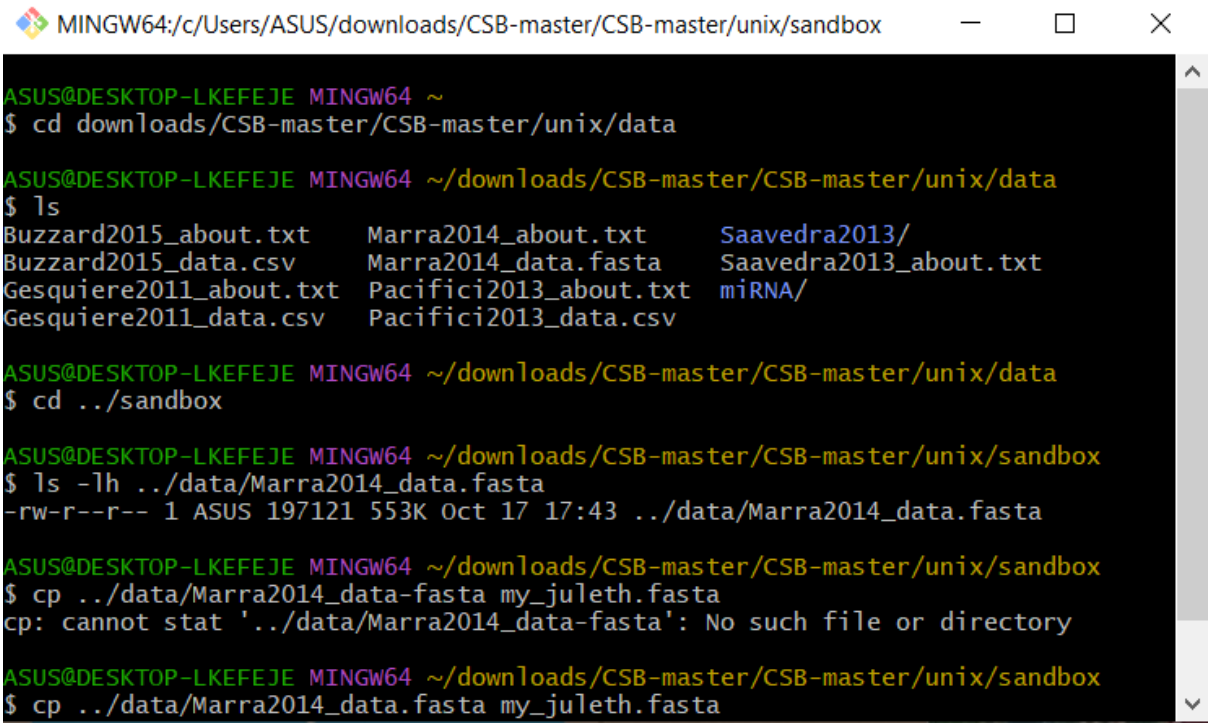
UNIVERSIDAD REGIONAL AMAZÓNICA IKIAM

BIOTECNOLOGÍA- BIOINFORMÁTICA

Nombre: Juleth Belsabeth Flores Guerrero

TC3_ForLoop

1. *Realice la actividad de acuerdo a las indicaciones del documento.*



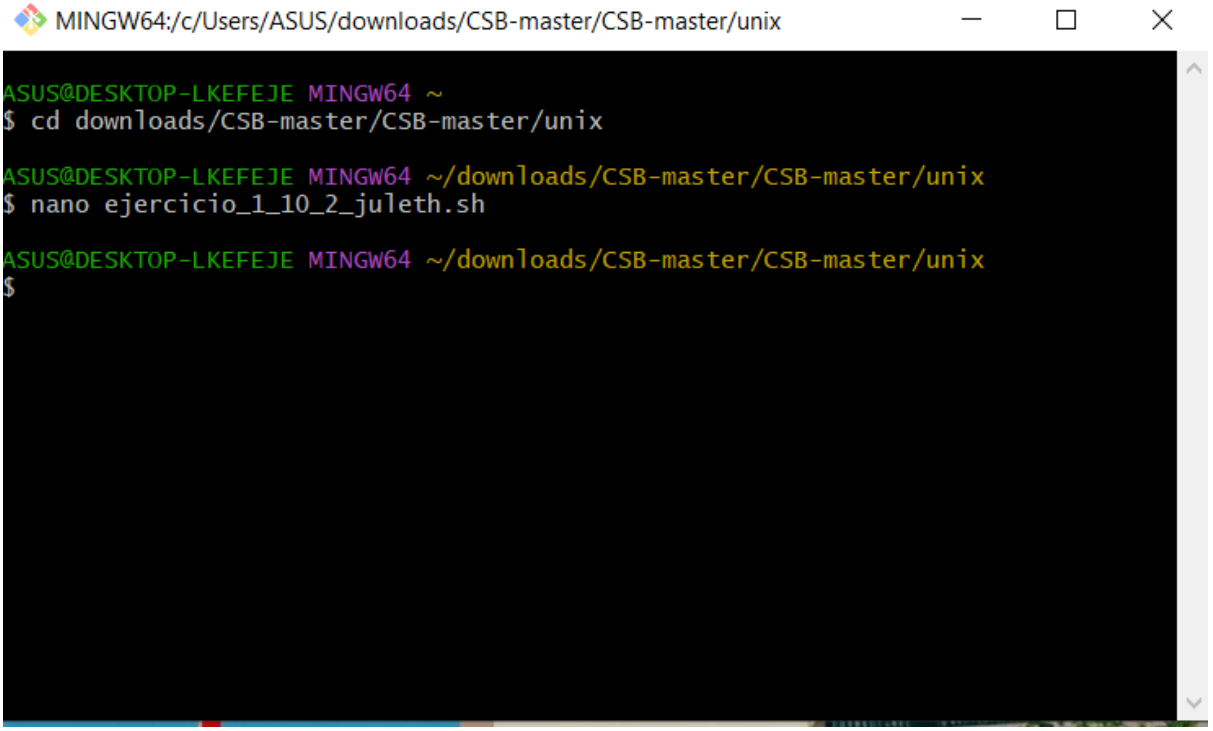
MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/sandbox

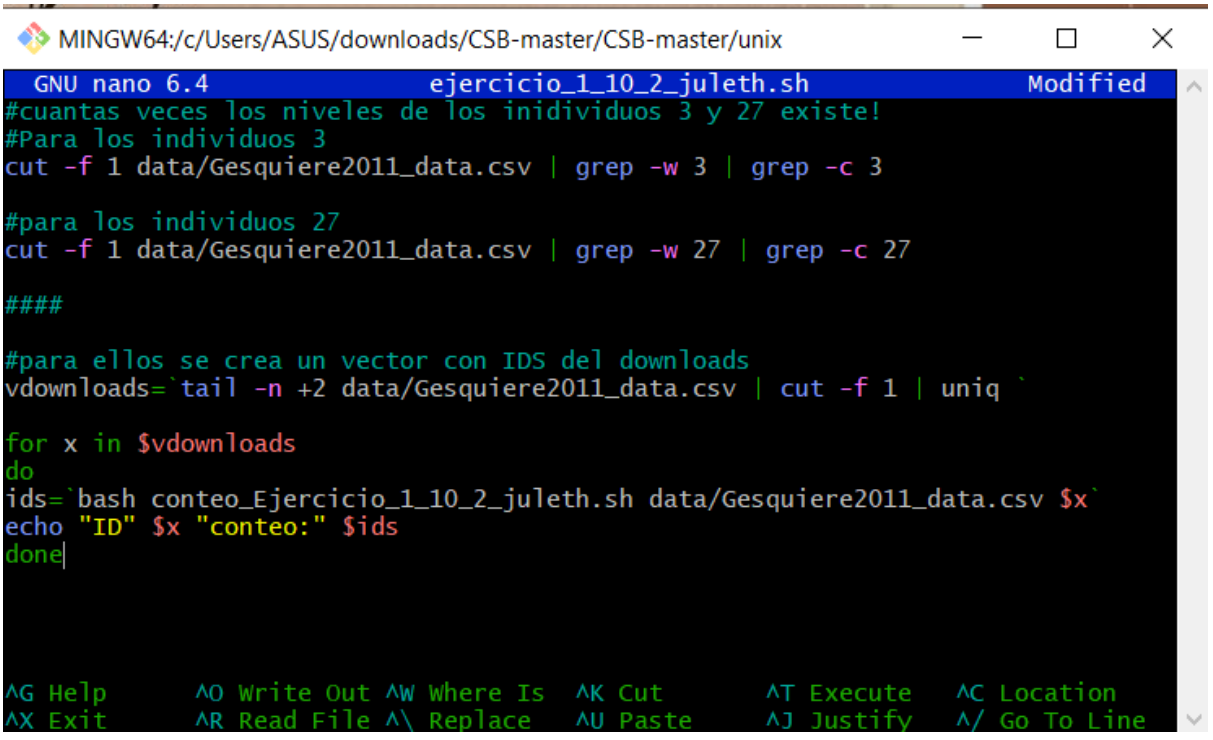
```
  GNU nano 6.4                    ejercicio_1_10_1.sh
# ver tamano del archivo
ls -hs ../data/Marra2014_data.fasta
# ver cuantos isogroup00036 hay!

grep  isogroup00036 my_fila.fasta | wc -l


#Reemplazar el delimitador con dos espacio y coma
cat my_fila.fasta |tr -s ' ' ',' > my_fila.tmp
mv my_fila.tmp my_fila.fasta


#Cuantos isogrps  existe en el archivo
grep '>' my_fila.fasta | cut -d ',' -f 4|sort |uniq |wc -l

#conting el mayor numero de lectura
grep '>'  my_fila.fasta | cut -d ',' -f 1,3 | sort -t '=' -k 2 -n -r | head -n 1



                          [ Read 18 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
```

MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/sandbox

```
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
$ cp ../data/Marra2014_data.fasta my_juleth.fasta

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
$ ls
 Ejercicio_1_10_1.sh    c4/                          my_fila.fasta
'Papers and reviews'/   ejerciciojulet_1_10_1.sh    my_filaJuleth.fasta
 c1/                    my:fila.fasta                my_juleth.fasta
 c2/                    my:filaJuleth.fasta
 c3/                    my:filajulet.fasta

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
$ nano ejercici_1_10_1.sh

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
$ bash ejercicio_1_10_1.sh
556K ../data/Marra2014_data.fasta
16
43
>contig00302,numreads=3330

ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/sandbox
$
```

Ejercicio 1 -10 - 2


MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~
$ cd downloads/CSB-master/CSB-master/unix
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$ nano ejercicio_1_10_2_juleth.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix
$


MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix
GNU nano 6.4 ejercicio_1_10_2_juleth.sh Modified
#cuantas veces los niveles de los inidividuos 3 y 27 existe!
#Para los individuos 3
cut -f 1 data/Gesquiere2011_data.csv | grep -w 3 | grep -c 3
#para los individuos 27
cut -f 1 data/Gesquiere2011_data.csv | grep -w 27 | grep -c 27
####
#para ellos se crea un vector con IDS del downloads
vdownloads=`tail -n +2 data/Gesquiere2011_data.csv | cut -f 1 | uniq `
for x in $vdownloads
do
ids=`bash conteo_Ejercicio_1_10_2_juleth.sh data/Gesquiere2011_data.csv $x`
echo "ID" $x "conteo:" $ids
done
^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

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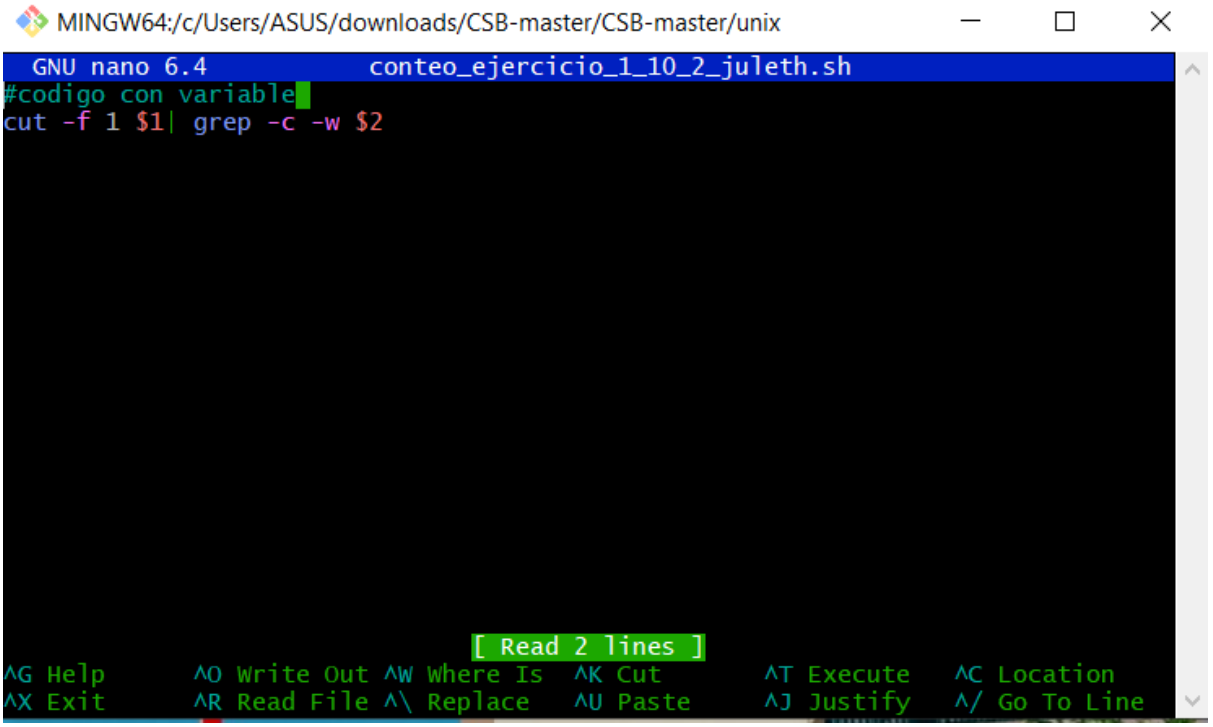

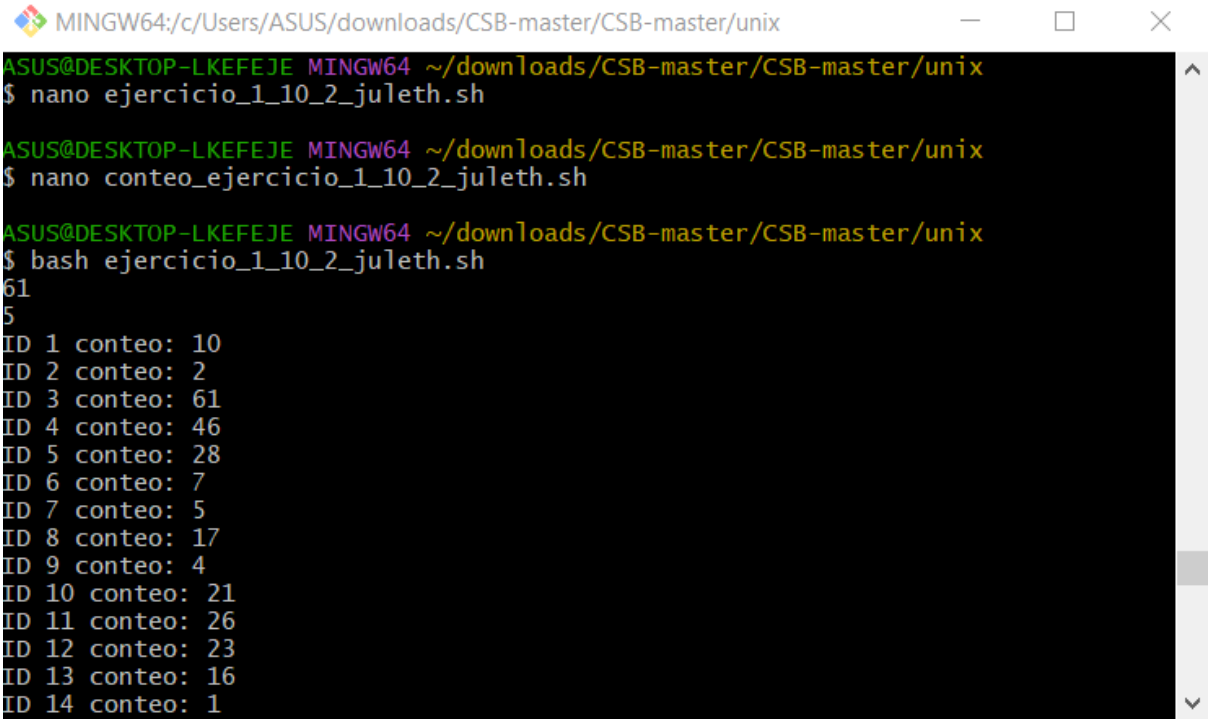

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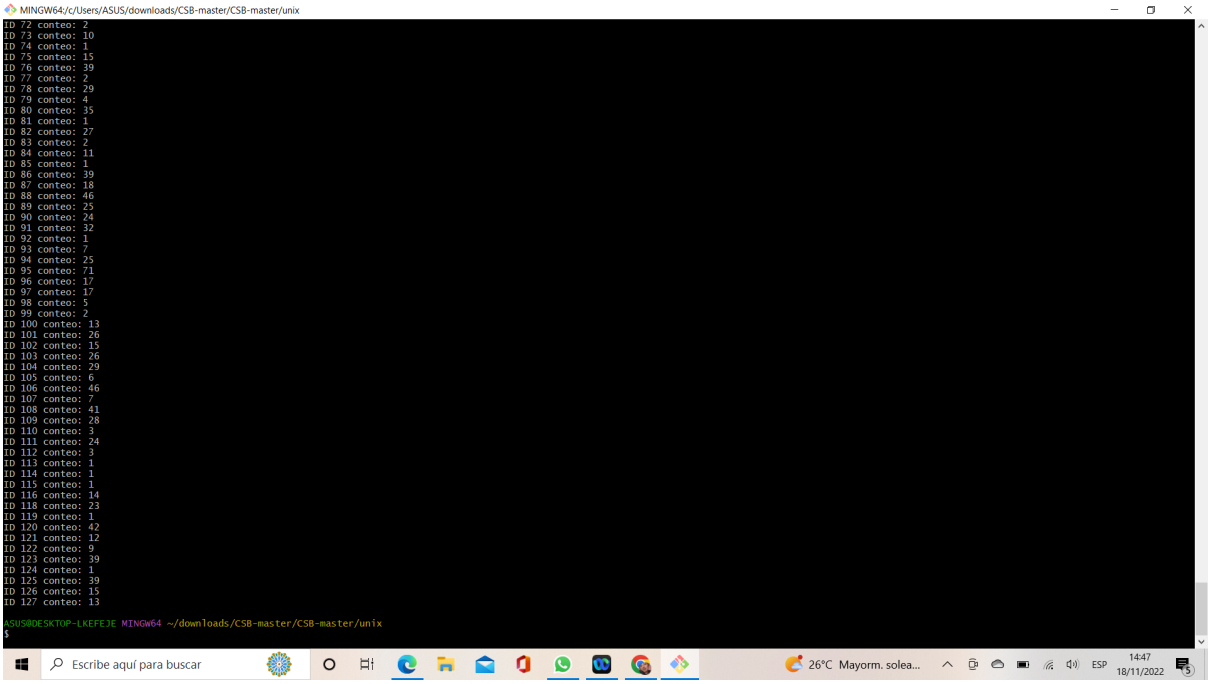
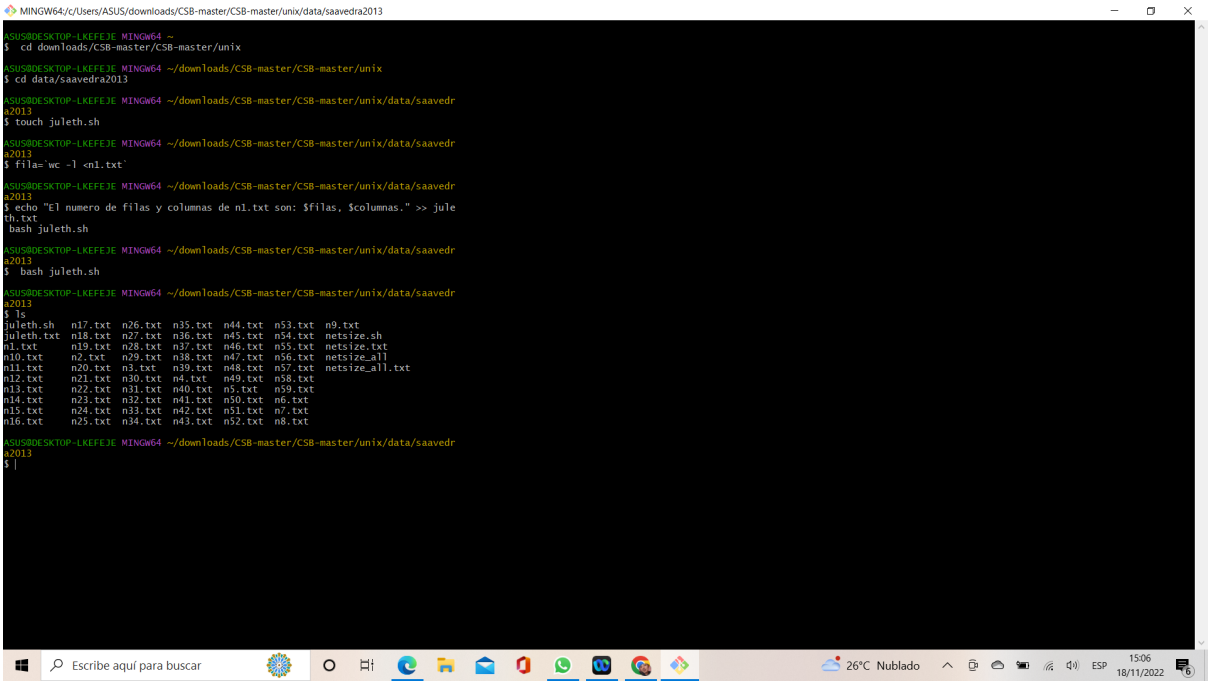
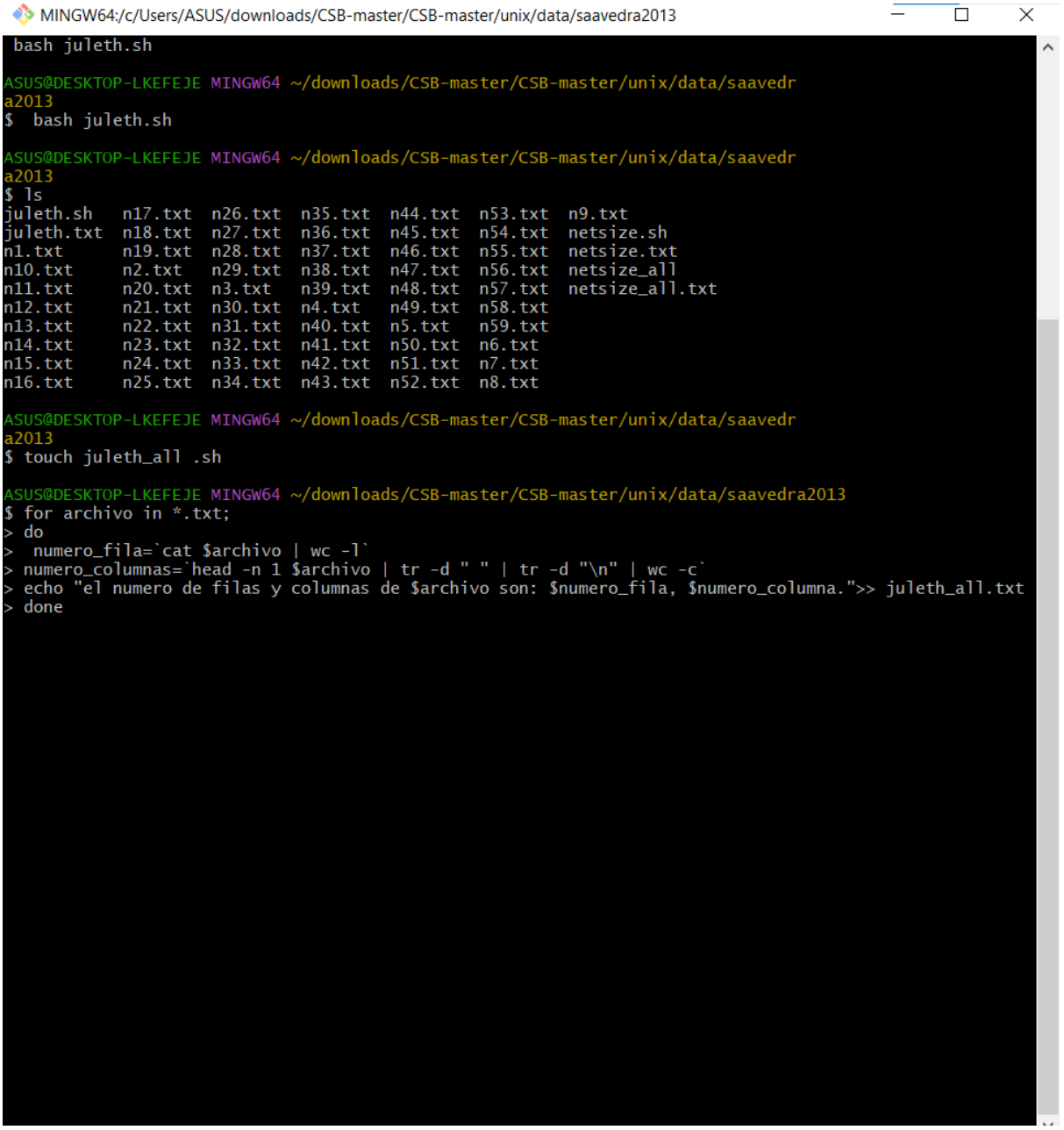
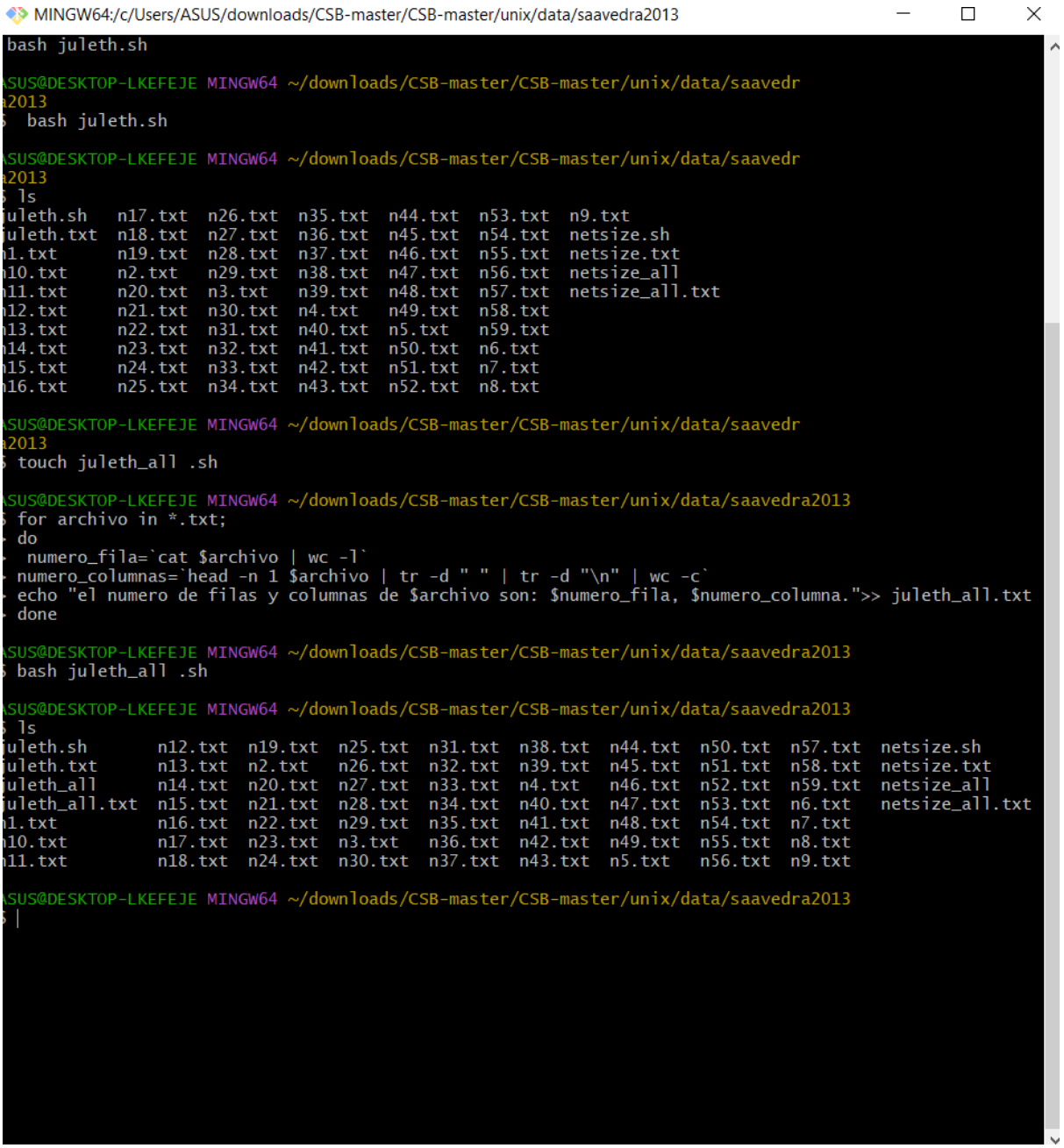


Ejercicio 1 -10 - 3




MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/data/saavedra2013
bash juleth.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ bash juleth.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ ls
juleth.sh n17.txt n26.txt n35.txt n44.txt n53.txt n9.txt
juleth.txt n18.txt n27.txt n36.txt n45.txt n54.txt netsize.sh
n1.txt n19.txt n28.txt n37.txt n46.txt n55.txt netsize.txt
n10.txt n2.txt n29.txt n38.txt n47.txt n56.txt netsize_all
n11.txt n20.txt n3.txt n39.txt n48.txt n57.txt netsize_all.txt
n12.txt n21.txt n30.txt n4.txt n49.txt n58.txt
n13.txt n22.txt n31.txt n40.txt n5.txt n59.txt
n14.txt n23.txt n32.txt n41.txt n50.txt n6.txt
n15.txt n24.txt n33.txt n42.txt n51.txt n7.txt
n16.txt n25.txt n34.txt n43.txt n52.txt n8.txt
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ touch juleth_all .sh
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.">> juleth_all.txt
> done


MINGW64:/c/Users/ASUS/downloads/CSB-master/CSB-master/unix/data/saavedra2013
bash juleth.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ bash juleth.sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ ls
juleth.sh n17.txt n26.txt n35.txt n44.txt n53.txt n9.txt
juleth.txt n18.txt n27.txt n36.txt n45.txt n54.txt netsize.sh
n1.txt n19.txt n28.txt n37.txt n46.txt n55.txt netsize.txt
n10.txt n2.txt n29.txt n38.txt n47.txt n56.txt netsize_all
n11.txt n20.txt n3.txt n39.txt n48.txt n57.txt netsize_all.txt
n12.txt n21.txt n30.txt n4.txt n49.txt n58.txt
n13.txt n22.txt n31.txt n40.txt n5.txt n59.txt
n14.txt n23.txt n32.txt n41.txt n50.txt n6.txt
n15.txt n24.txt n33.txt n42.txt n51.txt n7.txt
n16.txt n25.txt n34.txt n43.txt n52.txt n8.txt
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedr
a2013
$ touch juleth_all .sh
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.">> juleth_all.txt
> done
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013
$ bash juleth_all .sh
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013
$ ls
juleth.sh n12.txt n19.txt n25.txt n31.txt n38.txt n44.txt n50.txt n57.txt netsize.sh
juleth.txt n13.txt n2.txt n26.txt n32.txt n39.txt n45.txt n51.txt n58.txt netsize.txt
juleth_all n14.txt n20.txt n27.txt n33.txt n4.txt n46.txt n52.txt n59.txt netsize_all
juleth_all.txt n15.txt n21.txt n28.txt n34.txt n40.txt n47.txt n53.txt n6.txt netsize_all.txt
n1.txt n16.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 n5.txt n56.txt n9.txt
ASUS@DESKTOP-LKEFEJE MINGW64 ~/downloads/CSB-master/CSB-master/unix/data/saavedra2013
$