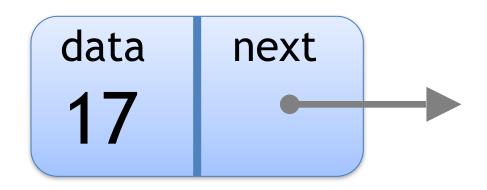
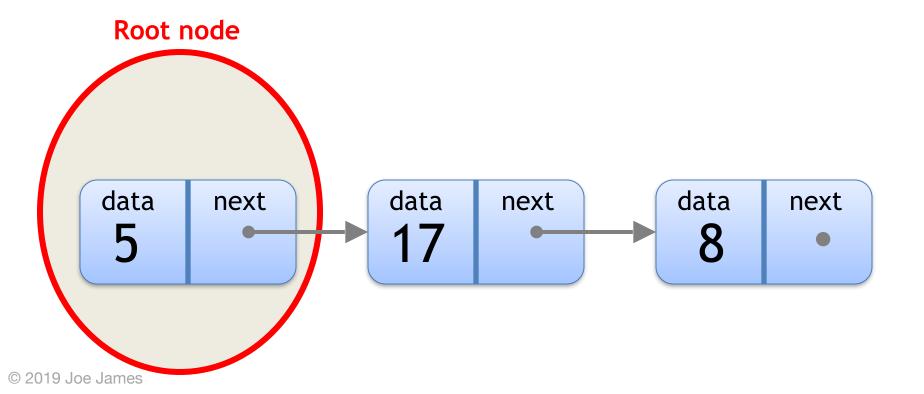
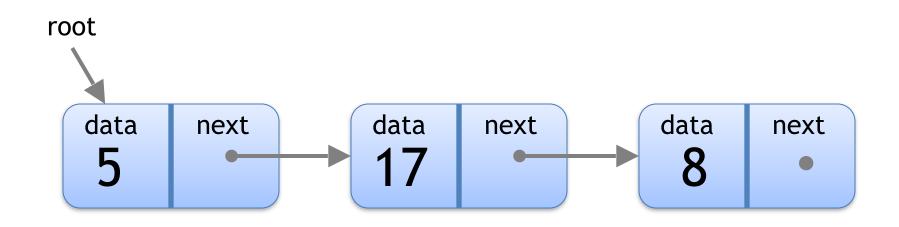
Python Linked Lists

Every Node has 2 parts: data and a pointer to the next Node









Linked Lists

Attributes:

root - pointer to the

beginning of the List

size - number of nodes in List

Operations:

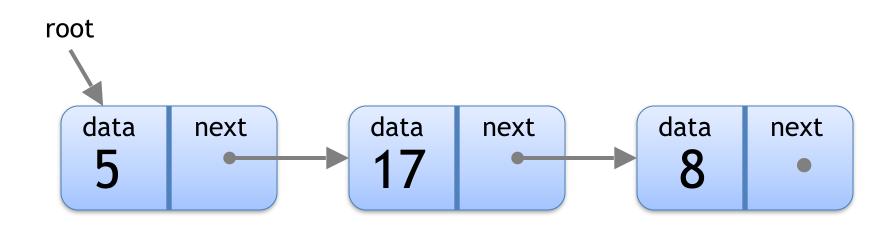
find(data)

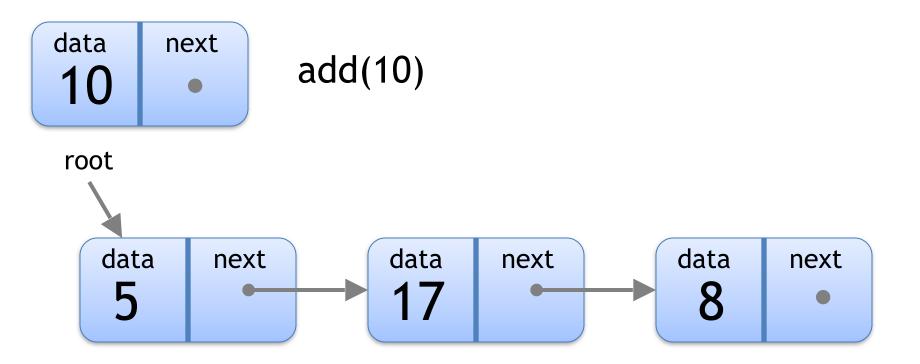
add(data)

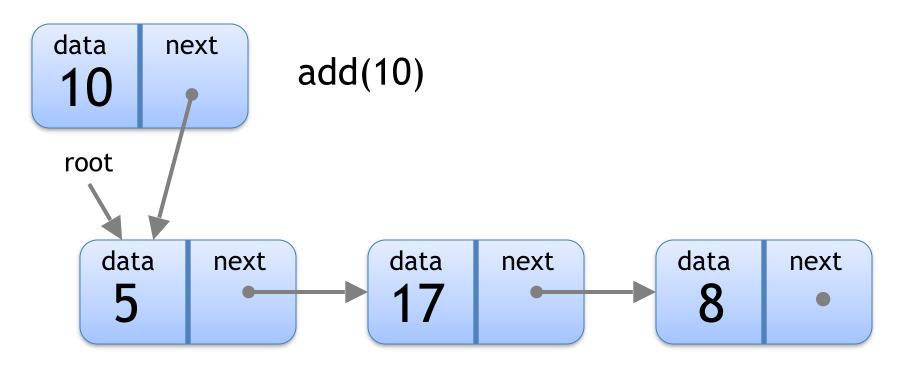
remove(data)

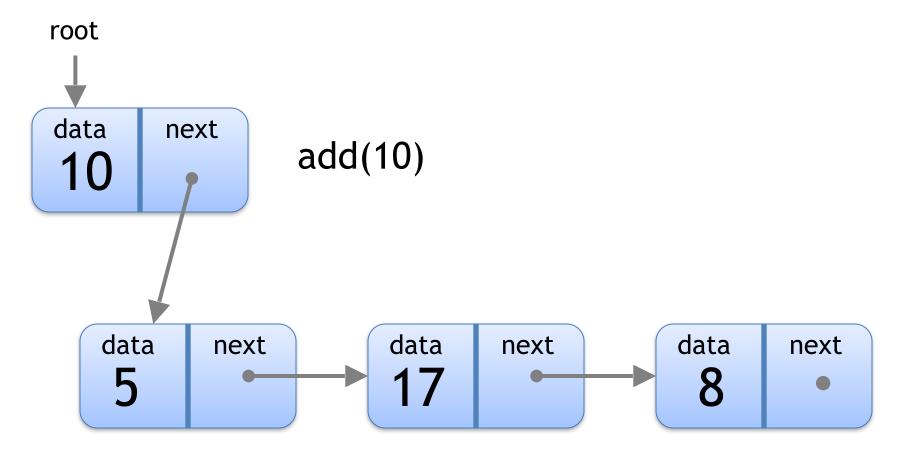
print_list()

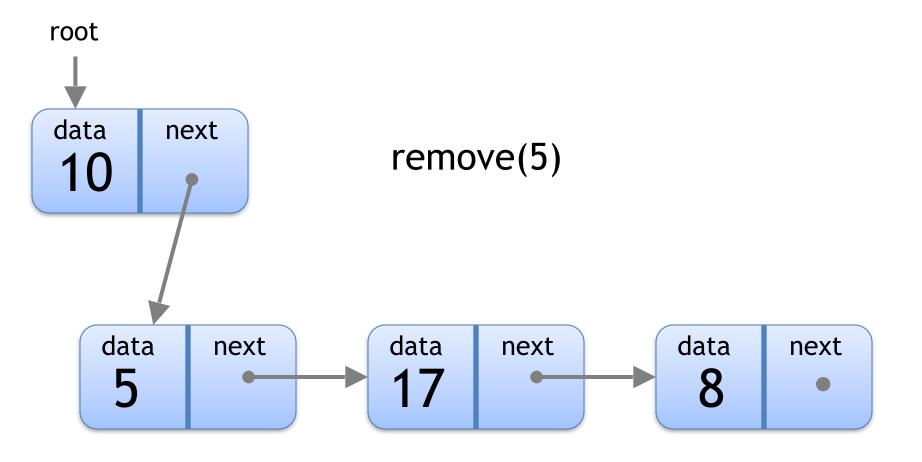
add(10)

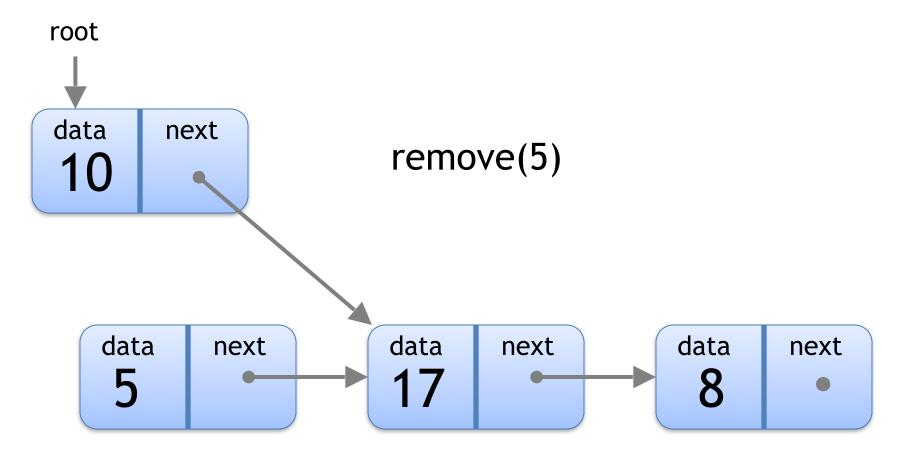


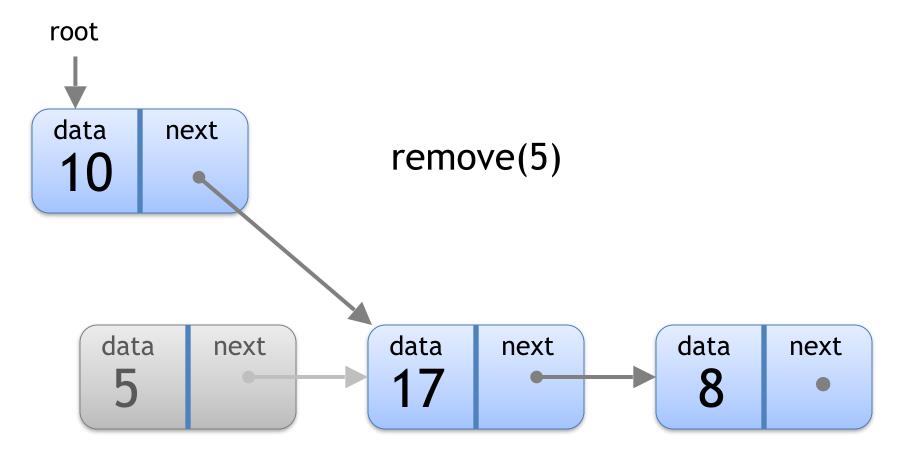






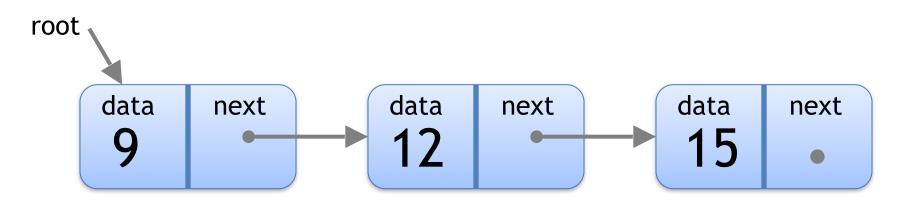


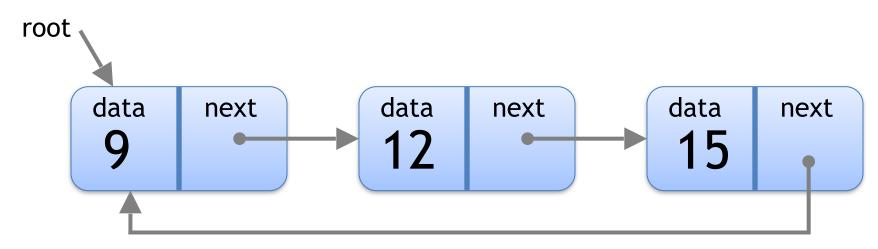




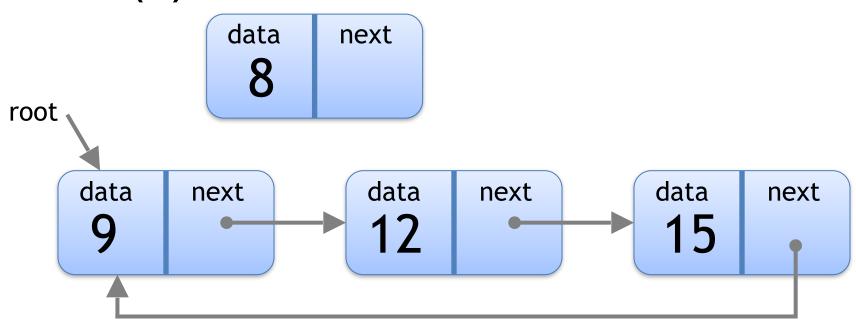
Python Circular Linked Lists

Regular Linked List

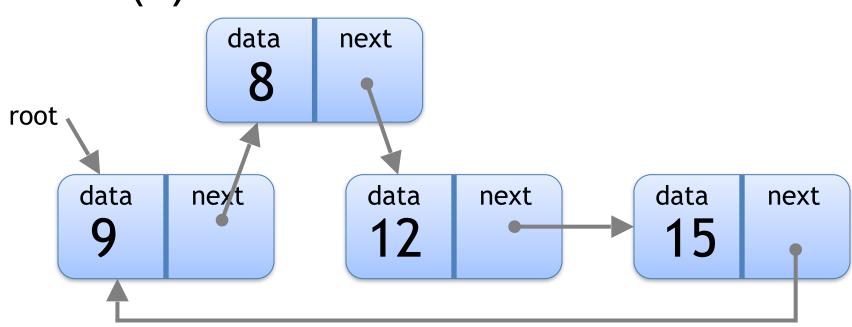




add(8)

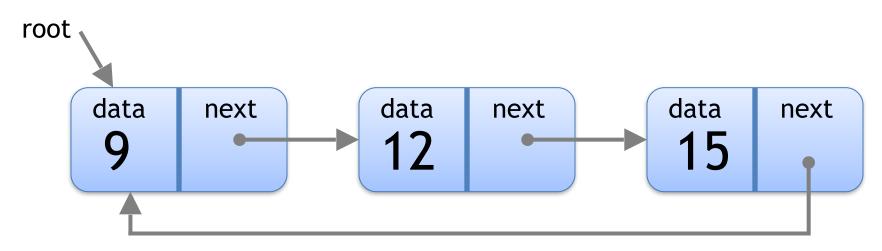


add(8)



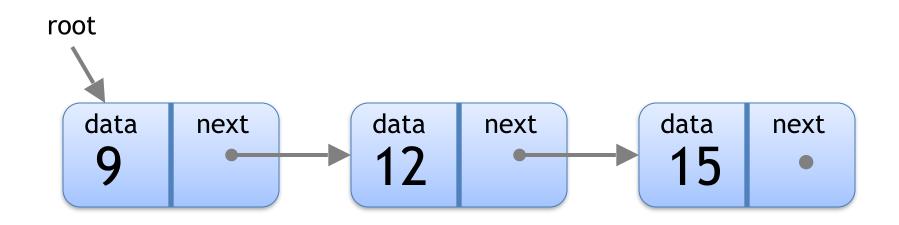
Advantage over regular (singly) linked lists:

 Ideal for modeling continuous looping objects, such as a Monopoly board or a race track.



Python Doubly Linked Lists

Regular Linked List

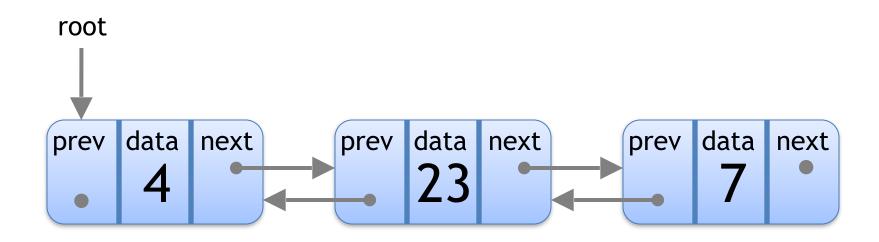


Doubly Linked List



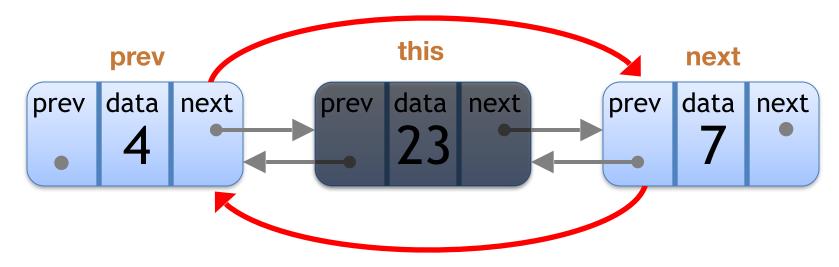
Every Node has 3 parts: data and pointers to previous and next Nodes

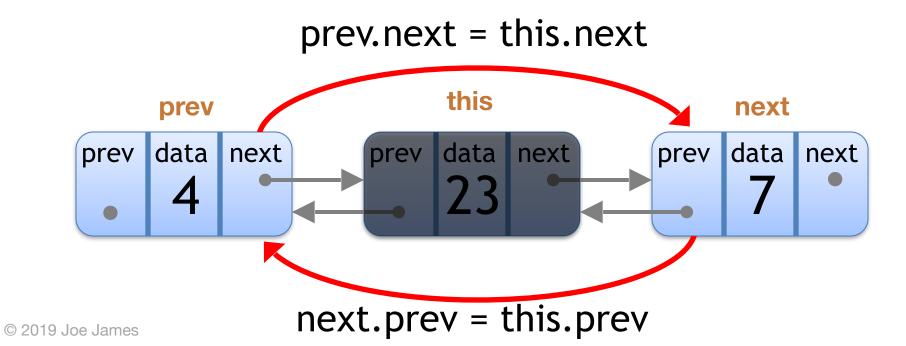
Doubly Linked List











Doubly Linked List

Advantages over regular (singly) linked lists:

- Can iterate the list in either direction
- Can delete a node without iterating through the list (if given a pointer to the node)

