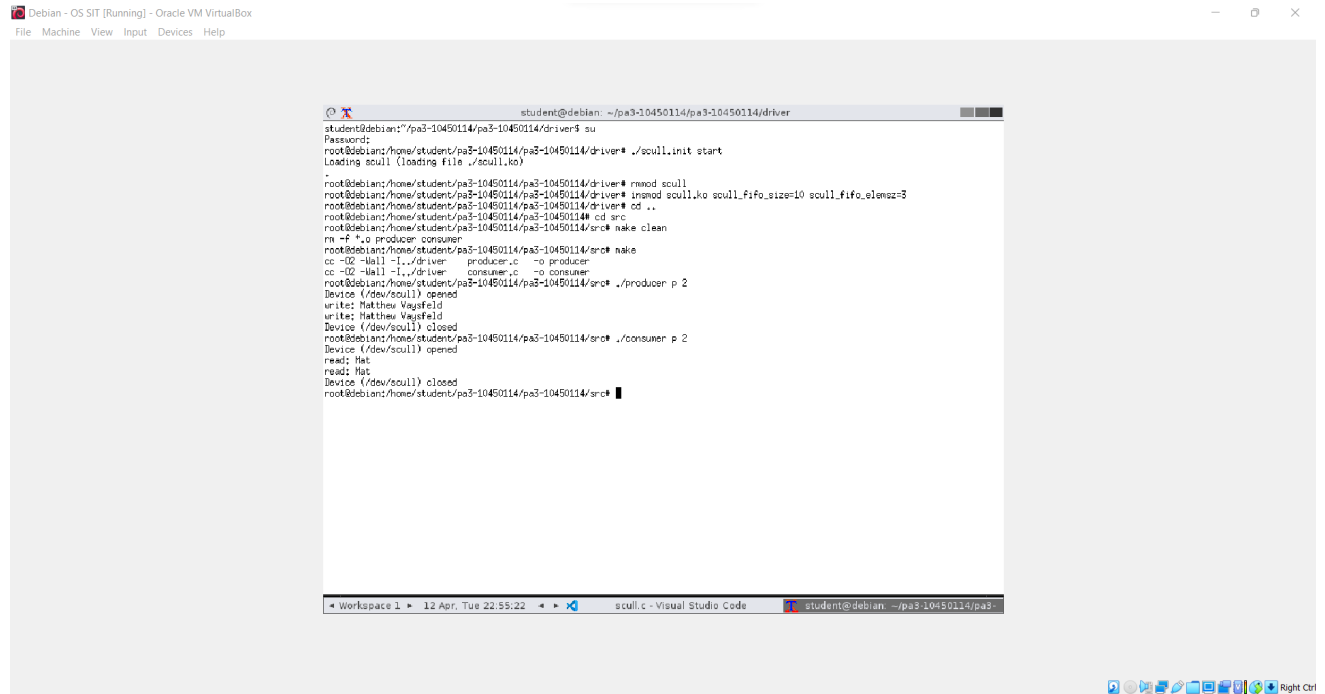


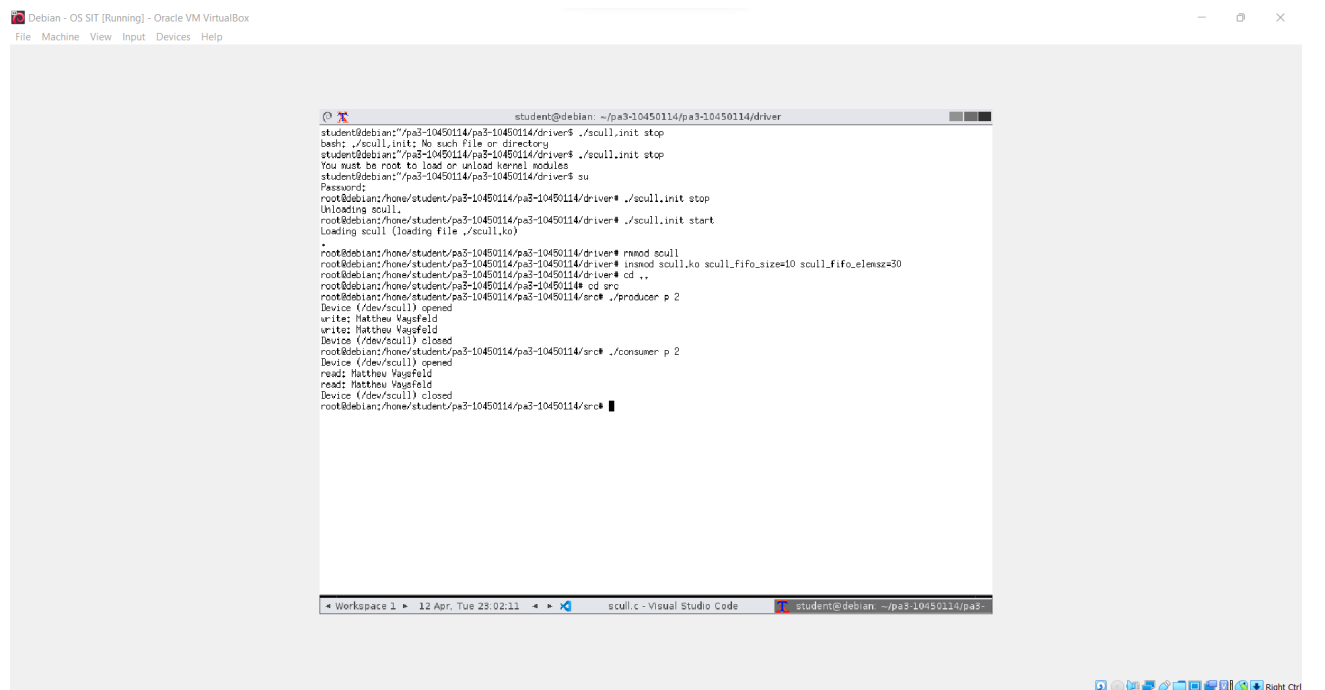
Matthew Vaysfeld

I pledge my honor that I have abided by the Stevens Honor System.



```
student@debian: ~/pa3-10450114/pa3-10450114/driver
student@debian:~/pa3-10450114/pa3-10450114/driver$ su
Password:
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# ./scull.init start
Loading scull (loading file ./scull.ko)
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# rmmod scull
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# insmod scull.ko scull.fifo_size=10 scull.fifo_elemsz=3
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# cd ..
root@debian:/home/student/pa3-10450114/pa3-10450114# cd src
root@debian:/home/student/pa3-10450114/pa3-10450114/src# make clean
rm -f *.o producer consumer
root@debian:/home/student/pa3-10450114/pa3-10450114/src# make
cc -O2 -Wall -I../driver -c producer.c -o producer.o
cc -O2 -Wall -I../driver -c consumer.c -o consumer.o
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./producer p 2
Device (/dev/scull) opened
write: Matthew Vaysfeld
Device (/dev/scull) closed
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./consumer p 2
Device (/dev/scull) opened
read: Mat
read: Mat
Device (/dev/scull) closed
root@debian:/home/student/pa3-10450114/pa3-10450114/src#
```

D1



```
student@debian: ~/pa3-10450114/pa3-10450114/driver
student@debian:~/pa3-10450114/pa3-10450114/driver$ ./scull.init stop
bash: ./scull.init: No such file or directory
student@debian:~/pa3-10450114/pa3-10450114/driver$ ./scull.init stop
You must be root to load or unload kernel modules
student@debian:~/pa3-10450114/pa3-10450114/driver$ su
Password:
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# ./scull.init stop
Unloading scull.
Loading scull (loading file ./scull.ko)
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# rmmod scull
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# insmod scull.ko scull.fifo_size=10 scull.fifo_elemsz=30
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# cd ..
root@debian:/home/student/pa3-10450114/pa3-10450114# cd src
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./producer p 2
Device (/dev/scull) opened
write: Matthew Vaysfeld
Device (/dev/scull) closed
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./consumer p 2
Device (/dev/scull) opened
read: Matthew Vaysfeld
read: Matthew Vaysfeld
Device (/dev/scull) closed
root@debian:/home/student/pa3-10450114/pa3-10450114/src#
```

D2

Debian - OS SIT [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
student@debian: ~/pa3-10450114/pa3-10450114/driver
student@debian:~/pa3-10450114/pa3-10450114/driver$ su
Password:
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# ./scull.init stop
Unloading scull.
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# ./scull.init start
Loading scull (loading file ./scull.ko)
.
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# rmmod scull
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# insmod scull.ko scull_fifo_size=2 scull_fifo_elems=30
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# cd ..
root@debian:/home/student/pa3-10450114/pa3-10450114# cd src
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./producer p 5
Device (/dev/scull) opened
write: Matthew Vasefeld
write: Matthew Vasefeld
write: Matthew Vasefeld
write: Matthew Vasefeld
write: Matthew Vasefeld
^C
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./consumer p 5
Device (/dev/scull) opened
read: Matthew Vasefeld
read: Matthew Vasefeld
^C
root@debian:/home/student/pa3-10450114/pa3-10450114/src#
```

Workspace 1 12 Apr, Tue 23:06:58 scull.c - Visual Studio Code student@debian: ~/pa3-10450114/pa3-

D3

Debian - OS SIT [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
student@debian: ~/pa3-10450114/pa3-10450114/driver
student@debian:~/pa3-10450114/pa3-10450114/driver$ ./scull.init stop
bash: ./scull.init: No such file or directory
student@debian:~/pa3-10450114/pa3-10450114/driver$ su
Password:
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# ./scull
Unloading scull.
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# ./scull
Loading scull (loading file ./scull.ko)
.
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# rmmod s
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# cd ..
root@debian:/home/student/pa3-10450114/pa3-10450114# cd src
root@debian:/home/student/pa3-10450114/pa3-10450114/src# cd ..
root@debian:/home/student/pa3-10450114/pa3-10450114# cd driver
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# insmod
scull.ko scull_fifo_size=2 scull_fifo_elems=30
root@debian:/home/student/pa3-10450114/pa3-10450114/driver# cd ..
root@debian:/home/student/pa3-10450114/pa3-10450114# cd src
root@debian:/home/student/pa3-10450114/pa3-10450114/src# ./producer
p 5
Device (/dev/scull) opened
write: Matthew Vasefeld
write: Matthew Vasefeld
write: Matthew Vasefeld
write: Matthew Vasefeld
write: Matthew Vasefeld
Device (/dev/scull) closed
root@debian:/home/student/pa3-10450114/pa3-10450114/src#
```

```
student@debian: ~/pa3-10450114/pa3-10450114/src
student@debian:~/pa3-10450114/pa3-10450114/src$ ./consumer p 5
Device (/dev/scull) opened
read: Matthew Vasefeld
read: Matthew Vasefeld
read: Matthew Vasefeld
read: Matthew Vasefeld
Device (/dev/scull) closed
student@debian:~/pa3-10450114/pa3-10450114/src#
```

Workspace 1 12 Apr, Tue 23:18:30 scull.c - Visual Studio Co student@debian: ~/pa3- student@debian: ~/pa3-

D4

