

LEC 05

CSE 123

Linked Nodes w/Lists

Questions during Class?

Raise hand or send here



cs.uw.edu/123/poll
sli.do #cse123x

BEFORE WE START

Talk to your neighbors:


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

Instructors: Brett Wortzman
Miya Natsuhara

Arohan	Neha	Rushil	Johnathan	Nicholas
Sean	Hayden	Srihari	Benoit	Isayah
Audrey	Chris	Andras	Jessica	Kavya
Cynthia	Shreya	Kieran	Rohan	Eeshani
Amy	Packard	Cora	Dixon	Nichole
Trien	Lawrence	Liza	Helena	

Music: [CSE 123 25wi Lecture Tunes](#)

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 Jan 29 at 11:59pm!
- Quiz 0 next week (Tues, Jan 28)
 - [Ed announcement](#)
 - [Practice Quiz](#) posted
- Miya's office hours moved to 5:30-6:30pm today

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
```



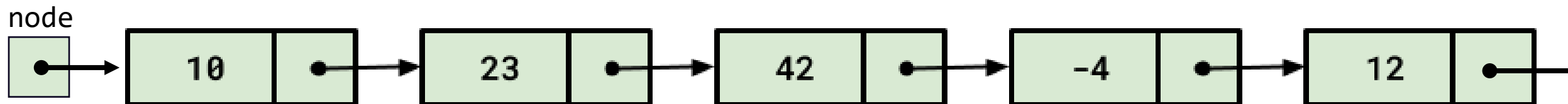
ListNode chains

- 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;
}
```