

# Manual Simulation Using Event Scheduling

- Grocery Store Example: Single-channel queue. Reconsider the single checkout counter problem.
  - The system consists of those customers in the waiting plus the one (if any) checking out.
  - For this example, a stopping time of 60 minutes is set.
  - Model components:
    - System state:  $LQ(t)$  – # of customers in line at time  $t$ ,  $LS(t)$  - # being served at time  $t$ .
    - Entities: the server and customers are not explicitly modeled, except in terms of the state variables.
    - Events: arrival (A), departure (D), stopping event (E).
    - Event notices (event type, event time):
      - (A,  $t$ ), representing an arrival event to occur at future time  $t$ ,
      - (D,  $t$ ), representing a customer departure at future time  $t$ ,
      - (E, 60), representing the simulation stop event at future time 60.
    - Activities: interarrival time and service time.
    - Delay: customer time spent in waiting line.

# Manual Simulation Using Event Scheduling

**BM King**



## **Manual Simulation Using Event Scheduling:**

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