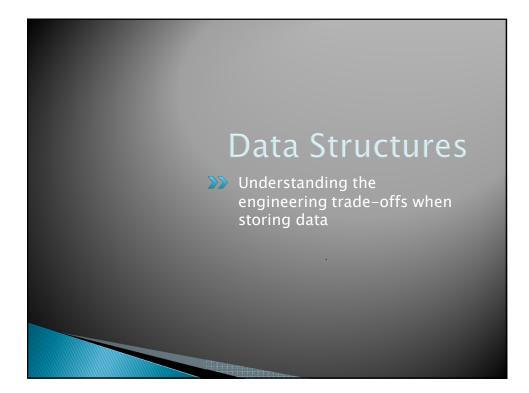
CSSE 220 Day 28

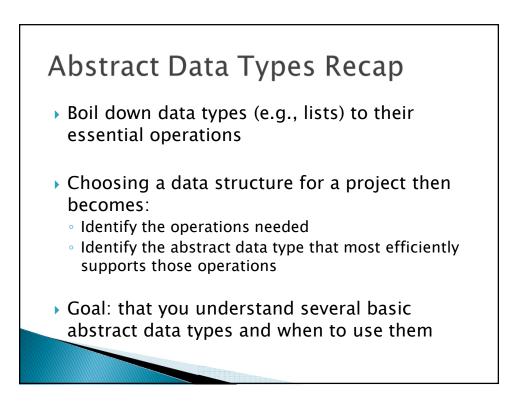
Data-structure-palooza Fixed-length queues

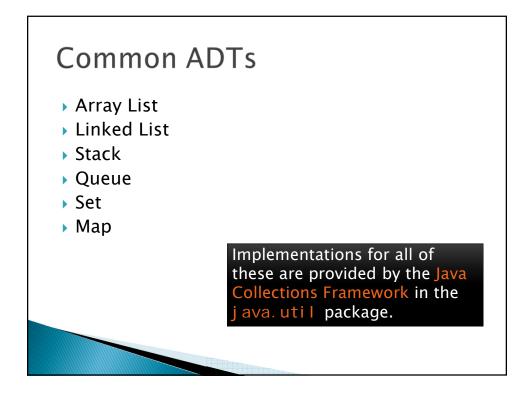
We will continue with the previous session's in-class quiz (Quiz 26).

Checkout DataStructures and FixedLengthQueue projects from SVN



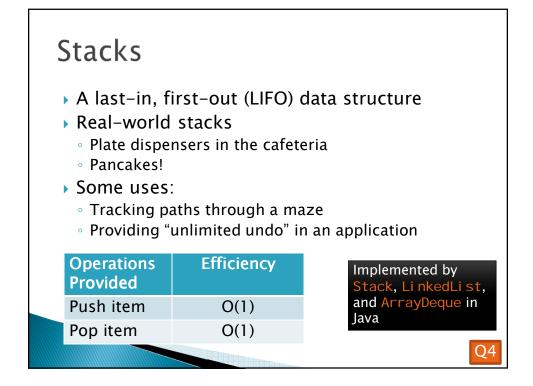


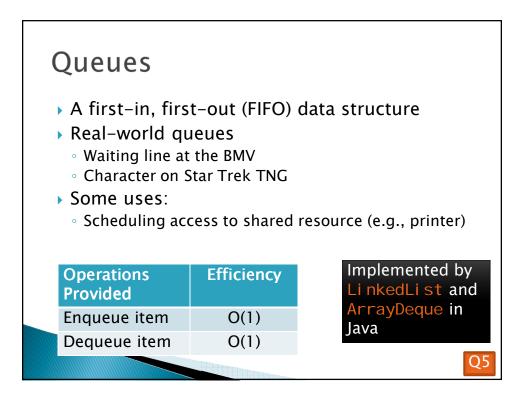


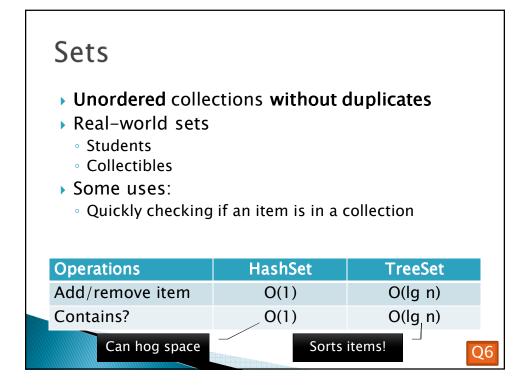


Array Lists and Linked Lists

Operations Provided	Array List Efficiency	Linked List Efficiency
Random access	O(1)	O(n)
Add/remove item	O(n)	O(1)







Maps				
 Associate keys with values Real-world "maps" Dictionary Phone book Some uses: Associating student ID with transcript Associating name with high scores 				
Operations	HashMap	TreeMap		
Insert key-value pair	O(1)	O(lg n)		
Look up value for key	O(1)	O(lg n)		
Can hog space	Sorts items by ke	ey! Q7-9		

Fixed-Length Queue

- FixedLengthQueue: a specialized data structure for implementation practice
 - Problem description is linked from the schedule page (session 28)
 - Implement FLQ in the next 25 minutes or so
 - Work with your LodeRunner team, but each person should code and commit it individually
- If there is time left, work with your team on LodeRunner.

Check out FixedLengthQueue project

