Midterm#3

- Write a two programs, the *receiver* and the *sender,* which both:
  - access a shared memory segment
  - coordinate by means of SYSV semaphores
  - implement the “producer-consumer” paradigm

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- The *receiver:*
  - Opens a stream socket on port 53333
  - Waits for incoming connections from clients
  - Receives fixed sized packets (e.g. 1KB) from clients
  - Stores them in the shared memory buffer

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- The *sender:*
  - Opens a stream socket on port 53334
  - Waits for incoming connections from clients
  - Retrieves fixed sized packets (e.g. 1KB) from shared memory buffer
  - Sends them to clients

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- You can use the provided clients (csend.c and crecv.c) to test your implementation.
- They:
  - Take a single cmdline argument (the number of packets to send/receive)
  - Perform some trivial checks on message contents
  - Are **not** guaranteed to be bug-free 
- Optional: test with multiple *concurrent* clients

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- Example:

```
$ cc -o csend csend.c
$ cc -o crecv crecv.c
$ …(start your programs) …
$ ./crecv 1000 &
$ ./csend 1000
```