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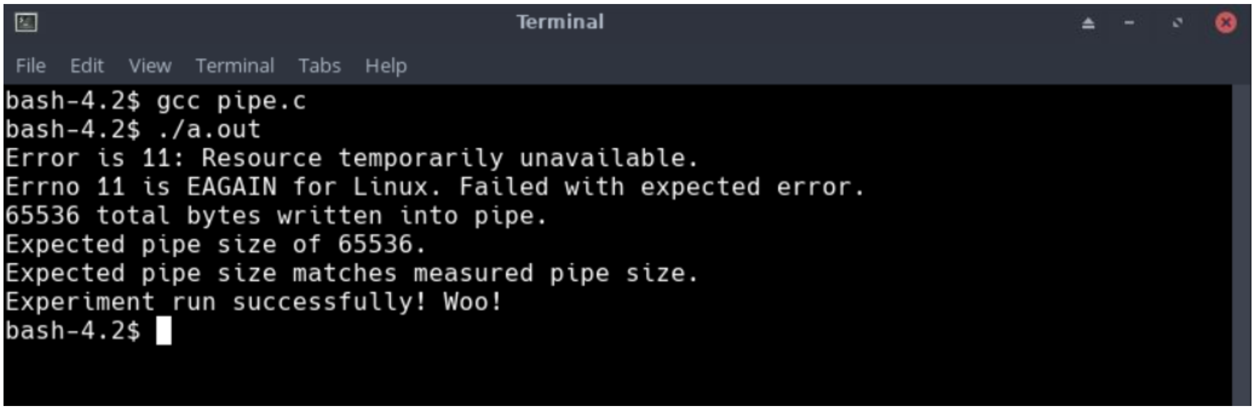
ECE 357
HW 3 Problems 3 & 4
Sample Run
11/12/21

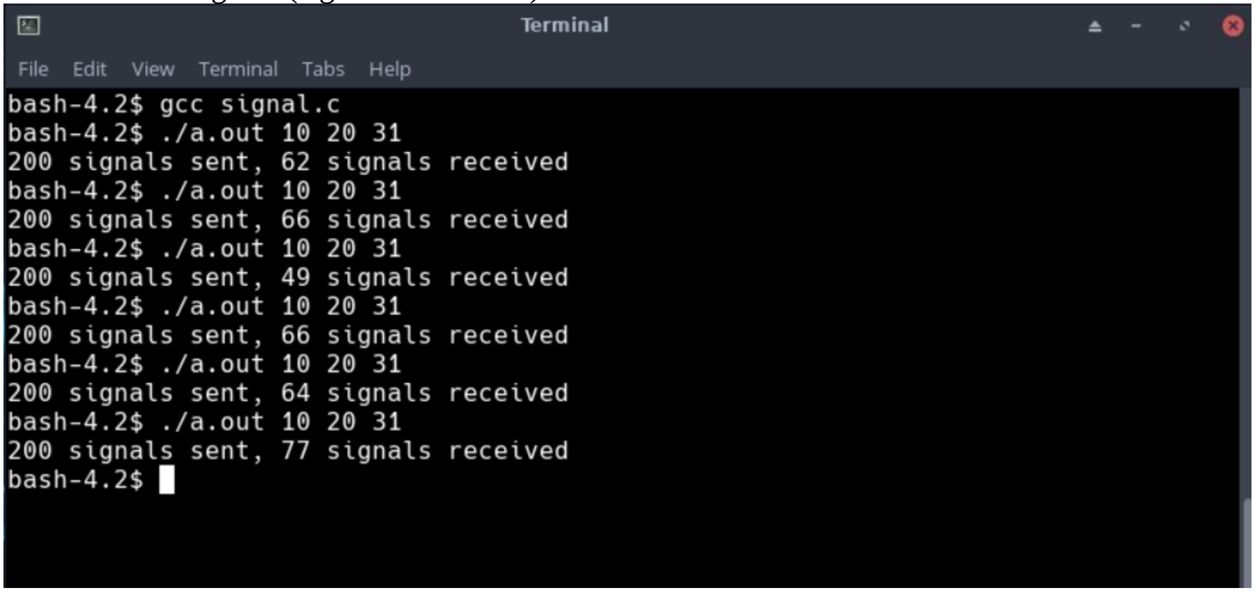
Problem 3:



```
bash-4.2$ gcc pipe.c
bash-4.2$ ./a.out
Error is 11: Resource temporarily unavailable.
Errno 11 is EAGAIN for Linux. Failed with expected error.
65536 total bytes written into pipe.
Expected pipe size of 65536.
Expected pipe size matches measured pipe size.
Experiment run successfully! Woo!
bash-4.2$
```

Problem 4:
The first number is the number of “killer” children, then the number of signals each child sent, and finally the signal number.

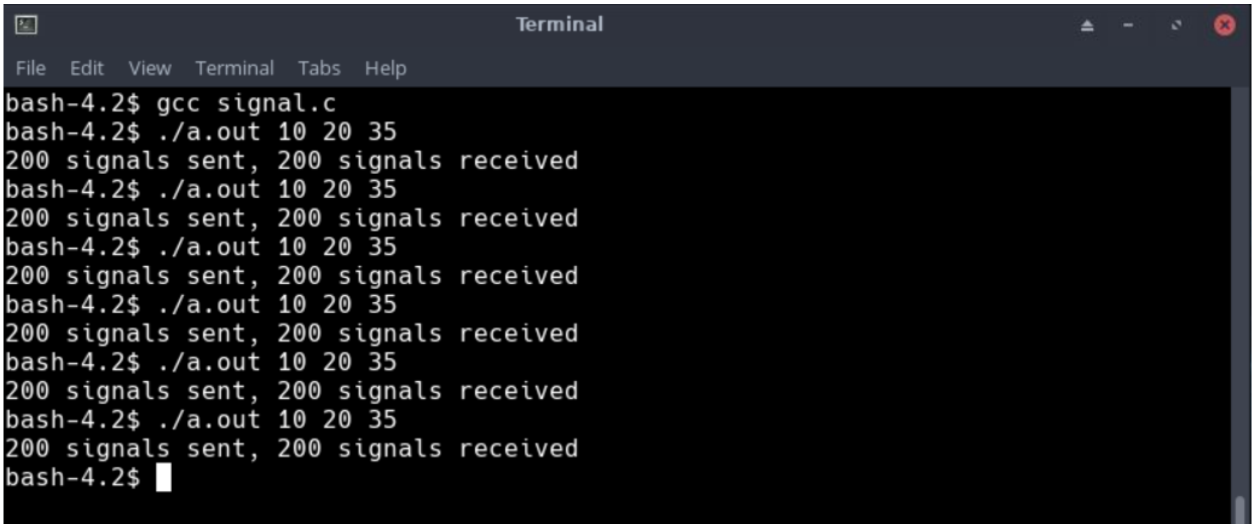
Non-real time signals (signal number<32)



```
bash-4.2$ gcc signal.c
bash-4.2$ ./a.out 10 20 31
200 signals sent, 62 signals received
bash-4.2$ ./a.out 10 20 31
200 signals sent, 66 signals received
bash-4.2$ ./a.out 10 20 31
200 signals sent, 49 signals received
bash-4.2$ ./a.out 10 20 31
200 signals sent, 66 signals received
bash-4.2$ ./a.out 10 20 31
200 signals sent, 64 signals received
bash-4.2$ ./a.out 10 20 31
200 signals sent, 77 signals received
bash-4.2$
```

We see that because of job scheduling, each time while 200 signals are sent, only a random number of signals less than 200 are received.

Real time signals (signal number>=32)



```
bash-4.2$ gcc signal.c
bash-4.2$ ./a.out 10 20 35
200 signals sent, 200 signals received
bash-4.2$ ./a.out 10 20 35
200 signals sent, 200 signals received
bash-4.2$ ./a.out 10 20 35
200 signals sent, 200 signals received
bash-4.2$ ./a.out 10 20 35
200 signals sent, 200 signals received
bash-4.2$ ./a.out 10 20 35
200 signals sent, 200 signals received
bash-4.2$ ./a.out 10 20 35
200 signals sent, 200 signals received
bash-4.2$ 
```

We see that for a real time signal, every signal that is sent is received.