

CSC 217 Lab 10

Iterators

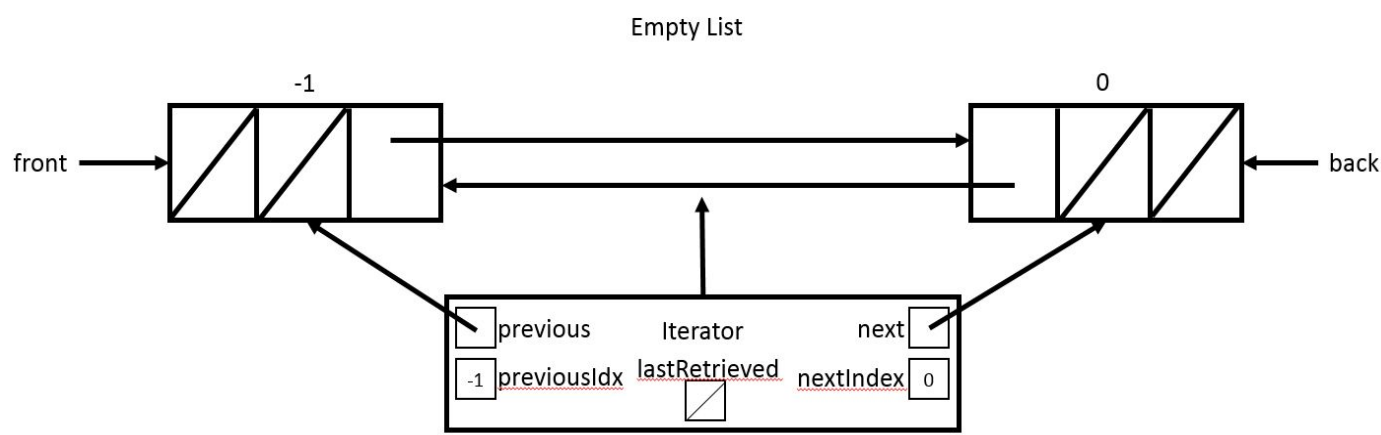
Lab Overview

- Deadlines and Reminders
- Activities
 - Implement a LinkedList using an Iterator
 - Faculty Functionality
 - Faculty
 - FacultyRecordIO
 - FacultyDirectory
 - RegistrationManager
- Lab Wrap-Up

ListIterator

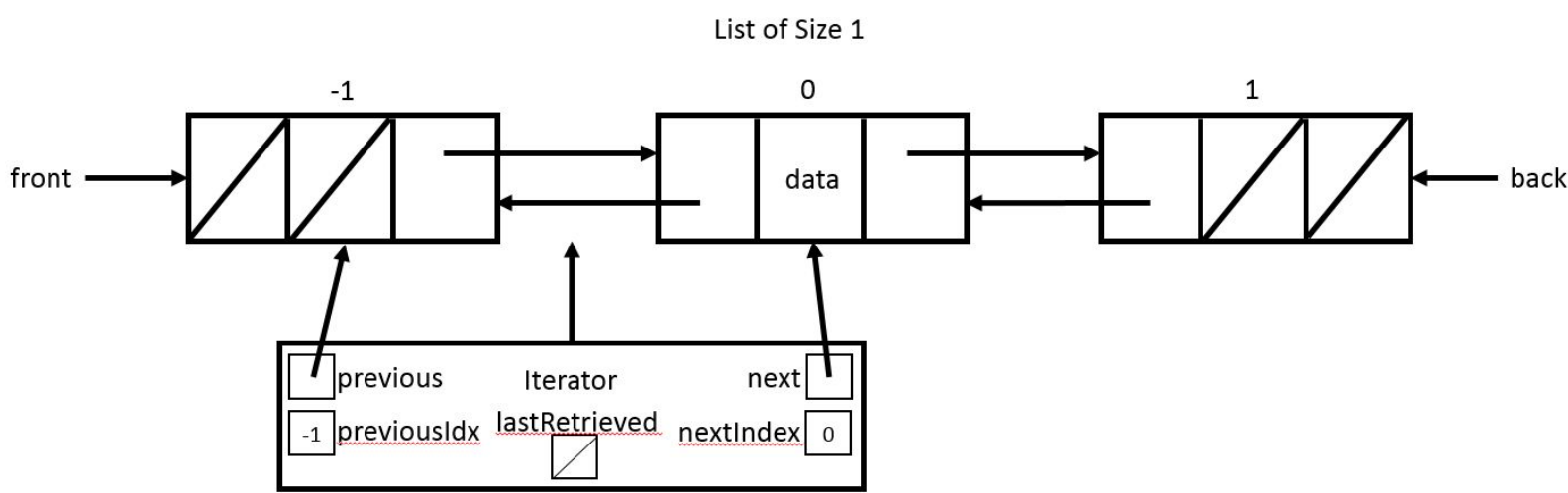
ListIterator - Interface for a doubly linked list

- ListIterator sits between nodes. Nodes with null data represent indices of -1 and size



ListIterator

ListIterator - goes to a specific location. Then can add, set, remove.



Why Iterators are the coolest

- YOU CAN USE A FOR-EACH LOOP!
- Classes that implement `Iterable<E>` can be looped over like..

```
for(String s : collection) {  
    System.out.println(s);  
}
```

Just DON'T modify the list while you are
for-eaching!



Wrap-Up

General Wrap-Up

- Deadline Reminder (see board)
- Exchange contact information with your partner
- Make a plan for finishing up the lab

Participation Outside of Lab (Guess which the teaching staff prefer?)

- If you pair program/design, **note that in the commit comments so everyone gets credit!**
- If you split the work, at least one contribution by each partner

REMINDER: We are expecting a significant contribution from all team members outside of lab!

- If you pair program/design, you **MUST** note it in your commit messages or there will be deductions
- Students who don't allow their partners to contribute will receive deductions
- Students who don't contribute will receive deductions

Record Tasks & Owners

Tasks only get done when someone owns them!

Identify the tasks required to complete Lab 10

- Edit README.md to list the tasks required to complete Lab 10 (at top of README - should come before Lab 9 tasks)
- Add an owner to each task
- Add a deadline to each task

Deadlines should be at least 48 hours before the lab deadline so team members can help out and finish the lab if a team member runs into issues.

Notify team early if you run into problems with your tasks!