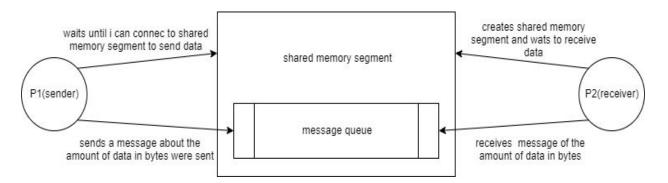
Design of Sender and Receiver



- 1) Receiver process creates shared memory segment and message queue
 - a) Using functions from #include <sys/shm.h> to create memory address space
- 2) **Sender process** connects to shared memory segment and sends data
 - Sender process also connects to message queue (bounded capacity) and sends the amount of data in bytes
- 3) **Receiver process** processes the data and receives the entire file
 - Receiver process also receives the message of the amount of data transferred
- 4) Once the sender process has sent all of its data and receiver process has processed all the data OR If a user has pressed CTRL + C:
 - a) A cleanup function is called to deallocate the shared memory segment and message queue, then the whole program terminates