

## Exercise 2

Perform a manual simulation of an (M,N)-inventory.

The system has the following properties.

1. The inventory can keep 15 items, i.e.  $M=15$ .
2. The interarrival times between the customer orders are 1-6.
3. Every customer order is of 1-4 items.
4. If the inventory contains less items than the number of ordered items, the complete order is lost.
5. The inventory is reviewed every 12 hours, i.e.  $N=12$ . When the review is performed, an order to bring the current inventory level to full is made. It takes 4-6 hours for the replenish to arrive.
6. The simulation stops after 36 h.

Use the following state variables

- $I(t)$  – The number of items in the inventory at time  $t$ .

Use the following events and event notices

- $O(t, n)$  – Customer order at time  $t$  of  $n$  items. When the event is executed, the following customer order event is scheduled.
- $R(t)$  – Review of inventory at time  $t$ . When the event is executed, the following review event and the replenish event (see below) is scheduled. The replenish event is scheduled with  $m = 15 - I(t)$ , i.e. just enough to fill up the inventory based on current inventory level.
- $F(t, m)$  – The inventory receives a replenish at time  $t$  of  $m$  items.
- $E(36)$  – Exit event at time 36.

If two events occur at the same time, they are executed in the order they appear in the list.

Keep track of the following cumulative statistics

- $L(t)$  – Cumulative number of items not sold due to lost orders at time  $t$ .

Use the following data when you do your simulation:

- Interarrival times: 3, 4, 1, 3, 2, 4, 5, 3, 4, 1, 3, 5, 3, 4, 6.
- Items ordered per order: 4, 2, 4, 3, 3, 1, 4, 1, 4, 4, 2, 1, 4, 1, 2.
- Times from inventory review to replenish: 6, 4, 6, 5, 5, 5, 5, 5, 4, 4, 6, 4, 4, 4, 6.

Use the following initial conditions:

- The inventory is full at time  $t = 0$ .
- The time for the first order is the first number in the list of interarrival times.

This means that at  $t = 0$ , we have  $I(0) = 15$ , and the FEL contains the following events:  $O(3, 4)$ ,  $R(12)$ ,  $E(36)$ .

Your answer should consist of a simulation table with comments of what happens at the different time steps in a separate column. **Be careful so you don't make any mistakes!**

# Manual Simulation Answer

**Clifford Lane**



**Manual Simulation Answer:**

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