











Stack

Empty - check if stack is empty

- Array: check if "top" is at index 0
- Linked list: check if "head" pointer is null
- Runtime: Θ(1)



Stack

Pop - removes the top element from the list

- check if empty, if so, "underflow"
- Array:
 - return element at "top" and decrement "top"
- Linked list:
 - return and remove at front of linked list
- Runtime:
- Θ(1)



Queue	Queue	
FIFO	Can implement with: • array? • singly linked list? • doubly linked list?	
Picture a line at the grocery store		
Enqueue(1)		
Enqueue(2)		
Enqueue(3)		
Dequeue() 1		
Dequeue() 2		
Dequeue() 3		

