## Nombre: Nayeli Pineda

## 1.10.3 PLANT-POLLINATOR NETWORKS

Captura de pantalla de la ejecución del archivo netsize.sh

## The data of Saavedra and Stouffer (2013) can be found in the directory CSB/unix/data/Saavedra2013.

1. Write a script that takes one of these files and determines the number of rows (pollinators) and columns (plants). Note that columns are separated by spaces and that there is a space at the end of each line. Your script should return.

```
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ echo "Nayeli,Pineda" > netsize.txt

Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ echo "Filas" >> netsize.txt | wc -l n25.txt >>netsize.txt

Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ echo "Columnas" >> netsize.txt | head -n l ../Saavedra2013/n25.txt | tr -d " " | wc -c >> netsize.txt

Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ |
```

Con condicional para todos los archivos.txt

```
MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ nano netsize1.sh
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ cat netsize1.sh
#!/bin/bash
echo "Nayeli,Pineda; Analisis de datso simples"
echo "Nombre del archivo:"
echo $1
echo "Numero de filas:"
cat $1 | wc -l
echo "Numero de columnas:"
head -n 1 $1 | tr -d " " | tr -d "\n" | wc -c
Asus@DESKTOP-7T077UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n25.txt
Nayeli,Pineda; Analisis de datso simples
Nombre del archivo:
n25.txt
Numero de filas:
Numero de columnas:
16
 sus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
```

```
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize_all.sh n1.txt
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ cat netsize1.sh
#!/bin/bash
echo "Nayeli,Pineda; Analisis de datso simples"
echo "Nombre del archivo:
echo $1
echo "Numero de filas:"
cat $1 | wc -1
echo "Numero de columnas:"
head -n 1 $1 | tr -d " " | tr -d "\n" | wc -c
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n1.txt > netsize1.txt
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n2.txt > netsize1.txt
\sus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n1.txt > netsize1.txt
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n2.txt >> netsize1.txt
\sus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n3.txt >> netsize1.txt
usus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n4.txt >> netsize1.txt
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ ./netsize1.sh n5.txt >> netsize1.txt
 sus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
```

## 2. [Advanced]

Write a script that prints the numbers of rows and columns for each network:

```
@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (mast
$ cat netsize_all.sh
#! /bin/bash
for f in $files
do
           filas= 'cat $f | wc -1'
           columnas= 'head -n 1 $f | tr -d ' ' | tr -d '\n' | wc -c'
           echo $f $filas $columnas
done
 sus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (mast
  bash ./netsize_all.sh n13
                                                                                                        - 🗇 X
MINGW64:/c/Users/Asus/Documents/CSB-master/unix/data/Saavedra2013
    filas= 'cat Si | wc -l' columnas= 'head -n 1 Sf | tr -d ' ' | tr -d '\n' | wc -c echo Sf Sfilas Scolumnas
                                         AT Execute AC Location M-U Undo
🗜 🔎 Escribe aquí para buscar 🎎 🙃 🛱 🕡 🕟 🧰
                                                                                            s echo "Nayeli, Pineda; Análisis de datos con bucle FOR" > netsize_all.txt
                                       ents/CSB-master/unix/data/Saavedra2013 (master)
 sus@DESKTOP-7TQ77UE MINGW64
s echo "archivo" >>netsize_all.txt | for i in *.txt; do echo $i; done >> netsize_all.txt
 usus@DESKTOP-7TQ77UE MINGW64 ~/Documents/C5B-master/unix/data/Saavedra2013 (master)
i echo "filas" >> netsize_all.txt |for item in ../Saavedra2013/*.txt; do cat $item | wc -l; done >> netsize_a
Asus@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
$ echo "Número de columnas" >> netsize_all.txt |for a in ../Saavedra2013/*.txt; do head -n 1 $a | tr -d "\n"
 wc -c; done
 60
40
182
144
 echo "Número de columnas" >> netsize_all.txt |for a in ../Saavedra2013/*.txt; do head -n 1 $a | tr -d "\n"
  wc -c; done >> netsize_all.txt
   s@DESKTOP-7TQ77UE MINGW64 ~/Documents/CSB-master/unix/data/Saavedra2013 (master)
```