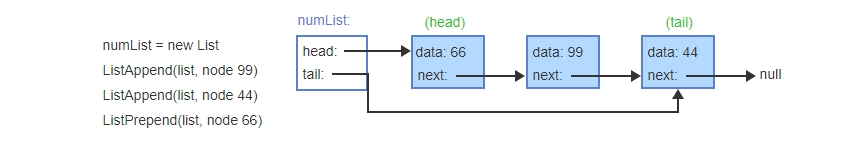
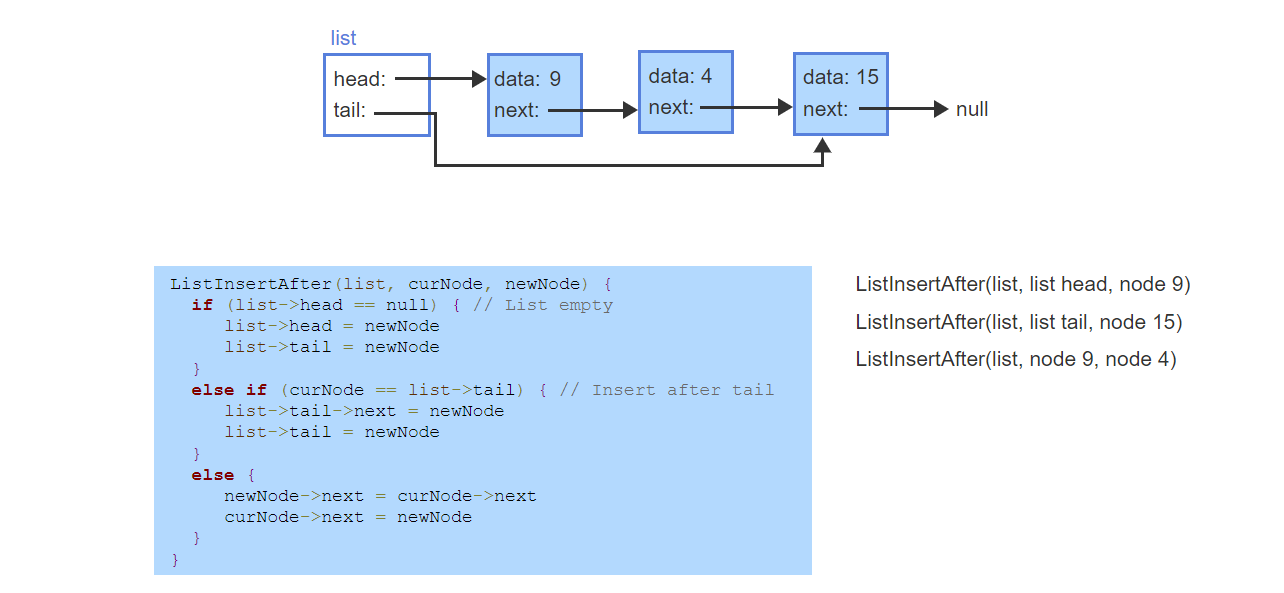
# 12.1 Singly-linked lists

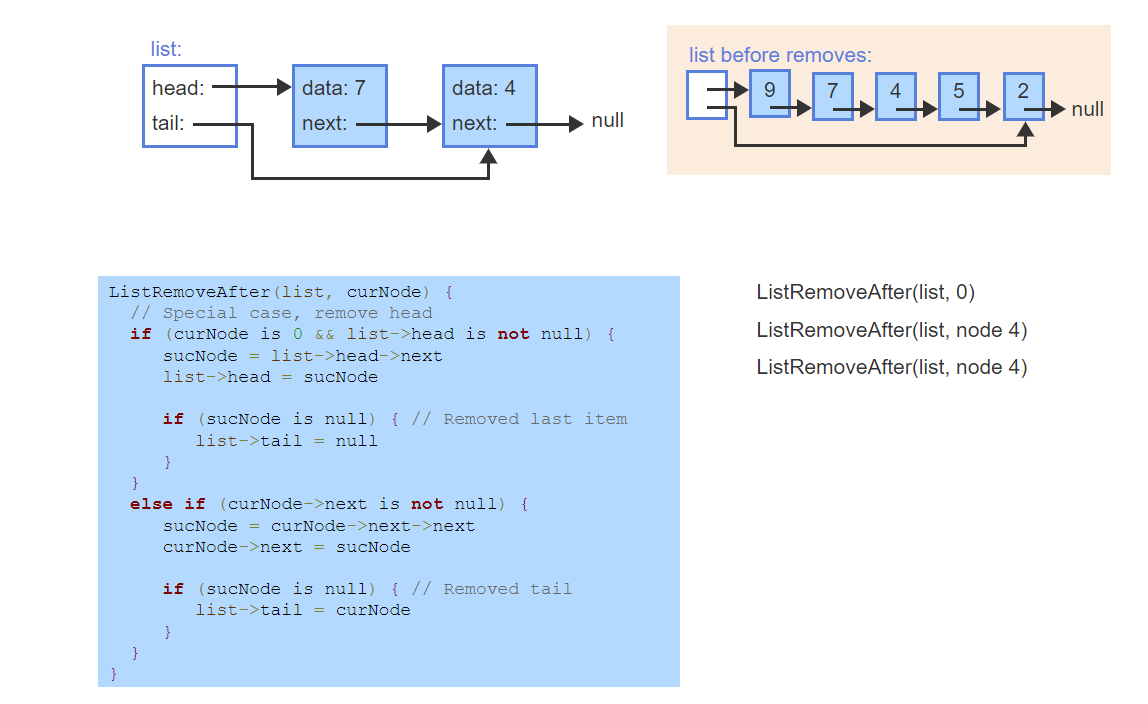


Prepending & Appending.

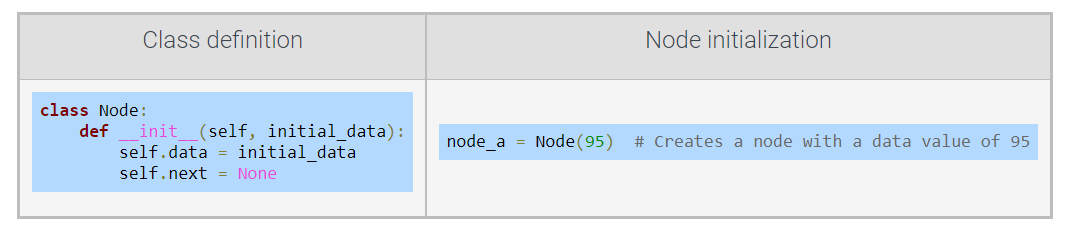
# 12.2 Singly-linked lists: Insert

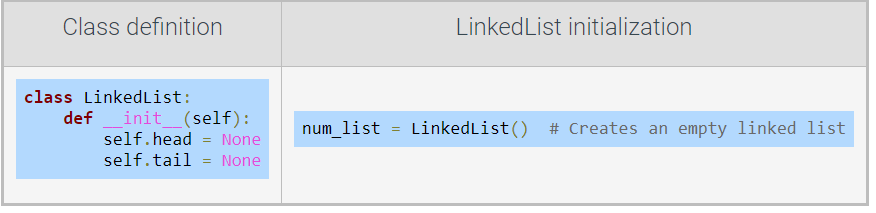


# 12.3 Singly-linked lists: Remove

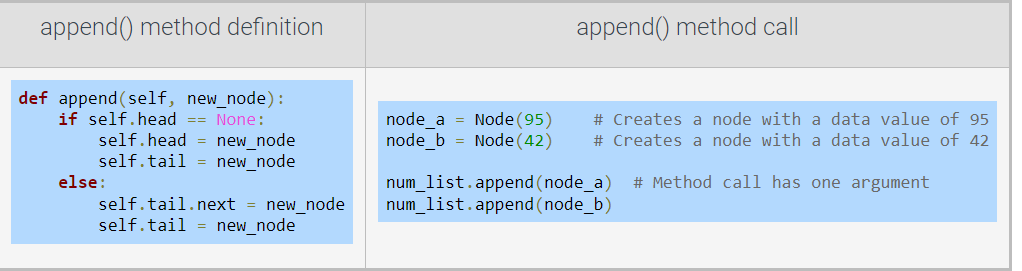


# 12.4 Python: Singly-linked lists

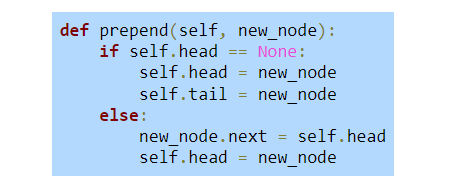


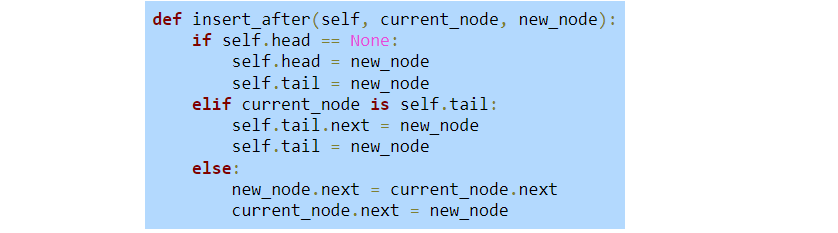


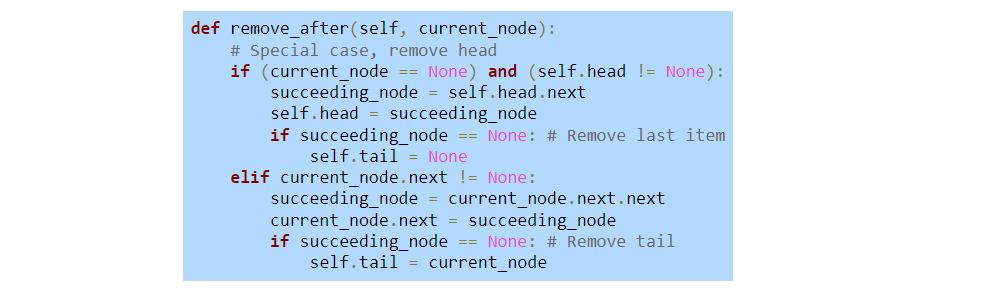
### Appending a node to a singly-linked list



### Additional singly-linked list methods

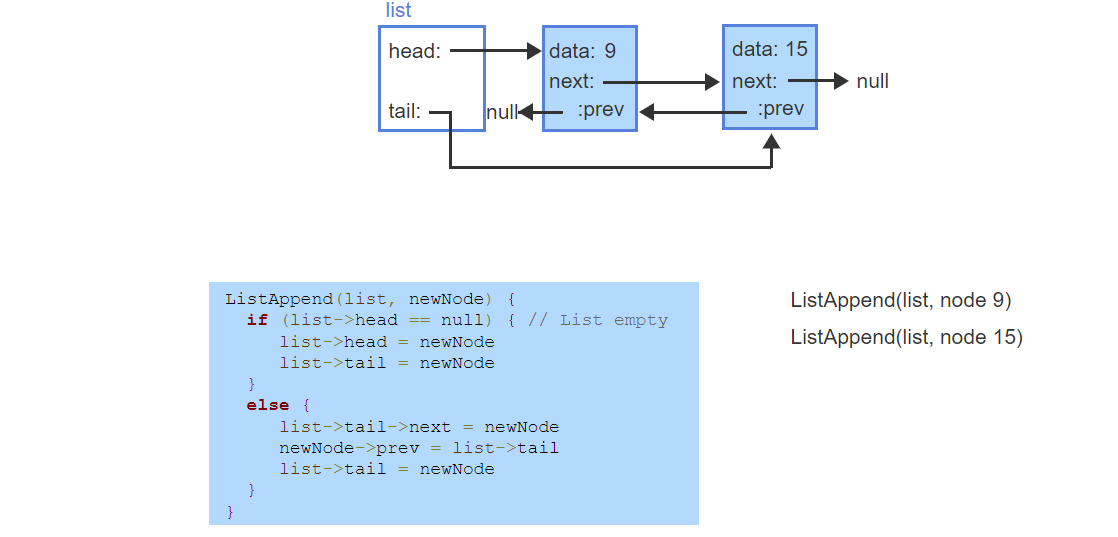


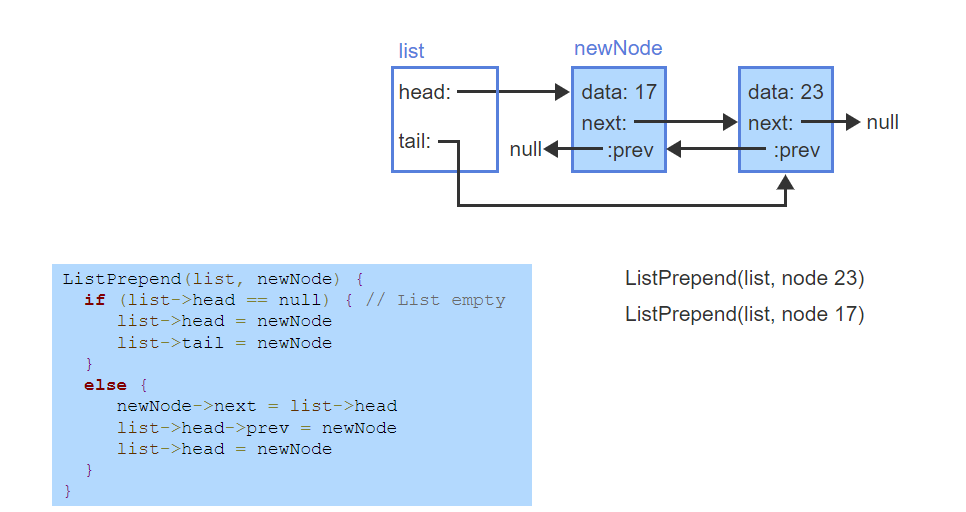




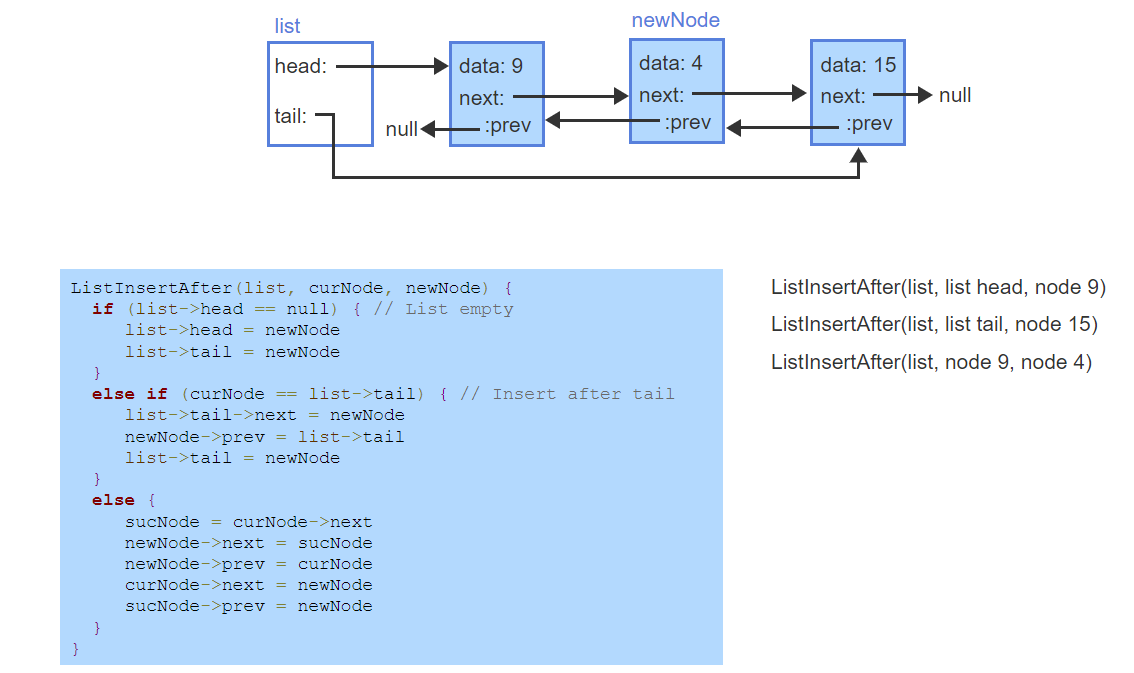
# 12.5 Doubly-linked lists

A ***doubly-linked list*** is a data structure for implementing a list ADT, where each node has data, a pointer to the next node, and a pointer to the previous node.

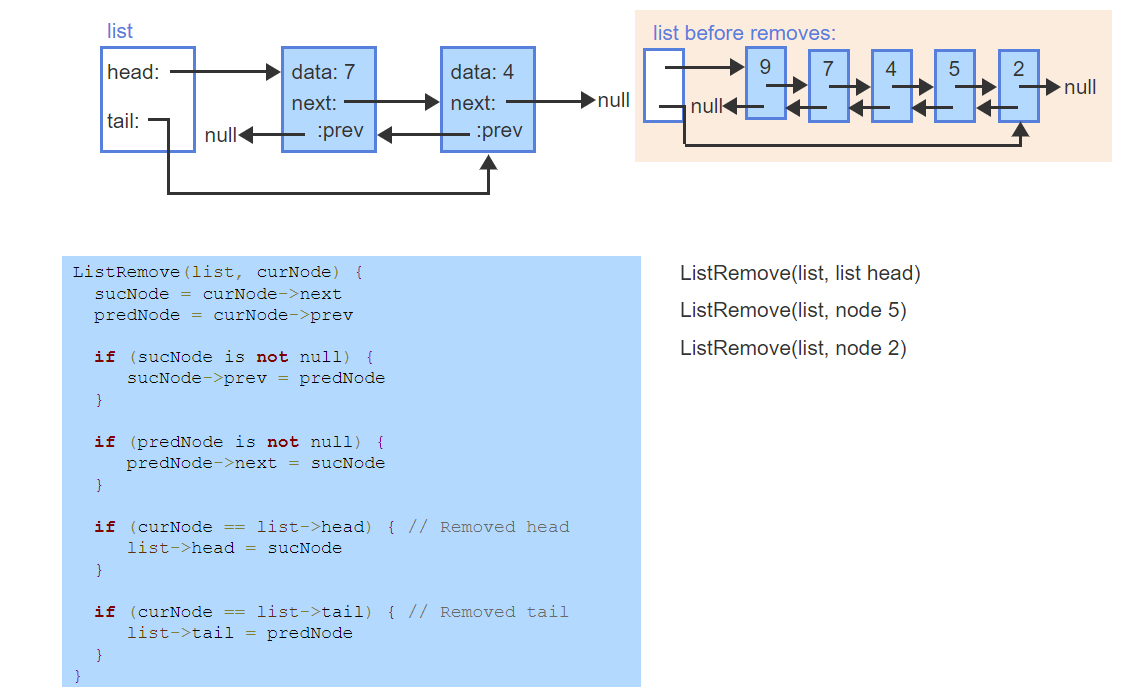
Append

prepend

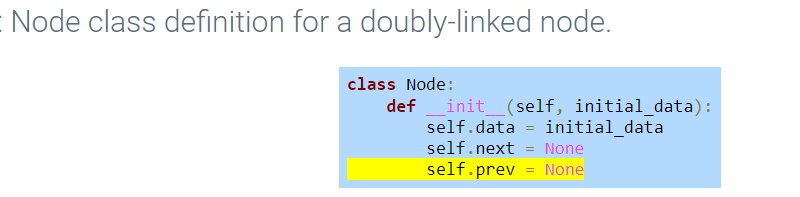
# 12.6 Doubly-linked lists: Insert

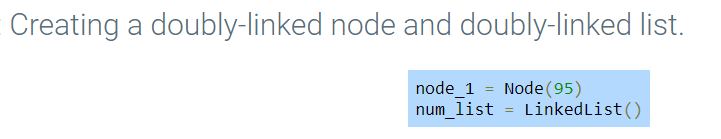


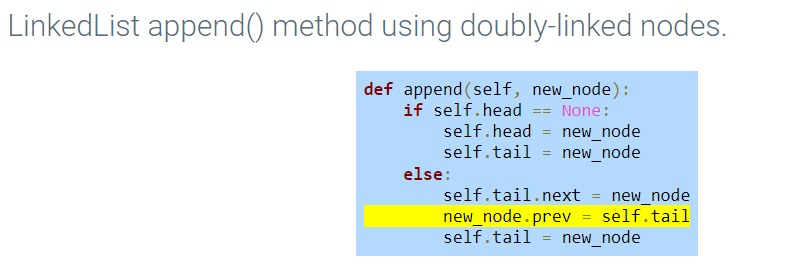
# 12.7 Doubly-linked lists: Remove



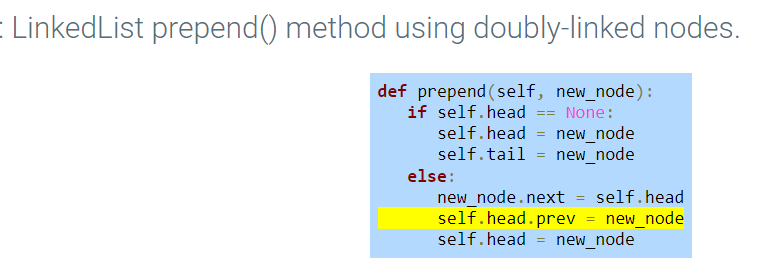
# 12.8 Python: Doubly-linked lists

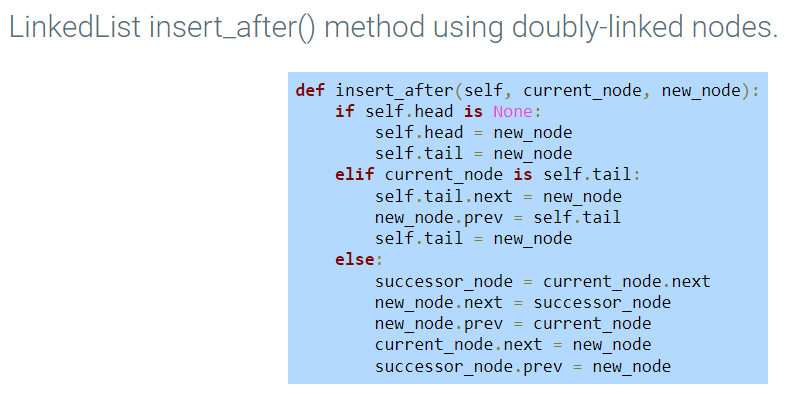


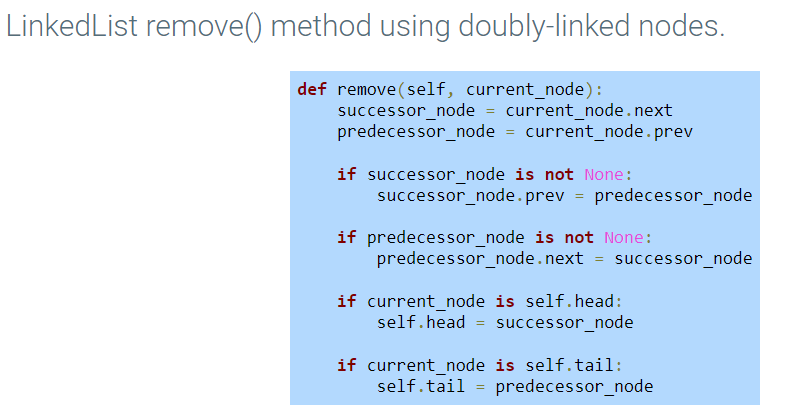




### Additional doubly-linked list methods







# 12.10 Linked list traversal

A ***list traversal*** algorithm visits all nodes in the list once and performs an operation on each node.

A common traversal operation prints all list nodes.

