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| **Sublist in C++** | |
| #include <iostream>  using namespace std;  class Node {  public:  int data;  Node\* next;  Node(int data) {  this->data = data;  this->next = nullptr;  }  };  void printList(Node\* head) {  Node\* current = head;  while (current != nullptr) {  cout << current->data << " -> ";  current = current->next;  }  cout << "null" << endl;  }  void sublists(Node\* head) {  Node\* i = head;  while (i != nullptr) {  Node\* j = i;  while (j != nullptr) {  cout << j->data << " -> ";  j = j->next;  }  cout << "null" << endl;  i = i->next;  }  }  int main() {  // Create 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 linked list  printList(head);  // Print all sublists  sublists(head);  // Clean up memory  Node\* current = head;  while (current != nullptr) {  Node\* next = current->next;  delete current;  current = next;  }  return 0;  } | ****Linked List Creation****  | **Step** | **Node Created** | **data** | **next Points To** | | --- | --- | --- | --- | | 1 | head | 1 | Node with 2 | | 2 | head->next | 2 | Node with 2 | | 3 | ... | 2 | Node with 3 | | 4 | ... | 3 | Node with 4 | | 5 | ... | 4 | Node with 3 | | 6 | ... | 3 | Node with 5 | | 7 | ... | 5 | nullptr |  📤 printList(head) Output 1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null 🔁 sublists(head) Dry Run Table  | **Outer Loop (i->data)** | **Inner Loop Iteration (→ values printed)** | | --- | --- | | 1 | 1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null | | 2 (1st) | 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null | | 2 (2nd) | 2 -> 3 -> 4 -> 3 -> 5 -> null | | 3 | 3 -> 4 -> 3 -> 5 -> null | | 4 | 4 -> 3 -> 5 -> null | | 3 (last) | 3 -> 5 -> null | | 5 | 5 -> null |  🧹 Cleanup (Memory Deallocation)  | **Step** | **Node Deleted** | **data** | | --- | --- | --- | | 1 | head | 1 | | 2 |  | 2 | | 3 |  | 2 | | 4 |  | 3 | | 5 |  | 4 | | 6 |  | 3 | | 7 |  | 5 | |
| 1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null  1 -> 2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null  2 -> 2 -> 3 -> 4 -> 3 -> 5 -> null  2 -> 3 -> 4 -> 3 -> 5 -> null  3 -> 4 -> 3 -> 5 -> null  4 -> 3 -> 5 -> null  3 -> 5 -> null  5 -> null | |