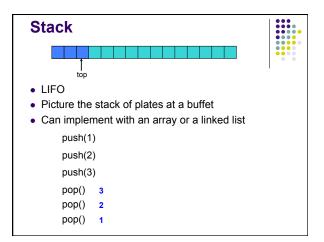


2

Stack

- LIFO
- Picture the stack of plates at a buffet
- Can implement with an array or a linked list



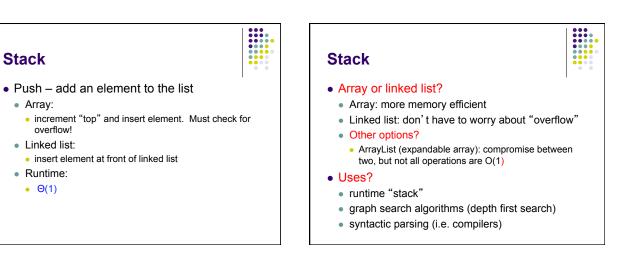
Stack

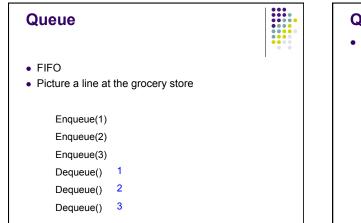
- Empty check if stack is empty
 - Array: check if "top" is at index 0
 - Linked list: check if "head" pointer is null
 - Runtime: O(1)

- Pop removes the top element from the list
 - check if empty, if so, "underflow"
- Array:

Stack

- return element at "top" and decrement "top"
- Linked list:
 - return and remove at front of linked list
- Runtime:
 Θ(1)





Queue

- Can implement with:
 - array?singly linked list?
 - doubly linked list?

