

For Friday

- Read Chapter 3, sections 5-7
- Program 2 due

Program 2

- Any questions?

Questions before the quiz?

Quiz

Dynamic Arrays

The ArrayList Class

- In the `java.util` package
- Part of the Java Collections classes
- Purpose: to provide an indexed collection that can vary in size.
- Can only hold Object references

ArrayList Methods

- boolean add (Object obj)
- void add (int index, Object obj)
- void clear()
- Object remove(int index)
- Object get(int index)
- Int indexOf(object obj)
- boolean contains(Object obj)
- boolean isEmpty()
- int size()

ArrayList Contents

- By default, hold any Object reference
- But this causes issues when we remove items from it.
- We can specify the particular kind of objects we want to store by putting the class name in angle brackets.

Efficiency Issues

- Deleting from an ArrayList object

Linked Lists

- Basic concept?

A Node Class

- What are the pieces of a node class?

Traversing a List

Inserting at the front

Deleting from the front

Finding by Position

Finding by value

Inserting into the middle

Deleting from the middle