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Course: Bridge (Master of Science in Computer Science)

Assignment: CST – 221 Producers and Consumers

Date: 06/14/2020

# Approach to implementation and its reasoning of Producers and Consumers using pthread

Problem: Solve the producer and consumer problem.

Solution: Producer and consumer implementation using pthread mutex and condition. To achieve this, we force the consumer to sleep if either there is no items in the buffer or if it is at the same index of the last item put into the buffer. We need to check when both producer and consumer get to the end of the buffer to keep the loop going. When they reach the end, reset to starting conditions without changing the items.

## Git Server Repository Link:

<https://github.com/MubasherBegum/CST-221/tree/master/Week2/ProducerConsumer>

Program execution results: