CSE 12 — Basic Data Structures and Object-Oriented Design Lecture 25

Greg Miranda & Paul Cao, Winter 2021

Announcements

- Quiz 25 due Friday @ 8am
 - Last quiz!!
- Survey 10 due Friday @ 11:59pm
- PA8 due Thursday @ 11:59pm
- No pre-recorded lecture for Friday
 - Final Review
- Final Exam
 - Starts Saturday, March 13th @ 8:00am
 - Ends Monday, March 15th @ 11:59pm
 - 3 hour exam clock starts when you open exam
 - Must be finished in one sitting

Reminder: Complete CAPE

1 pt challenge

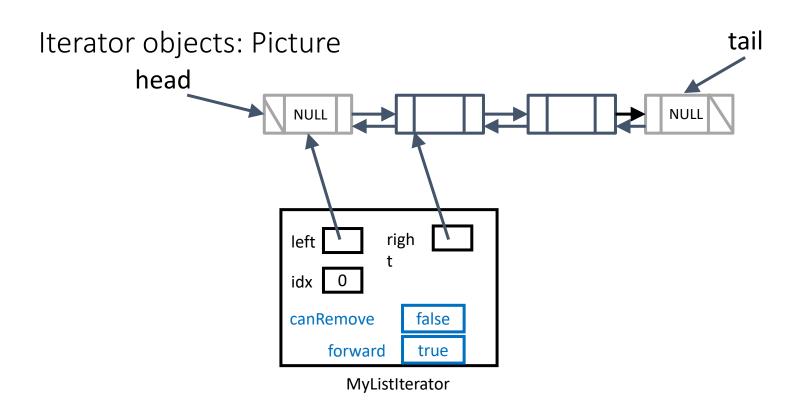
Topics

- Improved Lists
- Questions on Lecture 25?

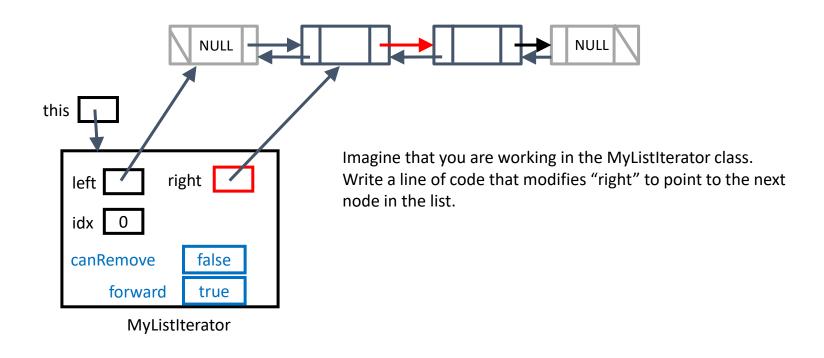
Doubly linked lists MyLinkedList object Dummy head and tail nodes Node Node Node head object object object tail null next next next size data null null data data Linked list object null prev stores pointer to prev prev the tail Objects of type E:

Types of Linked Lists

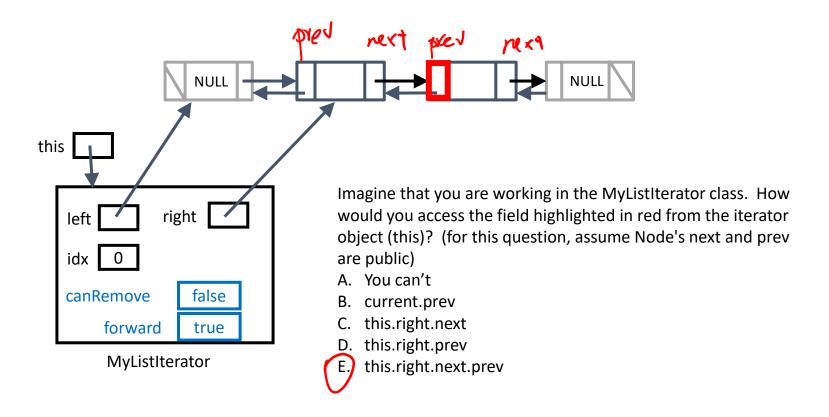
- Singly linked list
- Doubly linked list
- Circular singly linked list
- Circular doubly linked list



Accessing and setting node fields

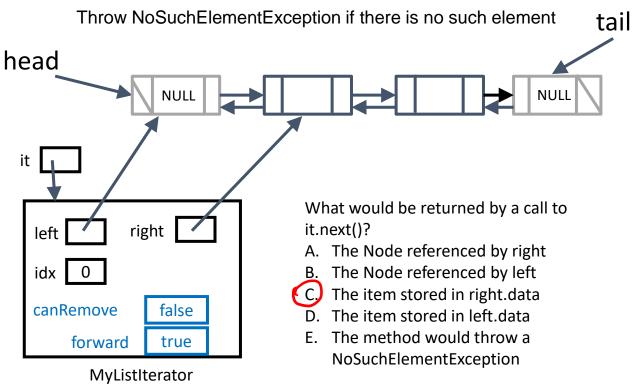


Accessing and setting node fields



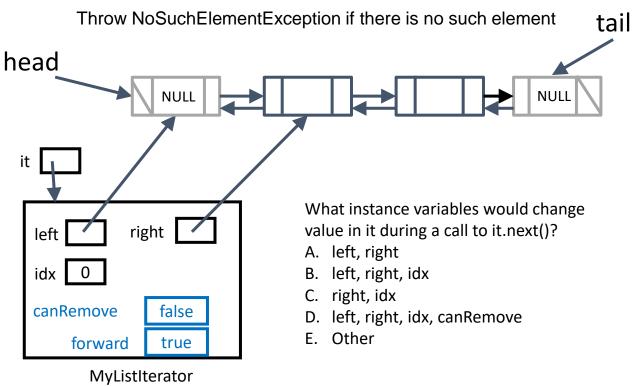
T next()

Return the next element in the list when going forward.



T next()

Return the next element in the list when going forward.



T next()

Return the next element in the list when going forward.

Throw NoSuchElementException if there is no such element

