

CSCI 5408 DATA MANAGEMENT AND WAREHOUSING  
ASSIGNMENT – 2

SUBMITTED TO: PROF. SAURABH DEY

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GITLAB LINK:  
<https://git.cs.dal.ca/doshi/csci-5408-s2021-b00883311-dhruv-doshi/-/tree/master/A2>

## PROBLEM 2 TASK 2

There are two files named transaction\_initial.java and transaction\_after.java in which the driver code is stored in gitlab.

The code is written in the manner through which everything is saved in the log file named in the code.

I had two option to move further

- Stack
- Queue

I choose the Queue option because for the sequencing task I thought queue would be the better suitable option.

For development of queue I am using LinkedList as it is best possible data structure to work with queues.

```
pViggseFqneQWmHGuburgvdahB8NmnMh nmC4LyoeZxD1x5v0oyFRfMR5dlbDkD1q 1151
Read from thread2
pViggseFqneQWmHGuburgvdahB8NmnMh nmC4LyoeZxD1x5v0oyFRfMR5dlbDkD1q 1151
Update from thread1
Read from thread3
pViggseFqneQWmHGuburgvdahB8NmnMh nmC4LyoeZxD1x5v0oyFRfMR5dlbDkD1q 1151
```

```
pViggseFqneQWmHGuburgvdahB8NmnMh nmC4LyoeZxD1x5v0oyFRfMR5dlbDkD1q 1151
ProcessList nullProcessList nullProcessList nullProcessList nullProcessListnul
pViggseFqneQWmHGuburgvdahB8NmnMh nmC4LyoeZxD1x5v0oyFRfMR5dlbDkD1q 1151
ProcessList nullProcessList nullProcessListnull show processlistProcessList nu
| null null null nullnull show processlistRead from thread3
pViggseFqneQWmHGuburgvdahB8NmnMh nmC4LyoeZxD1x5v0oyFRfMR5dlbDkD1q 1151
ProcessList nullProcessList nullProcessList nullProcessListnull show processli
```

Here in images the output is being demonstrated that how the code is working on my pc. Here as we can see for the initial image everything is working but for the next image there as issues with null values because of the locking.