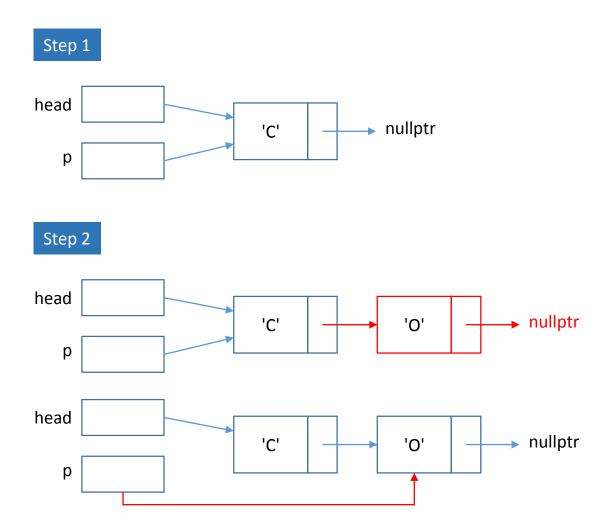
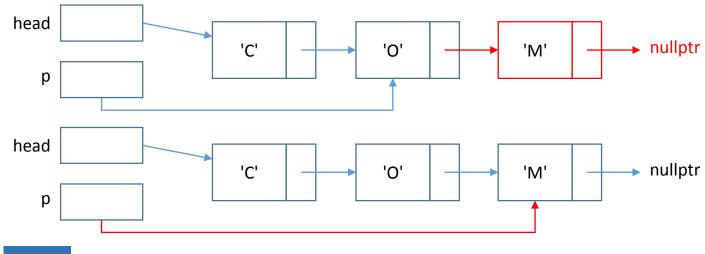
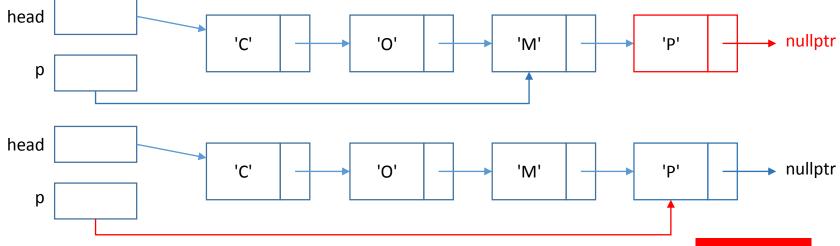
Suppose we pass "COMP" to II_create



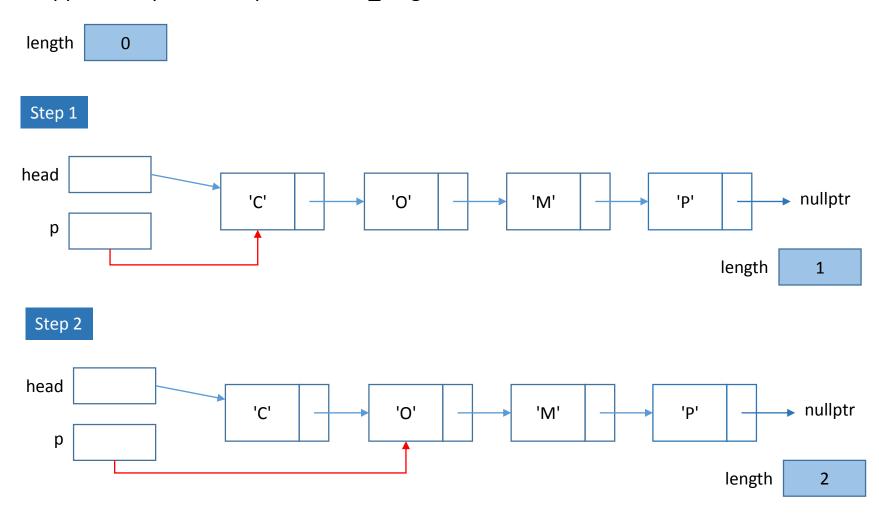


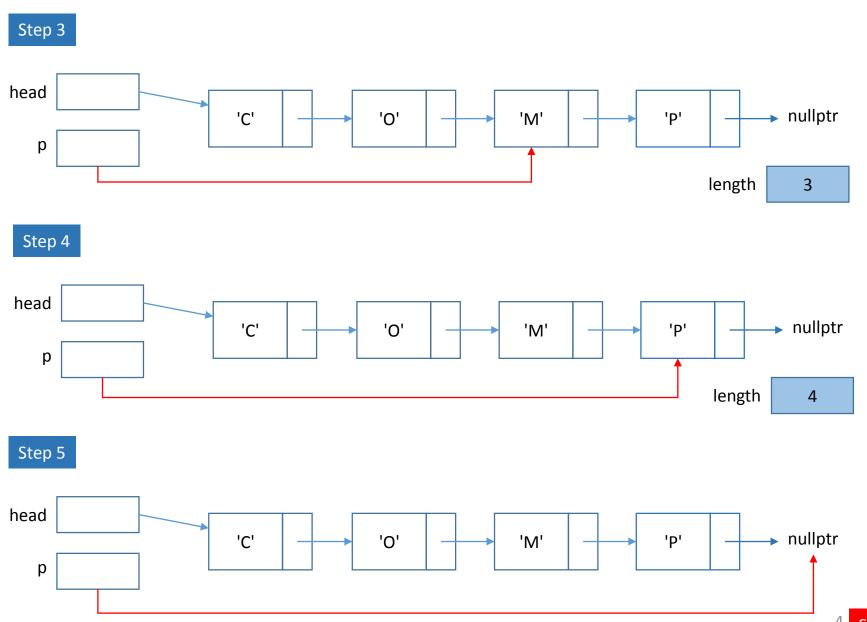


Step 4



Suppose we pass head pointer to II_length

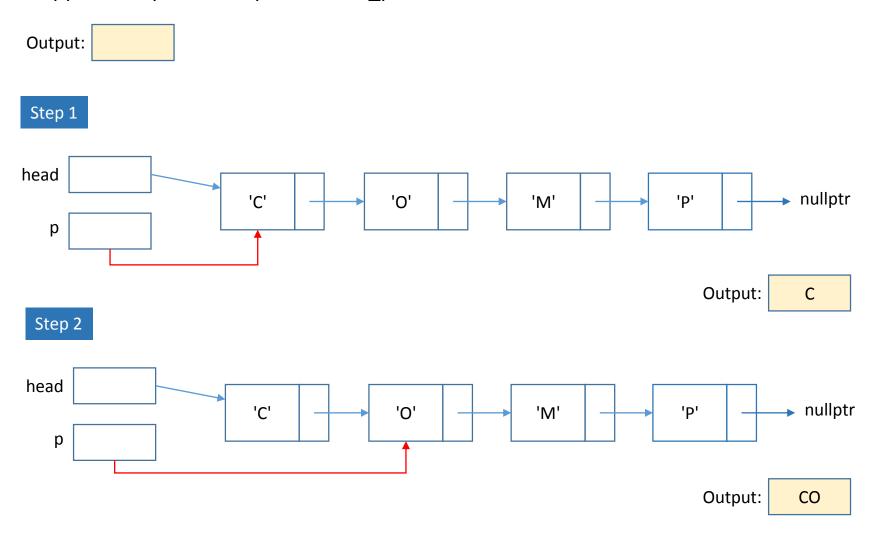


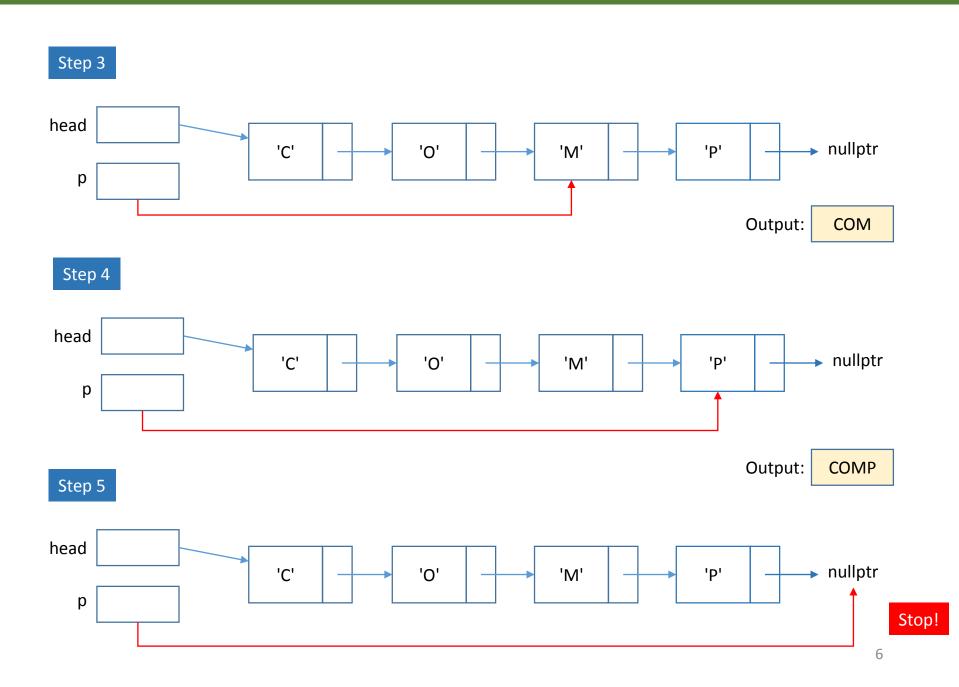


Stop!

Topic 9: Linked List --- Demonstrating what II_print does

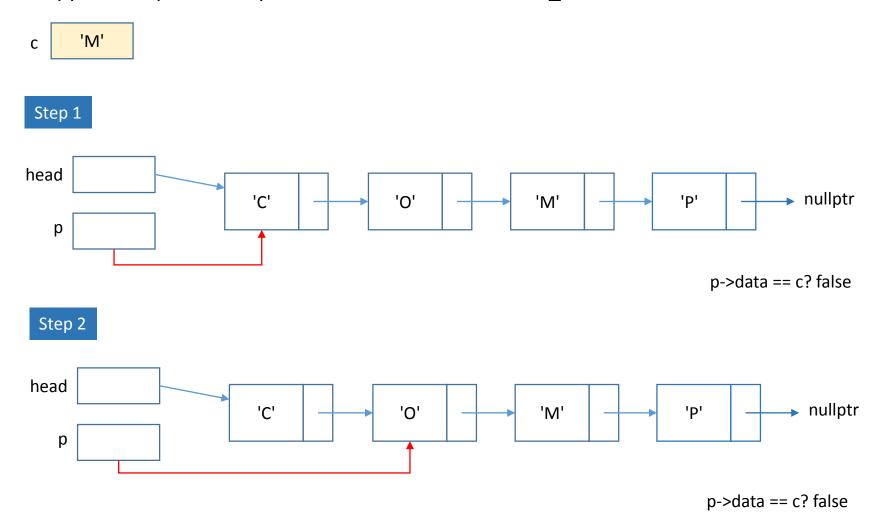
Suppose we pass head pointer to II_print



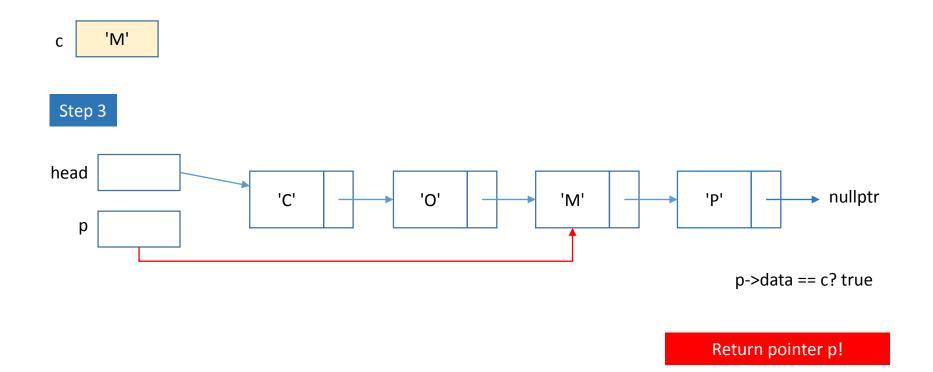


Topic 9: Linked List --- Demonstrating what II_search does

Suppose we pass head pointer and character 'M' to II_search



Topic 9: Linked List --- Demonstrating what II_search does



Suppose we pass head pointer, character 'A', and 0 to II_insert

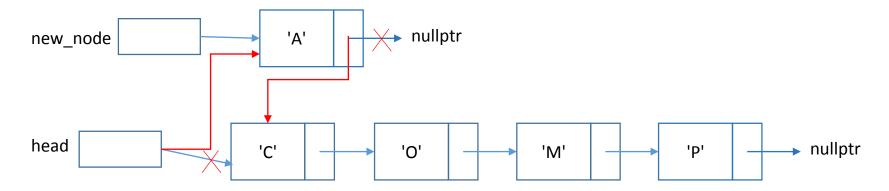


Step 1



Step 2

n == 0? true



Topic 9: Linked List --- Demonstrating what II_insert does

Suppose we pass head pointer, character 'O', and 2 to Il_insert

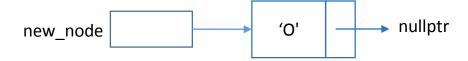


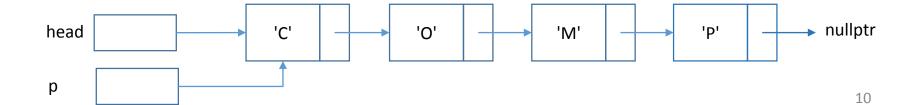
Step 1



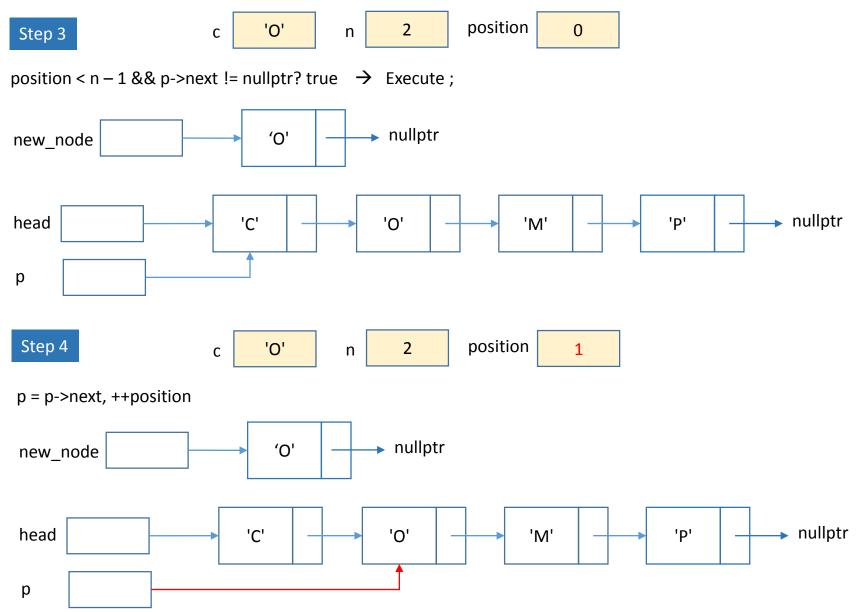
Step 2

n == 0 | | head == nullptr ? false

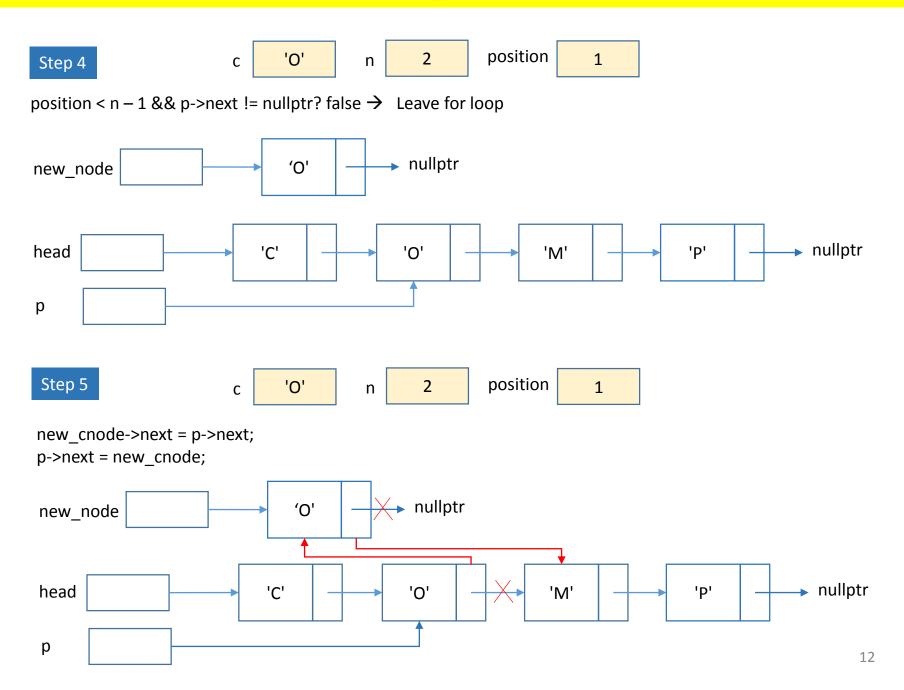




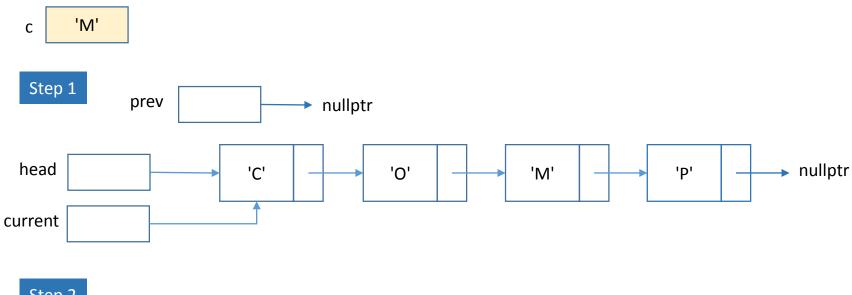
Topic 9: Linked List --- Demonstrating what II_insert does



Topic 9: Linked List --- Demonstrating what II_insert does

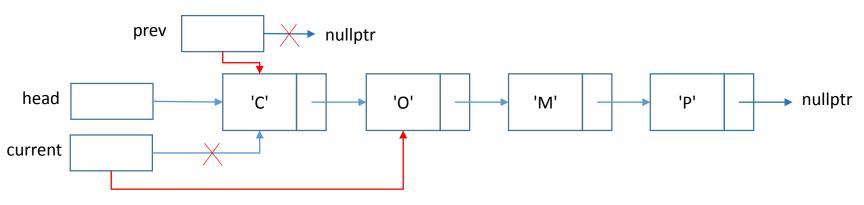


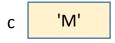
Suppose we pass head pointer, character 'M' to II_delete



Step 2

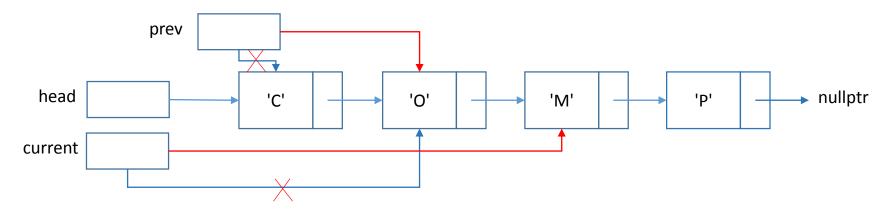
current != nullptr && current->data != c? true





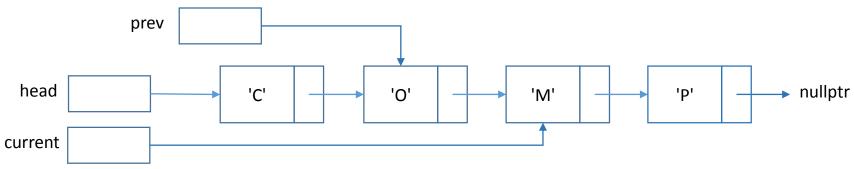
Step 3

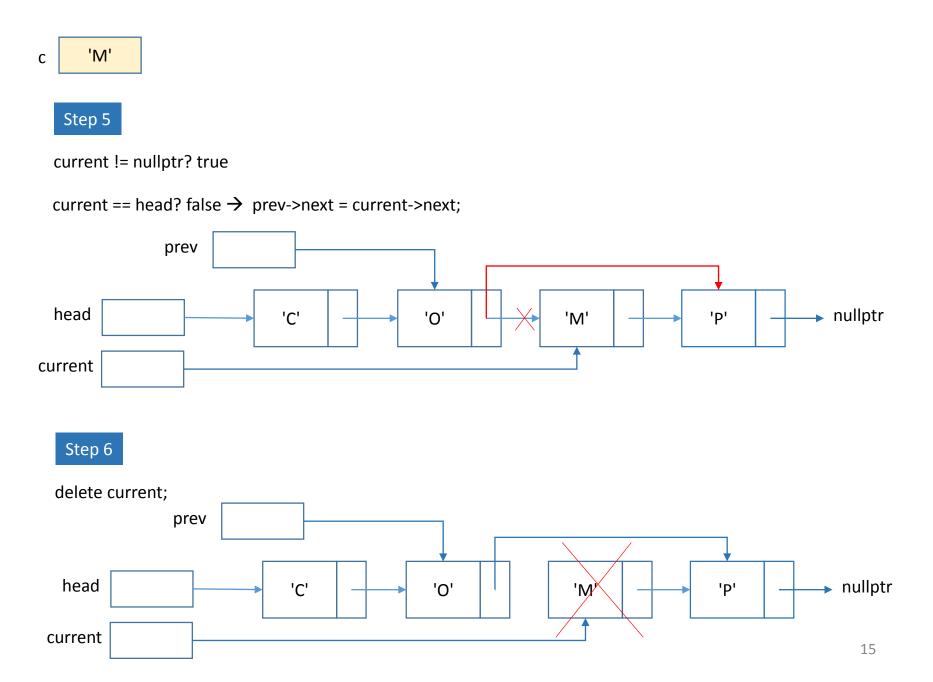
current != nullptr && current->data != c? true



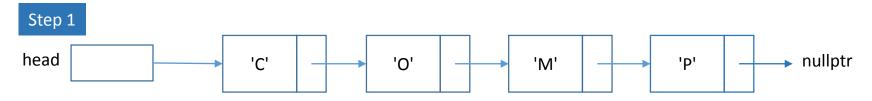
Step 4

current != nullptr && current->data != c? false → Leave while loop!

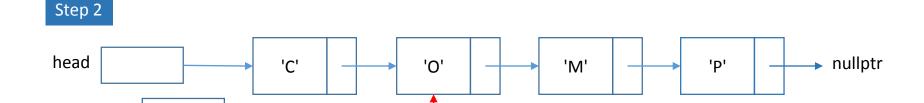




Suppose we pass head pointer to II_delete

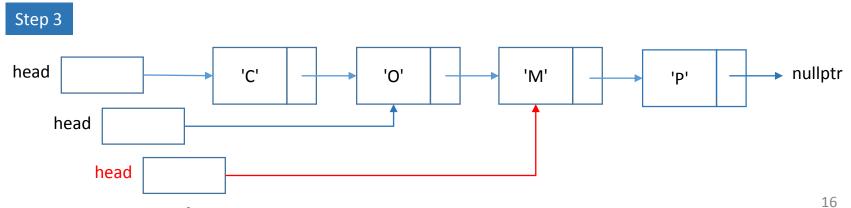


head == nullptr? false → II_delete_all(head->next);

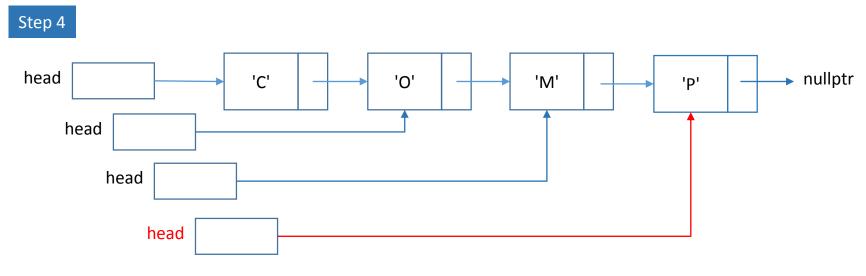


head == nullptr? false → II_delete_all(head->next);

head

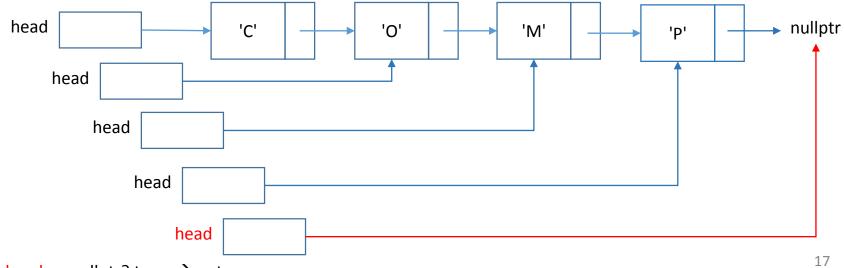


head == nullptr? false → Il_delete_all(head->next);



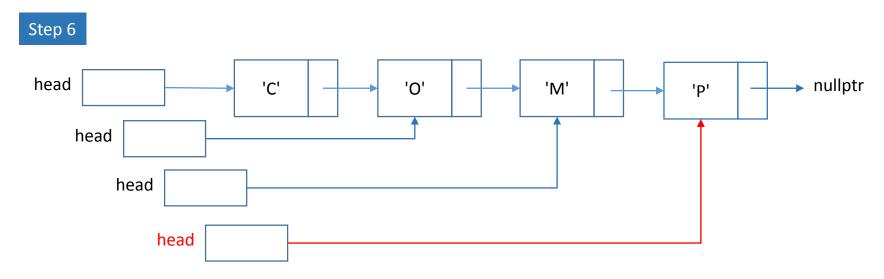
head == nullptr? false → Il_delete_all(head->next);

Step 5

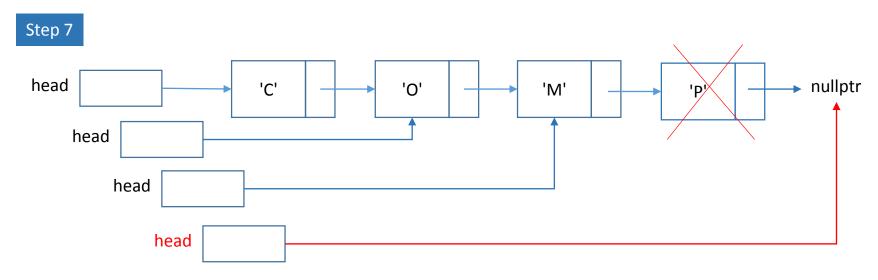


head == nullptr? true → return;

Topic 9: Linked List --- Demonstrating what II_delete_all does



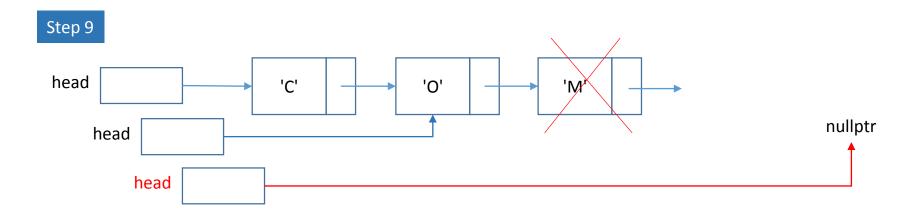
delete head; head = nullptr;



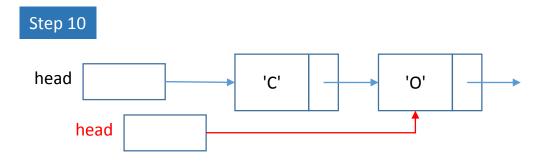
delete head; head = nullptr; leave II_delete_all

head 'C' 'O' 'M' head head

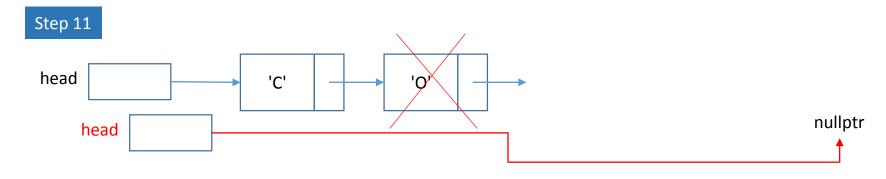
delete head; head = nullptr; leave II_delete_all



delete head; head = nullptr; leave II_delete_all



delete head; head = nullptr; leave II_delete_all



delete head; head = nullptr; leave II_delete_all



delete head; head = nullptr; leave II_delete_all

