CS 202: IT Workshop I
Assignment X

Implement the producer-consumer in Java for a fixed size buffer.

Problem description: There will be two threads, the producer and the consumer. They share a common, fixed-size buffer used as a queue. The producer's job is to generate data, put it into the buffer and the consumer's job is to consume the data (i.e., removing it from the buffer), one item at a time. The problem is to make sure that the producer won't add data into the buffer if it is full and that the consumer won't remove data from an empty buffer.

The buffer size will be given by user.

The code should display the item produced by the producer and the item consumed by the consumer at each step.