Queues
Part 02
• First in First Out (FIFO)
  – Processing Data in Order
  – Time
  – “Waiting in a Line”

• Queue Operations
  – Enqueue: Add new element to the end of the queue
  – Dequeue: Remove the first element from the queue
  – Peek: Observe but not remove the first element in a queue
  – Print: Print all elements in a Queue
Example
Secret Time:
Secret Time: 15
Current Time: 15
Secret Time: 15
Current Time: 15
Secret Time: 15
Current Time: 15
Secret Time: 15
Current Time: 10
Secret Time: 15
Current Time: 7
Secret Time: 15
Current Time: 3
Secret Time: 15
Current Time: 1
Secret Time: 15
Current Time: -4
Secret Time: 15
Current Time: -4
Secret Time:23
Current Time:23
Secret Time: 23
Current Time: 23
Queue

Head

a b c

Tail
Queue

Head

Tail

Secret Time: 15
Current Time: 15

a b c
Queue

Head

Tail

Secret Time: 15

Current Time: 15

Current Player
Queue

Head

Tail

Secret Time: 15
Current Time: 10

Current Player: 5

a b c
Queue

- Head: b
- Current Player: c
- Tail: a

Secret Time: 15
Current Time: 10
Queue

Head

Tail

Secret Time: 15
Current Time: 10

Current Player
A Few Turns Later
Queue

Current Player: 5

Current Time: -4

Secret Time: 15
Queue

Head

Secret Time: 15

Tail

Current Time: -4

Current Player