PA5 Screenshots Connor Ivancik

I pledge my honor that I have abided by the Stevens Honors System

5.1

Here I am showing that when size is 10 and elemsz is 3. Only 3 bytes will be copied and stored

5.2

Here i am showing how when size is 10 and elemsz is 30, the entire string is copied and stored

```
civancik@debian:~/civancik-pa5/src$ sudo insmod ../driver/scull.ko scull_fifo_size=10 scull_fifo_elemsz=
30
civancik@debian:~/civancik-pa5/src$ ./producer p 2
Device (/dev/scull) opened
write: Connor Ivancik
write: Connor Ivancik
Device (/dev/scull) closed
civancik@debian:~/civancik-pa5/src$ ./consumer p 2
Device (/dev/scull) opened
read: Connor Ivancik
read: Connor Ivancik
Device (/dev/scull) closed
civancik@debian:~/civancik-pa5/src$ id
uid=1000(civancik) gid=1000(civancik) groups=1000(civancik),27(sudo),999(vboxsf)
civancik@debian:~/civancik-pa5/src$
```

5.3

Here this shows how producer and consumer are both paused by the semaphore when there is no more room to read or write

```
civancik@debian:-/civancik-pa5/src$ sudo insmod ../driver/scull.ko scull_fifo_size=2 scull_fifo_elemsz=3
0
civancik@debian:-/civancik-pa5/src$ ./producer p 5
Device (/dev/scull) opened
write: Connor Ivancik
ccivancik@debian:-/civancik-pa5/src$ ./consumer p 5
Device (/dev/scull) opened
read: Connor Ivancik
read: Connor Ivancik
cc
civancik@debian:-/civancik-pa5/src$ id
uid=1000(civancik) gid=1000(civancik) groups=1000(civancik),27(sudo),999(vboxsf)
civancik@debian:-/civancik-pa5/src$ |
```

5.4

Here, this shows how when both code are ran at the same time in different terminals with the above settings, the semaphores will use up and down correctly to make room in the que to read and write

