

Lab 4 Submission

Question 1

```
Tilix: lenjrg@cis106: ~
1/1 v + [ ] [ ]
1: lenjrg@cis106: ~ v
ncurses Tetris clone with a bastard algorithm

blockattack/stable 2.9.0-1+b1 amd64
puzzle game inspired by Tetris

blockout2/stable 2.5+dfsg1-2 amd64
Tetris like game (3D-tetris)

blocks-of-the-undead/stable 1.0-7 amd64
Tetris Attack clone with spooky undertones

blocks-of-the-undead-data/stable 1.0-7 all
Tetris Attack clone with spooky undertones - data files

bsdgames/stable 2.17-35 amd64
collection of classic textual unix games

crack-attack/stable 1.1.14-11 amd64
multiplayer OpenGL puzzle game like "Tetris Attack"

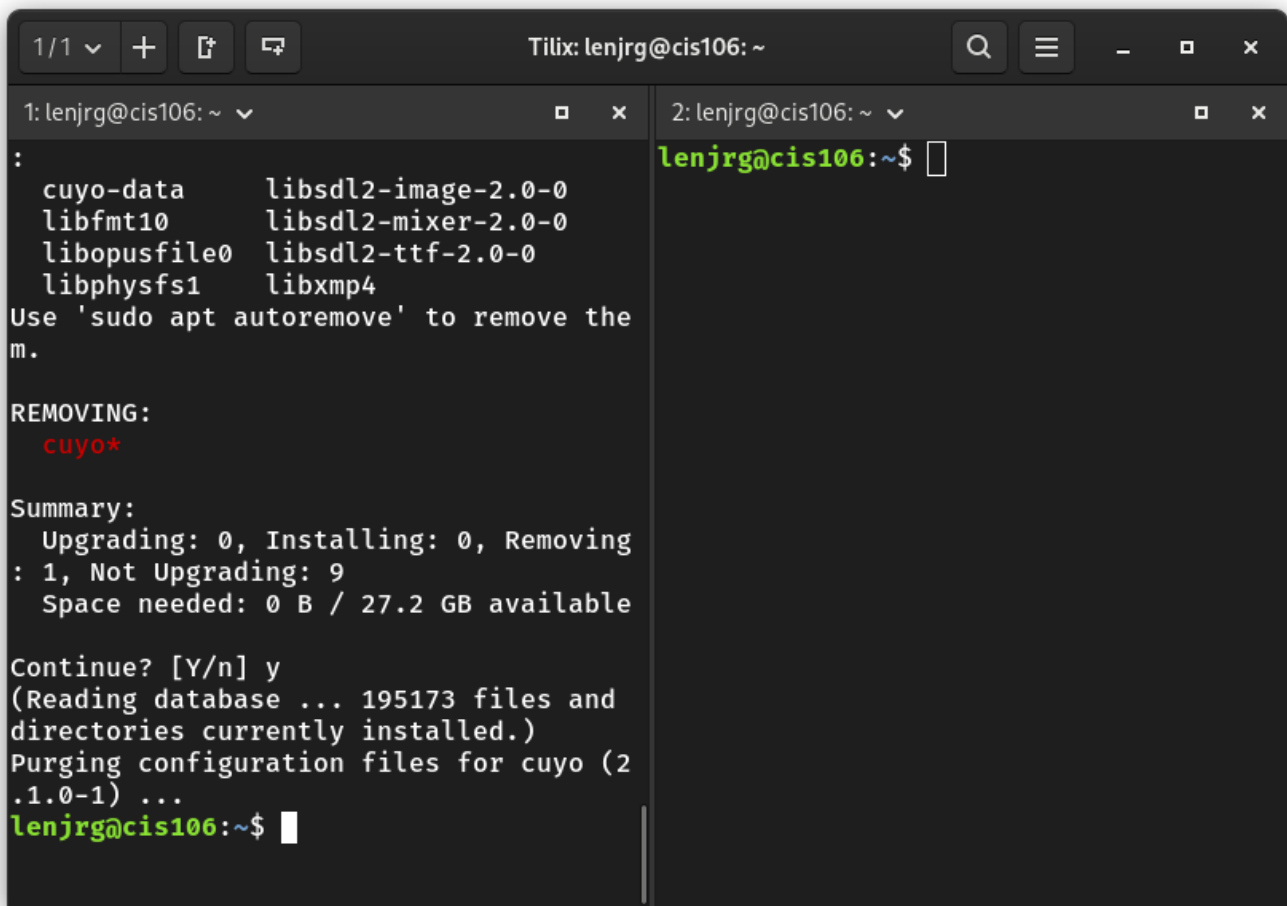
cuyo/stable 2.1.0-1 amd64
Tetris-like game with very impressive effects

lenjrg@cis106:~$ apt search --names-only "tetris"
games-tetris/stable 5 all
Debian's tetris-like games

vitetris/stable 0.59.1-3 amd64
Virtual terminal *tris clone

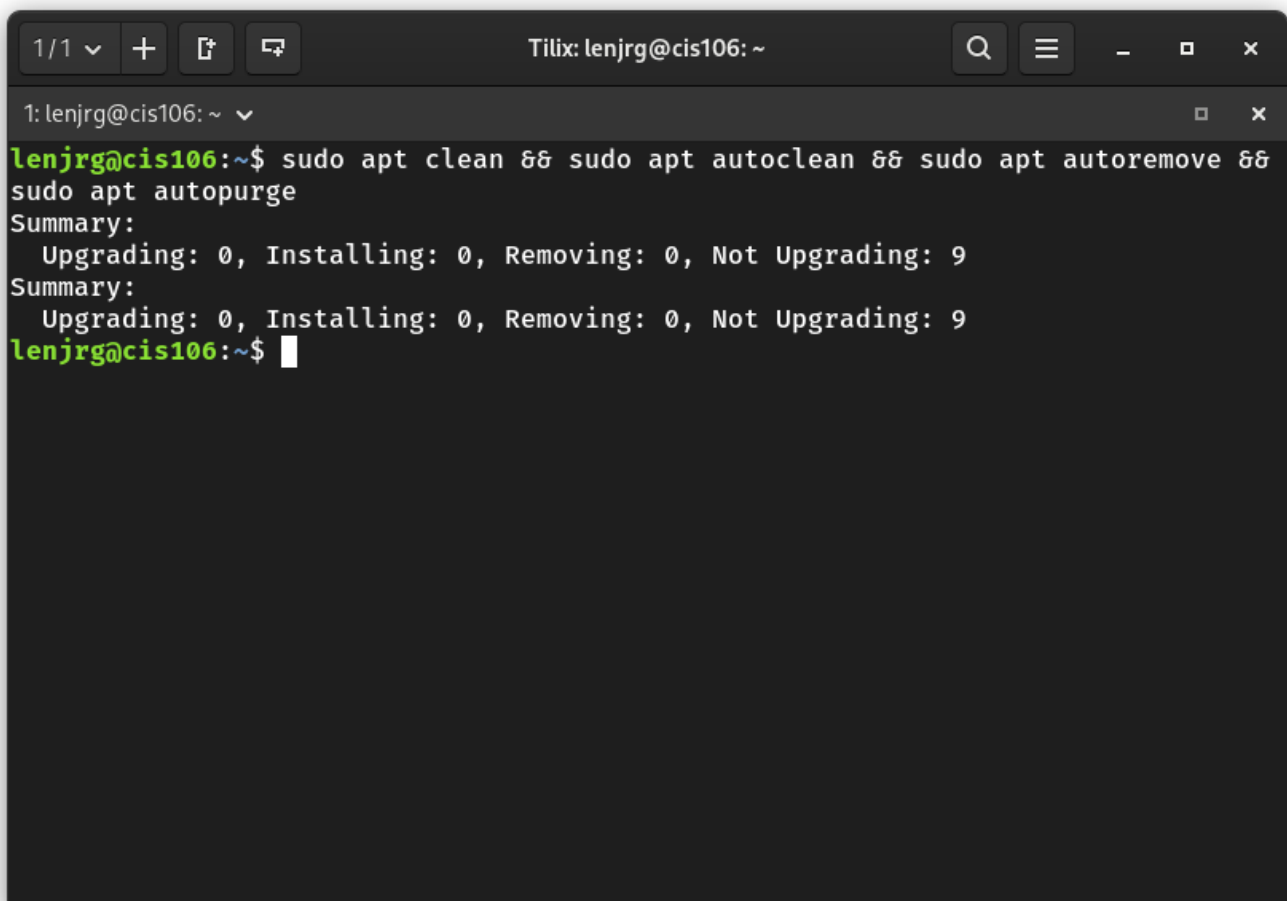
lenjrg@cis106:~$
```

```
Tilix: lenjrg@cis106: ~
1/1 v + [ ] [ ]
1: lenjrg@cis106: ~ v
2: lenjrg@cis106: ~ v
Setting up libmikmod3:amd64 (3.3.13-1) ...
Setting up libsdl1.2debian:amd64 (1.2.6
8-3) ...
Setting up libsdl-mixer1.2:amd64 (1.2.1
2-19+b1) ...
Setting up cuyo-data (2.1.0-1) ...
Setting up cuyo (2.1.0-1) ...
Setting up blockout2 (2.5+dfsg1-2) ...
Processing triggers for hicolor-icon-th
eme (0.18-2) ...
Processing triggers for gnome-menus (3.
36.0-3) ...
Processing triggers for libc-bin (2.41-
12) ...
Processing triggers for man-db (2.13.1-
1) ...
Processing triggers for mailcap (3.74)
...
Processing triggers for desktop-file-ut
ils (0.28-1) ...
lenjrg@cis106:~$
```



A terminal window titled 'Tilix: lenjrg@cis106: ~' with two tabs. The left tab shows the output of an apt command to remove the 'cuyo' package. It lists dependencies like libSDL2-image, libSDL2-mixer, libSDL2-ttf, libphysfs, and libxmp4. It shows the removal of 'cuyo*' and a summary of the operation. The right tab shows the prompt 'lenjrg@cis106:~\$'.

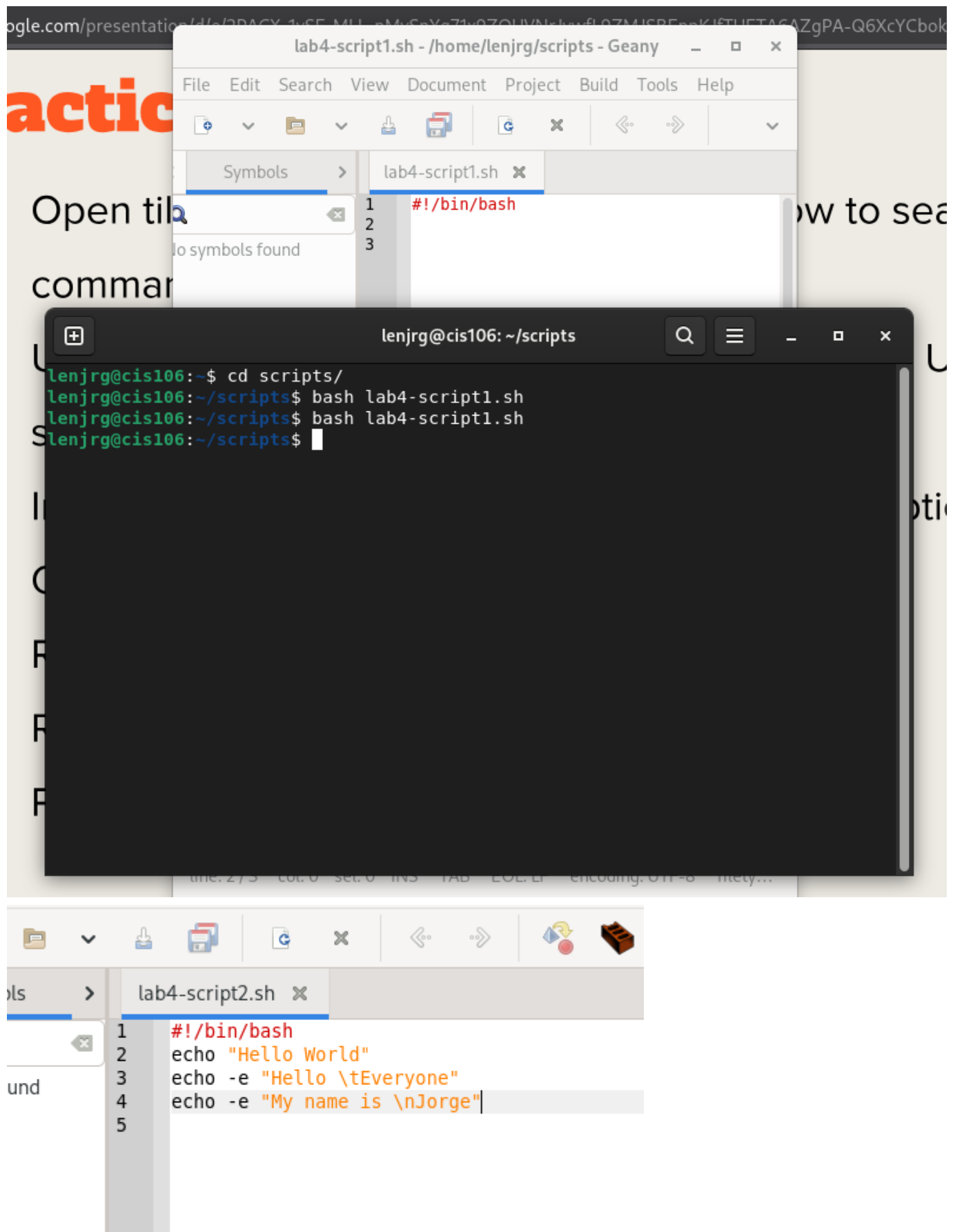
```
1: lenjrg@cis106: ~  
:  
  cuyo-data      libSDL2-image-2.0-0  
  libfmt10       libSDL2-mixer-2.0-0  
  libopusfile0   libSDL2-ttf-2.0-0  
  libphysfs1     libxmp4  
Use 'sudo apt autoremove' to remove the  
m.  
  
REMOVING:  
  cuyo*  
  
Summary:  
  Upgrading: 0, Installing: 0, Removing  
: 1, Not Upgrading: 9  
  Space needed: 0 B / 27.2 GB available  
  
Continue? [Y/n] y  
(Reading database ... 195173 files and  
directories currently installed.)  
Purging configuration files for cuyo (2  
.1.0-1) ...  
lenjrg@cis106:~$  
  
2: lenjrg@cis106: ~  
lenjrg@cis106:~$
```

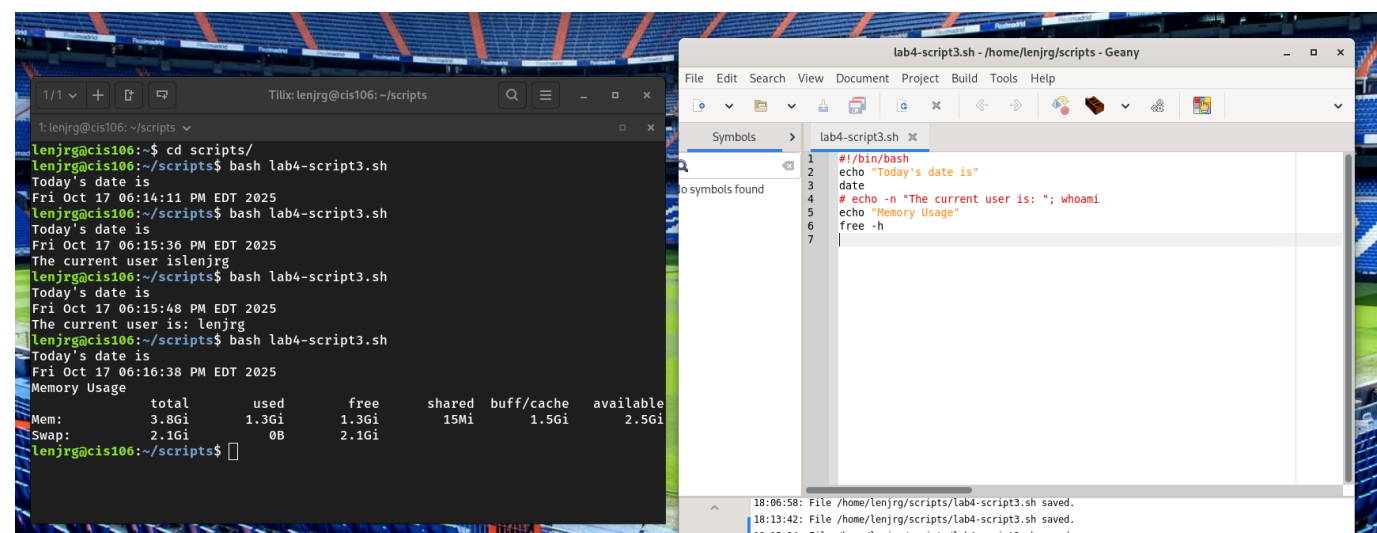


A terminal window titled 'Tilix: lenjrg@cis106: ~' with one tab. It shows the execution of a command to clean and autoremove packages. The output shows two summary lines indicating that 9 packages are not upgrading. The prompt 'lenjrg@cis106:~\$' is shown at the end.

```
1: lenjrg@cis106: ~  
lenjrg@cis106:~$ sudo apt clean && sudo apt autoclean && sudo apt autoremove &&  
sudo apt autopurge  
Summary:  
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 9  
Summary:  
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 9  
lenjrg@cis106:~$
```

Question 2





Question 3

challenge_lab4.sh - /home/lenjrg/cis106/labs/lab4 - Geany

File Edit Search View Document Project Build Tools Help

Symbols challenge_lab4.sh

```

1  #!/bin/bash
2  echo "_____ "
3  figlet "System"
4  echo "$LINE"
5  echo -e "DATE UTC:\t $(date --rfc-3339='seconds') "
6  echo -e "HOSTNAME:\t $(whoami)"
7  echo -e "UPTIME:\t $(uptime --pretty)"
8  echo -e "USER:\t $USER"
9  figlet "MEMORY"
10 free -h
11 figlet DISK
12 df -h /dev/sda1
13 echo "_____ "
14

```

no symbols found

Status

```

11:42:32: File /home/lenjrg/cis106/labs/lab4/challenge_lab4.sh saved.
11:42:52: File /home/lenjrg/cis106/labs/lab4/challenge_lab4.sh saved.
11:51:14: File /home/lenjrg/cis106/labs/lab4/challenge_lab4.sh saved.
12:00:20: File /home/lenjrg/cis106/labs/lab4/challenge_lab4.sh saved.
12:02:39: File /home/lenjrg/cis106/labs/lab4/challenge_lab4.sh saved.
12:03:44: File /home/lenjrg/cis106/labs/lab4/challenge_lab4.sh saved.

```

line: 12 / 14 col: 15 sel: 0 INS TAB EOL: LF encoding: UTF-8 filetype: Sh scope: unknown

Applications Oct 20 12:04 PM 26% 56% 0% 0.0 kB 0.0 kB 40 25%

Week Report 3 - Lab 3 an x +

www.youtube.com/watch?v=0FKSH4DmR4

Tilix: lenjrg@cis106: ~

```

1: lenjrg@cis106: ~
lenjrg@cis106:~$ bash ~/cis106/labs/lab4/challenge_lab4.sh

```

```

System
DATE UTC:      2025-10-20 12:03:48-04:00
HOSTNAME:      lenjrg
UPTIME:        up 2 hours, 35 minutes
USER:          lenjrg

MEMORY
Mem:            total      used      free      shared  buff/cache  available
Swap:          3.8Gi      2.1Gi      661Mi      61Mi      1.3Gi      1.7Gi

DISK
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda1       38G   9.6G   26G   28% /

```

```

lenjrg@cis106:~$

```

2: lenjrg@cis106: ~

uname(1) User Commands UNAME(1)

NAME

uname - print system information

SYNOPSIS

uname [OPTION]...

DESCRIPTION

Print certain system information. With no OPTION, same as -s.

-a, --all

print all information, in the following order, except omit -p and -i if unknown:

-s, --kernel-name

print the kernel name

-n, --nodename

print the network node hostname

-r, --kernel-release

print the kernel release

-v, --kernel-version

print the kernel version

-m, --machine

print the machine hardware name

-p, --processor

print the processor type (non-portable)

Manual page uname(1) line 1 (press h for help or q to quit)

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