

Iterators

1. Reminders:
 - a. Review Session Tuesday PM 8-9:30pm TCL 216
 - b. **Exam Wednesday 1pm** TCL 217
 - c. Please read Ch. 9 this week (will not be on the exam)
2. Tarballs – like zipfiles, only stupider
 - a. `tar -cvf filename.tar sourcefiles`
 - b. `tar -xvf filename.tar`
 - c. “man tar” for more information
3. `String[] args` --- command-line arguments
4. **Java Memory Model**
 - a. Stack
 - b. Heap
 - c. Variable, Pointer, Object, Type
 - d. New
 - e. Assignment operator
 - f. Garbage collection
5. **Internal (“helper”) classes**
 - a. Static
 - b. Non-static
 - i. Captured “this”
 - ii. `Class.this` syntax

6. Iterators

a. interface java.util.Iterator<E>

public boolean hasNext()

public E next()

public void remove()

b. interface java.lang.Iterable<E>

public Iterator<E> iterator()

c. for (Iterator<E> i = structure.iterator(); i.hasNext(); val = i.next()) { ...

d. for(E e : structure) { ...

7. **Abstract linked list** (using internal classes)

8. Circular list

9. Doubly linked list