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| **Remove duplicate in LL in C++** | |
| #include <iostream>  #include <unordered\_set>  using namespace std;  // Node class for the linked list  class Node {  public:  int data;  Node\* next;  Node(int data) {  this->data = data;  this->next = nullptr;  }  };  // Function to print the linked list  void printList(Node\* head) {  Node\* current = head;  while (current != nullptr) {  cout << current->data;  if (current->next != nullptr) {  cout << " -> ";  } else {  cout << " -> null";  }  current = current->next;  }  cout << endl;  }  // Function to remove duplicates from the linked list  void deleteDups(Node\* head) {  if (head == nullptr || head->next == nullptr) return;  Node\* current = head;  while (current != nullptr) {  Node\* runner = current;  while (runner->next != nullptr) {  if (runner->next->data == current->data) {  runner->next = runner->next->next;  } else {  runner = runner->next;  }  }  current = current->next;  }  }  int main() {  // Creating a linked list with 5 hard-coded nodes  Node\* head = new Node(1);  head->next = new Node(2);  head->next->next = new Node(2);  head->next->next->next = new Node(3);  head->next->next->next->next = new Node(4);  head->next->next->next->next->next = new Node(3);  head->next->next->next->next->next->next = new Node(5);  // Print the original linked list  cout << "Original Linked List:" << endl;  printList(head);  // Remove duplicates  deleteDups(head);  // Print the linked list after removing duplicates  cout << "Linked List after removing duplicates:" << endl;  printList(head);  return 0;  } | Creates a linked list: 1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null****Initial Linked List Creation****  | **Node** | **Value** | **Next Points To** | | --- | --- | --- | | head | 1 | Node 2 | | head->next | 2 | Node 2 | | ... | 2 | Node 3 | | ... | 3 | Node 4 | | ... | 4 | Node 3 | | ... | 3 | Node 5 | | ... | 5 | nullptr |  🖨️ ****Initial Output from**** printList(head) Original Linked List:  1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null 🔁 deleteDups(head) Dry RunLoop Over current Node  | **current->data** | **Duplicate(s) Found and Removed** | **Resulting List** | | --- | --- | --- | | 1 | None | 1 → 2 → 2 → 3 → 4 → 3 → 5 | | 2 | Second 2 removed | 1 → 2 → 3 → 4 → 3 → 5 | | 3 | Second 3 removed | 1 → 2 → 3 → 4 → 5 | | 4 | None | 1 → 2 → 3 → 4 → 5 | | 5 | None | 1 → 2 → 3 → 4 → 5 |  ✅ ****Final Linked List After**** deleteDups(head) Linked List after removing duplicates:  1 -> 2 -> 3 -> 4 -> 5 -> null |
| Original Linked List:  1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null  Linked List after removing duplicates:  1 -> 2 -> 3 -> 4 -> 5 -> null | |