Thursday, March 29

Warmup
For each of the following sequences, draw a picture showing the representation of the sequence using a linked list as we are doing in the current assignment. The current element, if any, has parentheses around it. Be sure to show all the instance variables.
1) s (u) n
2) 17 12 5 9
3) (2.5) 9 4 8 53.5

seqLL assignment
due April 9
tips
work on it incrementally
draw pictures of situations
use JUnit tests (see example?)
addBefore
addAfter
addAll
consider the problem of empty sequences
consider the problem of \texttt{B.addAll(B)}
make copy (copy/clone) before modifying existing list
concatenation (call clone and addAll to implement)
remove

Test
April 12 - Thursday
sample test out on April 5
review on April 10
through chapter 7 emphasizing content since test 1
linked lists

Chapter 5

listSearch (textbook’s \texttt{Node.java})
compare with equals not \texttt{==}
consider possibility of data being null and use separate code
this is not an issue in current assignment

iterators and interfaces
visit all the elements in a container
how do we do that in data structures we know?

Java has \texttt{Iterator} interface
if program states it implements an interface, it provides those methods
to implement an interface
- read and understand its documentation
  find it online at reputable source
  \url{https://docs.oracle.com/javase/7/docs/api/java/util/Iterator.html}
- tell compiler that the class implements an interface
  \texttt{public class Lister<E> implements Iterator<E>}
- implement all methods in the interface