

CS367 Lecture 9

Monday 30 June 2014

Reminders:

- P1 and HW2 due at 11 PM tonight

Last class:

- Java Visibility Modifiers
 - `protected`: visible in subclasses AND package.
- Practice with chains
- ListADT with linked lists

Today:

- ListADT with linked lists (cont'd)
 - `tail` reference and dummy header
- Linked List variations

Implementing ListADT with Linked Lists under the hood

Recall our List ADT

```
public class LinkedList<E> implements ListADT<E> {
    private ListNode<E> head;

    public LinkedList() {

    }

    public void add(int pos, E item) {

    }

    public void add(E item) {

    }

    public E get(int pos) { ... }
```


Linked List Variations

Singly-linked

- with tail
- with (dummy) header node

Doubly-linked

Circular

- Singly-linked
- Doubly-linked