Chapter 14: Building Custom Synchronizers

Exercise 1

Implement a ThreadGate (see page 305) using AbstractQueueSynchronizer and without using synchronized or explicit locks. *Optional:* Do it using only the state in the AbstractQueueSynchronizer.

Exercise 2

Implement a BoundedBuffer which, in addition to get() and put(), has the method getBatch() which fetches 5 objects. As few theads as possible should be notified about changes to the buffer. Specifically, threads blocking in getBatch() must not be notified when there are less than 5 elements in the buffer. Note: put() is allowed to notify two threads.