CS 367 - Introduction to Data Structures
Tuesday, June 23, 2015 - Lecture 6

Course website: http://pages.cs.wisc.edu/~cstapleton/367/
Piazza: https://piazza.com/wisc/summer2015/cs367/

Last Time
- array vs. chain of nodes
- Chain of nodes a.k.a Linked Lists
- Practice with chains
- Java Visibility modifiers

Today
- Practice with chains
- ListADT with linked lists
- tail reference and dummy header
- Linked List variations

Next Time
- Read: continue Linked Lists
- LinkedList Class
- LinkedListIterator
- Class Compiling Work
Recall Chain of Linked Nodes Data Structure

Listnode class

Show how the memory diagrams change as a result of executing the code beneath each:

```
head
```

```
head
```
Recall our Implementation of the ListNode class

Working with Linked Lists: Reversing

Write a code fragment that reverses the order of the nodes in a chain. Assume head points to the first node in the chain.
Implementing ListADT with Linked Lists under the hood

Linked List Iterators

Recall the Iterator interface

Recall SimpleArrayListIterator

public class SimpleArrayListIterator implements Iterator<Object>
Implementing LinkedListIterator

Making LinkedList Iterable