**LAB 04**

**Linked Lists**

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Problem 1: Simple Stack Application

**Investigating the Effects**

* **Service Time**:
  + If the service time is longer than the customer join rate, the queue will grow over time.
  + If the service time is shorter, the queue will shrink or remain stable.
* **Join Rate**:
  + A faster join rate (smaller customerJoinRate) will cause the queue to grow faster.
  + A slower join rate will allow the queue to stabilize or shrink.