QUEUES

QUEUE ADT

- Collection of elements
- First in first out (FIFO)
- Primary operations:
 - enqueue (add to end)
 - dequeue (remove from front)
- Like stacks, linear/sequential aka, have an ordering

REAL LIFE EXAMPLES:

- Lines anywhere:
 - store
 - amusement park
 - sports arenas

WHEN TO USE?

- Like stacks
- Depends on the problem
- Not useful for all problems
- Really useful for some problems, algorithms
- Again, think about problem/algorithm first

CODING APPLICATIONS

- Extremely useful for implementing graph/tree problems (BFS)
 - Shortest path
 - Island finding
- OS scheduling
- Network connections, routing