UNIVERSIDAD REGIONAL AMAZONICA IKIAM

Nombre:

Fecha: 18/11/2022 Materia: Bioinformática

Nombre: Shomaira Loor

Ejercicio 1-10-1

```
X
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/sandbox
SUS@DESKTOP-LKEFEJE MINGW64 ~
 cd downloads
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads
$ cd CSB-master
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master
$ cd CSB-master/
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master
 cd unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
cd data
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data
$ 1s
Buzzard2015_about.txt
                       Marra2014_about.txt
                                               Saavedra2013/
Buzzard2015_data.csv
                       Marra2014_data.fasta
                                               Saavedra2013_about.txt
Gesquiere2011_about.txt
                       Pacifici2013_about.txt
                                               miRNA/
                        Pacifici2013_data.csv
Gesquiere2011_data.csv
SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data
 MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/sandbox
                                                                      SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master
$ cd CSB-master/
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master
$ cd unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$ cd data
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data
$ 1s
Buzzard2015_about.txt
                        Marra2014_about.txt
                                               Saavedra2013/
Buzzard2015_data.csv
                                               Saavedra2013_about.txt
                        Marra2014_data.fasta
Gesquiere2011_about.txt Pacifici2013_about.txt miRNA/
Gesquiere2011_data.csv
                        Pacifici2013_data.csv
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data
$ cd ../
$ cd sandbox/
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
```

```
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/sandbox
                                                                                       X
Buzzard2015_about.txt
                             Marra2014_about.txt
                                                           Saavedra2013/
Buzzard2015_data.csv
Gesquiere2011_about.txt
                             Marra2014_data.fasta
                                                           Saavedra2013_about.txt
                             Pacifici2013_about.txt
                                                          miRNA/
                             Pacifici2013_data.csv
Gesquiere2011_data.csv
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data
 SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
 cd sandbox/
SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
 ls -lh ../data/Marra2014_data.fasta
rw-r--r-- 1 ASUS 197121 553K Oct 17 17:43 ../data/Marra2014_data.fasta
 SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
 cp ../data/Marra2014_data.fasta my_fila.fasta
SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
Papers and reviews'/
                            c1/
                                   c2/
                                           c3/
                                                  c4/
                                                         my_fila.fasta
SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
 MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/sandbox
                                                                                        Modified
 GNU nano 6.4
                                        Ejercicio_1_10_1.sh
  ver tamano del archivo
ls -hs ../data/Marra2014_data.fasta
 ver cuantos isogroup00036 hay!
grep isogroup00036 my_fila.fasta | wc -l
#Reemplazar el delimitador con dos espacio y coma cat my_fila.fasta | tr -s ' ' ',' > my_fila.tmp my_fila.tmp my_fila.fasta
#Cuantos isogrps existe en el archivo<mark>|</mark>
grep '>' my_fila.fasta | cut -d ',' -f 4|sort |uniq |wc -l
#conting el mayor numero de lectura<mark>|</mark>
grep '>' my_fila.fasta | cut -d ',' -f 1,3 | sort -t '=' -k 2 -n -r | head -n 1
               ∧O Write Out
                               ∧W Where Is
```

Ejercicio 1 -10 - 2

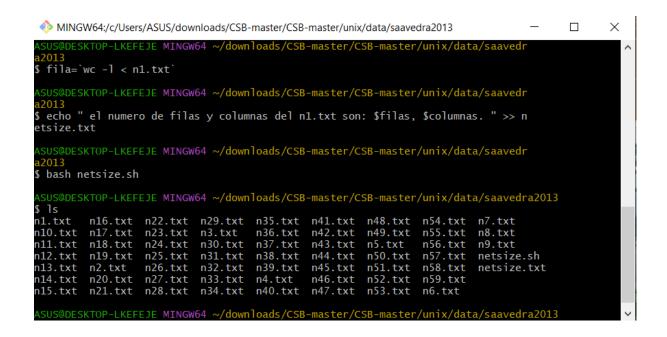
```
X
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~
$ cd downloads/CSB-master
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master
$ cd CSB-master/
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master
$ cd unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$ nano Ejercicio_1_10_2_shomi.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$ nano Ejercicio_1_10_2_shomi.sh
$ nano conteo_Ejercicio_1_10_2_shomi.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
```

```
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix
 SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
 ٦s
                            conteo_Ejercicio_1_10_2_shomi.sh sandbox/
Conteo_1_10_2_shomi.sh
Ejercicio_1_10_2_shomi.sh
                            data/
                                                                 solutions/
bionfo/
                             installation/
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$ nano ejercicio_1_10_2_shomi.sh
 SUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
 bash ejercicio_1_10_2_shomi.sh
ID 1 conteo: 10
ID 2 conteo: 2
ID 3 conteo: 61
ID 4 conteo: 46
ID 5 conteo: 28
ID 6 conteo: 7
ID 7 conteo: 5
ID 8 conteo: 17
ID 9 conteo: 4
ID 10 conteo: 21
ID 11 conteo: 26
 MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix
                                                                             ID 106 conteo: 46
ID 107 conteo: 7
ID 108 conteo: 41
ID 109 conteo: 28
ID 110 conteo: 3
ID 111 conteo: 24
ID 112 conteo: 3
ID 113 conteo: 1
ID 114 conteo: 1
ID 115 conteo: 1
ID 116 conteo: 14
ID 118 conteo:
                23
ID 119 conteo:
ID 120 conteo: 42
ID 121 conteo: 12
ID 122 conteo: 9
ID 123 conteo: 39
ID 124 conteo: 1
ID 125 conteo: 39
ID 126 conteo: 15
ID 127 conteo: 13
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
```

Ejercicio 1 -10 -3

```
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/data/saav...
                                                                          Х
ASUS@DESKTOP-LKEFEJE MINGW64 ~
$ cd downloads
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads
$ cd CSB-master
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master
$ cd CSB-master/
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master
$ cd unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$ cd data/saavedra2013
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ touch netsize.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
```

a2013 **\$**



```
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/data/saavedra2013

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013

$ for archivo in *.txt;

> do

> numero_fila='cat $archivo | wc -l'

> numero_columnas='head -n 1 $archivo | tr -d " " | tr -d "\n" | wc -c'

> echo "el numero de filas y columnas de $archivo son: $numero_fila, $numero_columna.">>> netsize_all.txt

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013

$ bash netsize_all .sh

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013

$ ls

nl.txt nl6.txt n22.txt n29.txt n35.txt n41.txt n48.txt n54.txt n7.txt

n10.txt n17.txt n23.txt n3.txt n36.txt n42.txt n49.txt n55.txt n8.txt

n11.txt n18.txt n24.txt n30.txt n37.txt n43.txt n55.txt n56.txt n9.txt

n12.txt n19.txt n25.txt n31.txt n38.txt n44.txt n50.txt n57.txt netsize.sh

n13.txt n2.txt n26.txt n32.txt n39.txt n45.txt n51.txt n58.txt netsize.txt

n14.txt n20.txt n27.txt n33.txt n4.txt n46.txt n52.txt n59.txt netsize_all

n15.txt n21.txt n28.txt n34.txt n40.txt n47.txt n53.txt n6.txt netsize_all.txt

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013
```