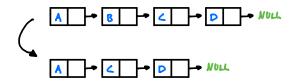
Singular Linked Lists Deletion

Given a key (data field) delete node with this field

Assume elements in the linked list are unique

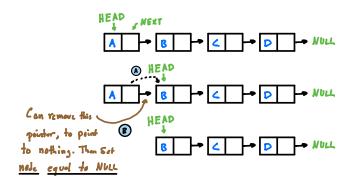
Example: Delete node with data field "B"



2 Cases:

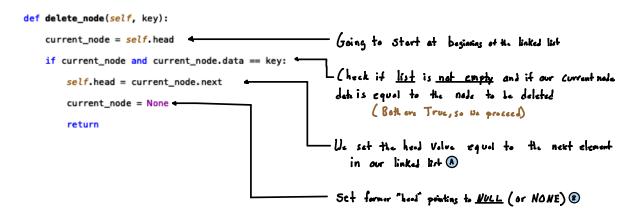
- Node to be deleted is head
- Node to be deleted is not head

Node to be deleted is head



Uha us how to do:

- A more head pointer over to next clement in the linked ket
- 8 Set former "head" pointing to NULL



Node to be deleted is not head

Case 2 Delete node with data field "B" Move along the link in a loop until ve Volve were looking for. While Keeping HEAD 1. 2 A to point to the next note HEAD HEAD 3. - now we will set B to NONE, to delete the element def delete_node(self, key): Going to Start at beginning of the linked lieb current_node = self.head if current_node and current_node.data == key: Case1 self.head = current_node.next ABOVE current_node = None Ver. Keeping track of the Previous mode, sot previous = None initial equal to NONE while current_node and current_node.data != key: Iterate through the linked but until the date previous = current_node field matches our input. While We iterate through the linked list we will current_node = current_node.next 4 Keep treck of our provious made and the current node if current_node is None: - Now were exited the loop previous.next = current_node.next L Check if element is in the list current_node = None Set the previous mode pointing to the next mode B Set current note (the one we some to delete) to NAME

Delete Node at Position

Given a position, delete node with this position

Assume elements in linked list are unique.

Example: Delete node with position 1

