1. En Aules hay un fichero llamado **ejercicio1** con este contenido:

```
Where I came from there were no hills at all
the land was flat, the highway straight and wide
my brother and I would drive for hours
like we had years instead of days
our faces as pale as the dirty snow

Once I knew there was a love divine
then came a time I thought it knew me not
who can forgive forgiveness where forgiveness is not?
only the lamb as white as snow

And the water, it was icy
as it washed over me
and the moon shone above me

Now this dry ground it bears no fruit at all
only poppies laugh under the crescent moon
the road refuses strangers
the land the seeds we sow
where might we find the lamb as white as snow?

As boys we would go hunting in the woods
to sleep the night shooting out the stars
now the wolves are very passing stranger
every face we cannot know
if only a heart could be as white as snow
if only a heart could be as white as snow
```

   a. Haz clic con el botón derecho del ratón y pulsa en **Guardar enlace como** para descargarlo. Realiza los siguientes ejercicios con el fichero que has descargado.

   b. Muestra las líneas que acaben con vocal minúscula.

```
luciano   ~   grep -E '[aeiou]$' ejercicio1
the land was flat, the highway straight and wide
Once I knew there was a love divine
as it washed over me
and the moon shone above me
```

c. Muestra las líneas que comiencen por vocal minúscula o mayúscula.

```
luciano   ~   grep -E '^[aeiouAEIOU]' ejercicio1
our faces as pale as the dirty snow
Once I knew there was a love divine
only the lamb as white as snow
And the water, it was icy
as it washed over me
and the moon shone above me
only poppies laugh under the crescent moon
As boys we would go hunting in the woods
every face we cannot know
if only a heart could be as white as snow
if only a heart could be as white as snow
```

d. Muestra las líneas que no contienen la letra `i`.

```
luciano   ~   grep -v 'i' ejercicio1


and the moon shone above me


the road refuses strangers
the land the seeds we sow


every face we cannot know
```

e. Muestra las líneas que contienen la letra `I` o la letra `w`.

```
luciano  ~  grep -E '[Iw]' ejercicio1
Where I came from there were no hills at all
the land was flat, the highway straight and wide
my brother and I would drive for hours
like we had years instead of days
our faces as pale as the dirty snow
Once I knew there was a love divine
then came a time I thought it knew me not
who can forgive forgiveness where forgiveness is not?
only the lamb as white as snow
And the water, it was icy
as it washed over me
Now this dry ground it bears no fruit at all
the land the seeds we sow
where might we find the lamb as white as snow?
As boys we would go hunting in the woods
now the wolves are very passing stranger
every face we cannot know
if only a heart could be as white as snow
if only a heart could be as white as snow
```

f. Muestra las líneas que contienen la letra `I` y la letra `w`.

```
luciano  ~  grep -E 'I.*w|w.*I' ejercicio1
Where I came from there were no hills at all
my brother and I would drive for hours
Once I knew there was a love divine
then came a time I thought it knew me not
```

g. Muestra las líneas que no contienen la letra `i` pero sí la letra `m`.

```
luciano  ~  grep -v 'i' ejercicio1 | grep 'm'
and the moon shone above me
```

h. Muestra las líneas que comiencen por `t` y acaben en `s`.

```
luciano  ~  grep -E '^t.*s$' ejercicio1
the road refuses strangers
to sleep the night shooting out the stars
```

i. Muestra las líneas que contienen palabras de 4 letras que acaben en `d`.

```
luciano  ~  grep -E '\b[a-zA-Z]{3}d\b' ejercicio1
the land was flat, the highway straight and wide
the road refuses strangers
the land the seeds we sow
where might we find the lamb as white as snow?
```

j. Muestra las líneas que contienen la palabra `it`.

```
luciano  ~  grep -w 'it' ejercicio1
then came a time I thought it knew me not
And the water, it was icy
as it washed over me
Now this dry ground it bears no fruit at all
```

k. Muestra la cantidad de líneas que contienen la palabra `it`.

```
luciano  ~  grep -wc 'it' ejercicio1
4
```

l. Muestra las líneas que contienen las palabras `it` o `if`.

```
luciano  ~  grep -E '\b(it|if)\b' ejercicio1
then came a time I thought it knew me not
And the water, it was icy
as it washed over me
Now this dry ground it bears no fruit at all
if only a heart could be as white as snow
if only a heart could be as white as snow
```

m. Muestra las líneas que comiencen por vocal minúscula y acaben con `n` o `w`.

```
luciano  ~  grep -E '^[aeiou].*[nw]$' ejercicio1
our faces as pale as the dirty snow
only the lamb as white as snow
only poppies laugh under the crescent moon
every face we cannot know
if only a heart could be as white as snow
if only a heart could be as white as snow
```

    n. Muestra las líneas que comiencen por vocal, contengan una b y acaben con w.

```
luciano  ~  grep -E '^[aeiou].*b.*w$' ejercicio1
only the lamb as white as snow
if only a heart could be as white as snow
if only a heart could be as white as snow
```

    o. Muestra las líneas que contengan la palabra `the`, pero no contengan las palabras `as` y `and` (estén en mayúscula o en minúscula).

```
luciano  ~  grep -w 'the' ejercicio1 | grep -E -v '\b(as|and)\b'
And the water, it was icy
only poppies laugh under the crescent moon
the road refuses strangers
the land the seeds we sow
As boys we would go hunting in the woods
to sleep the night shooting out the stars
now the wolves are very passing stranger
```

2. Muestra las líneas que contienen tu nombre de login (el nombre de usuario con el que inicias sesión), en el fichero `/etc/group`.

```
luciano  ~  grep "$(whoami)" /etc/group
adm:x:4:syslog,luciano
cdrom:x:24:luciano
sudo:x:27:luciano
dip:x:30:luciano
plugdev:x:46:luciano
users:x:100:luciano
lpadmin:x:114:luciano
sambashare:x:115:luciano
luciano:x:1000:
```

3. Muestra las líneas que contienen tu nombre de login (el nombre de usuario con el que inicias sesión), en los ficheros `/etc/passwd` y `/etc/group`.

```
luciano   ~   grep "$(whoami)" /etc/passwd /etc/group
/etc/passwd:luciano:x:1000:1000:Luciano,,,:/home/luciano:/bin/bash
/etc/group:adm:x:4:syslog,luciano
/etc/group:cdrom:x:24:luciano
/etc/group:sudo:x:27:luciano
/etc/group:dip:x:30:luciano
/etc/group:plugdev:x:46:luciano
/etc/group:users:x:100:luciano
/etc/group:lpadmin:x:114:luciano
/etc/group:sambashare:x:115:luciano
/etc/group:luciano:x:1000:
```

4. Muestra las líneas que contienen `bash` en los ficheros `.bashrc` y `.profile` que hay en tu HOME.

```
luciano   ~   grep 'bash' ~/.bashrc ~/.profile
/home/luciano/.bashrc:# enable bash completion in interactive shells
/home/luciano/.bashrc:  if [ -f /usr/share/bash-completion/bash_completion ]; then
/home/luciano/.bashrc:    . /usr/share/bash-completion/bash_completion
/home/luciano/.bashrc:  elif [ -f /etc/bash_completion ]; then
/home/luciano/.bashrc:    . /etc/bash_completion
/home/luciano/.bashrc:if [ -f /usr/share/powerline/bindings/bash/powerline.sh ]; then
/home/luciano/.bashrc:    source /usr/share/powerline/bindings/bash/powerline.sh
/home/luciano/.profile:# This file is not read by bash(1), if ~/.bash_profile or ~/.bash_login
/home/luciano/.profile:# see /usr/share/doc/bash/examples/startup-files for examples.
/home/luciano/.profile:# the files are located in the bash-doc package.
/home/luciano/.profile:# if running bash
/home/luciano/.profile:    # include .bashrc if it exists
/home/luciano/.profile:    if [ -f "$HOME/.bashrc" ]; then
/home/luciano/.profile:    . "$HOME/.bashrc"
```

5. Muestra las líneas que contienen la palabra `host` en todos los ficheros que hay en el directorio `/etc`. Redirige la salida de errores al dispositivo nulo.

```
luciano   ~   grep -r 'host' /etc 2>/dev/null
```