CS 445

Rec 4

Agenda

1. **Housekeeping**
2. **Topics of This Week (content intense!)**
3. **Working Session: Lab 3**

Housekeeping

1. **Recitation and Office Hours are both in-person**
    a.   Attendance not required
    b.   Recordings found on Google Drive
2. **Lab 3 & Project 3 are both up**
    a.   Lab 3 is due this Sunday
    b.   Project 3 is due next Thursday

Topics of This Week

Node & Linked List Operations

1. **What is a** `Node<T>`**?**
2. **Illustration of** `insertAtFront()`
3. **Traversal of a linked list**
4. **Illustration of** `insertAtTail()`

Traversal of A Linked List

```
for ( Node curr = head ; curr != null ; curr = curr.next )
{
    System.out.println( curr.data );
}
```

```
Node curr = head;
while ( curr != null )
{
    System.out.println( curr.data );
    curr = curr.next;
}
```

Lab 3

LinkedListTester.java

1. **Read in first input file**
2. **Load the words in** `myList`
3. **Count the # of words in** `myList`
4. **Read in second input file**
5. **Check if words in the second input file is contained in** `myList`

You write these:

- `insertAtTail()`
- `size()`
- `contains()`
- `search()`