

COSC201 ~ 10/19/2011

◁ Stacks + Queues

• Queue: First In, First Out (FIFO)
[Also: Last in, last out]

* think of standing in line at the grocery store

• Stack: Last In, First Out (LIFO)
[Also: First in, last out]

* think of a stack of DVDs ~ you can only ^{use} [see] the "top" CD

◁ Basic methods for Queue + Stack

	Stack	Queue
add a new element	push	enqueue
removes an element (from top or front)	pop	dequeue
returns the top/front element without removing or changing any elements	top	front

◁ Stacks in Java

- inherit everything from List and Collection

- Stack-specific methods:

• boolean empty()

• AnyType peek() // top

• AnyType pop() // top and pop

• AnyType push(AnyType)