```
after the other,
pjoshi@ada:~/cs510/p4$ blitz -g os
Beginning execution...
================= KPL PROGRAM STARTING
Initializing Thread Scheduler...
                                                                                                                                waitingThread list of
                                                                                                                     condition variable contains
Initializing Thread Manager..
Initializing Frame Manager..
Consumer-1 running
Consumer-2 running
Consumer-3 running
Producer-A running
Producer-A A
Consumer-1 A
Producer-A running
Producer-A A
Consumer-1 A
Producer-B running
Producer-B running
Producer-B Consumer-3 B
Initializing Thread Manager...
                                                                                                                          Consumer 1, 2, 3 in that
                                                                                                                             order. Producer A runs,
                                                                                                                    signals the oldest thread on
                                                                                                                                 waitingList which is
                                                                                                                         consumer 1, so consumer 1
                                                                                                                       runs next. Here Producer A
 Consumer-3 B
 Producer-C
                                                                                                                     hands over monitor mutex to
Producer-C
Consumer-1 running
                                                                                                                       Consumer 1 by signaling it
Consumer-1
Producer-A running
                                                                                                                                               using Hoare
Producer-A A
Producer-D running
                                                                                                                       semantics. Producer A gives
Producer-D D
Consumer-2 running
Consumer-2 A
                                                                                                                                away monitor mutex to
                 running
E
Producer-E
Producer-E
                                                                                                                       Consumer 1, hence no other
Consumer-3 running
Consumer-3 D
                                                                                                                                consumer can come and
Producer-B
Producer-B
Producer-C
Producer-C
                 running
B
                                                                                                                                consume the buffer in
                 running
C
                                                                                                                     between.State of the buffer
                 running
Producer-A
Producer-A
                                                                                                                                      is preserved. This
Consumer-1 running
Consumer-1
                running
D
                                                                                                                    demonstrates Hoare Semantics
Producer-D
Producer-D
                                                                                                                                                     behavior
Consumer-2 running
Consumer-3 running
Consumer-3 C
Producer-E running
Producer-E E
Producer-R
Producer-B running
Producer-C running
Producer-C running
Producer-C running
Producer-C running
Consumer-1 running
Consumer-1 running
Consumer-1 running
Consumer-2 producer-D running
Consumer-2 running
Consumer-3 running
Consumer-3 running
Consumer-3 running
Producer-E running
Producer-E running
Producer-E running
Consumer-1 running
Producer-E running
Consumer-1 running
Consumer-1 running
Consumer-1 running
Consumer-1 running
Consumer-1 running
Consumer-2 running
Consumer-3 running
Consumer-3 running
Producer-C running
Consumer-1 running
Producer-C running
***** A 'wait' instruction was executed and no more interrupts are scheduled... halting emulation! *****
Done! The next instruction to execute will be: 001138: 00000000 ret
Number of Disk Reads = 0
Number of Disk Writes = 0
Instructions Executed = 665528
Time Spent Sleeping = 0
Total Elapsed Time = 665528
pjoshi@ada:-/cs510/p4$
```

After 3 consumers run one