Producer – Consumer problem

It is also called bounded buffer problem

Consider having a critical section (buffer)

1. Producer Thread – Producer produces the data in biuffer
2. Consumer thread – Consumer consumes the data from filled spots

Problem:

CS Buffer – is shared memory. So we want synch way for producer thread and consumer thread.

1. Producer must not insert in buffer if it is full
2. Consumer must not pick data when buffer is empty

Soln using semaphore

1. M, mutex - Binary semaphore - used to cquire lock on buffer
2. Empty – a counting semaphore - initial value is n.
   1. Tracks empty slots
3. Full - > tracks filled slots
   1. Initial = 0
4. 