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Multi-Threaded Producer Consumer

1. Windows:
   1. CPU time: 0.546875 seconds
   2. Wall time: 1.227 seconds
2. TJW:
   1. CPU time: 0.06 seconds
   2. Wall time 0.14 seconds

* This method is faster than the single threaded version made in project 1. Again, the CPU time is significantly less than the Wall time, since the CPU needs to do very little processing per thread, while the wall time counts from start to finish. The difference between the Windows and TJW times can be explained by differences in CPUs, how many other processes are running, and the fact that the Windows version reads and writes to the same drive, so it cannot take as much advantage of multithreading.