

LEC 05

CSE 123

Linked Nodes w/ Loops

BEFORE WE START

Talk to your neighbors:

*What's your favorite
data structure to **implement**?*

Instructor: James Wilcox

Questions during Class?

Raise hand or send here

sli.do #cse123



Lecture Outline

- **Announcements** 
- Iterating over `ListNodes`

Announcements

- Resubmission Cycle 0 open, closes today
 - Normally resubmissions will be open Mon – Fri each week
- Creative Project 1 due Wed Oct 15 at 11:59pm!
- Quiz 0 next week (Tues, Oct 14)
 - See Quiz Logistics Ed announcement
 - Practice Quiz posted, plus solutions

Lecture Outline

- Announcements
- Iterating over ListNodes ◀

ListNode chains

- Recall the ListNode class:

```
public class ListNode {  
    public int data;  
    public ListNode next;  
}
```

- How would we find the fourth value in a chain?

```
node.next.next.next.data
```



ListNode chains

- Recall the ListNode class:

```
public class ListNode {  
    public int data;  
    public ListNode next;  
}
```

- How would we find the 100th value in a chain?

```
node.next.next.next.next.next.next.next....
```



Iterating over ListNodes

- General pattern iteration code will follow:

```
ListNode curr = front;  
while (curr != null) {  
    // Do something  
  
    curr = curr.next;  
}
```