily Benavides

1. Preparación:

- a. Descargue el archivo
- b. Cree un nuevo directorio

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~ (EmilyBenavides)
$ cd Documents/
```

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents (EmiBenavides)
$ mkdir tc2_BenavidesEmily
```

- c. Mueva el archivo al directorio creado

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents (EmiBenavides)
$ mv AgGCN1.0_properties.csv tc2_BenavidesEmily/

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents (EmiBenavides)
$ cd tc2_BenavidesEmily/

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ ls
AgGCN1.0_properties.csv
```

2. Selección

- a. Copiar las columnas “id” “eigenvector” y “betweenness” a “EigenBetw.tsv”

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ touch EigenBetw.tsv

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ ls
AgGCN1.0_properties.csv  EigenBetw.tsv
```

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ cut -d "," -f 1,4,6 AgGCN1.0_properties.csv > EigenBetw.tsv

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ head -n 2 EigenBetw.tsv
id,eigenvector,betweenness
AGAP000002,0.008787135,2.91E-05
```

3. Bash Script1

- a. Con nano, cree “tc2_ApellidoNombre.sh”

```

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ nano tc2_BenavidesEmily.sh

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ cat tc2_BenavidesEmily.sh
#Exponer las 7 primeras filas y las 5 ultimas
echo -e "\n"

echo "Aquí van las 7 primeras filas"

head -n 7 EigenBetw.tsv

echo -e "\n"

echo "Aquí van las 5 últimas filas"
tail -n 5 EigenBetw.tsv

```

- b. Escriba el comando para ver las primeras 7 y últimas 5 filas de "EigenBetw.tsv"

```

GNU nano 6.2 tc2_BenavidesEmily.sh
#Exponer las 7 primeras filas y las 5 ultimas
echo -e "\n"

echo "Aquí van las 7 primeras filas"

head -n 7 EigenBetw.tsv

echo -e "\n"

echo "Aquí van las 5 últimas filas"
tail -n 5 EigenBetw.tsv

[ Read 13 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line

```

- c. Imprima un mensaje de separación entre ellas

```

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ bash tc2_BenavidesEmily.sh

Aquí van las 7 primeras filas
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

Aquí van las 5 últimas filas
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

```

4. Bash Script2

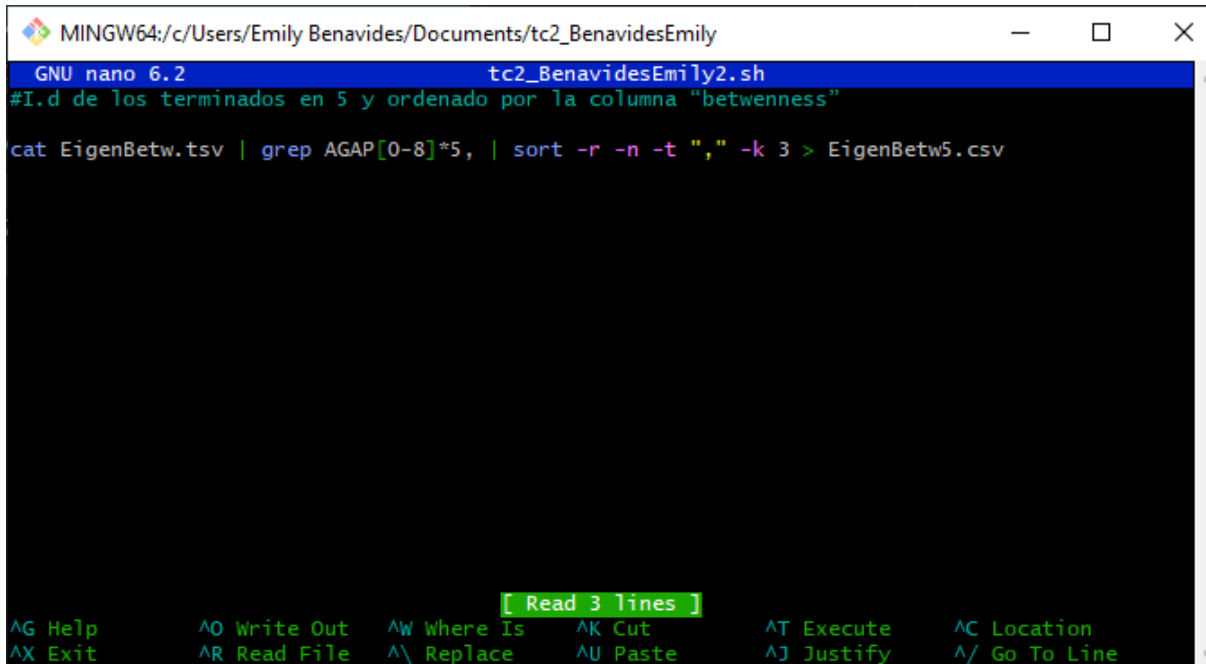
- a. Crear "tc2_ApellidoNombre2.sh" en nano

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ nano tc2_BenavidesEmily2.sh

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ cat tc2_BenavidesEmily2.sh
#I.d de los terminados en 5 y ordenado por la columna "betwenness"

cat EigenBetw.tsv | grep AGAP[0-8]*5, | sort -r -n -t "," -k 3 > EigenBetw5.csv
```

- b. Seleccione los registros cuyo "id" termine en 5 y ordene por la columna "betwenness"



```
MINGW64:/c:/Users/Emily Benavides/Documents/tc2_BenavidesEmily
GNU nano 6.2 tc2_BenavidesEmily2.sh
#I.d de los terminados en 5 y ordenado por la columna "betwenness"

cat EigenBetw.tsv | grep AGAP[0-8]*5, | sort -r -n -t "," -k 3 > EigenBetw5.csv

[ Read 3 lines ]
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line
```

- c. Guarde el resultado anterior en "EigenBetw5.csv"

```
Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ nano tc2_BenavidesEmily2.sh

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ bash tc2_BenavidesEmily2.sh

Emily Benavides@LAPTOP-I58SGI7Q MINGW64 ~/Documents/tc2_BenavidesEmily (EmiBenavides)
$ cat EigenBetw5.csv
AGAP011165,0.000916753,9.97E-05
AGAP005775,0.000670006,9.92E-06
AGAP008635,8.42E-05,9.85E-07
AGAP001035,0.000216841,9.85E-05
AGAP001825,0.012018156,9.84E-06
AGAP001675,0.000162749,9.83E-05
AGAP008045,0.000864715,9.82E-05
AGAP013405,0.000283132,9.79E-06
AGAP004575,3.13E-05,9.78E-06
```