

```
1  #include <iostream>
2
3  class Node {
4  public:
5      int data;
6      Node* next;
7
8      Node(int value) : data(value), next(nullptr) {}
9  };
10
11 class SinglyLinkedList {
12 private:
13     Node* head;
14
15 public:
16     SinglyLinkedList() : head(nullptr) {}
17
18     void insertAtBeginning(int value) {
19         Node* newNode = new Node(value);
20         newNode->next = head;
21         head = newNode;
22     }
23
24     void insertAtEnd(int value) {
25         Node* newNode = new Node(value);
26         if (head == nullptr) {
27             head = newNode;
28         } else {
29             Node* current = head;
30             while (current->next != nullptr) {
31                 current = current->next;
32             }
33             current->next = newNode;
34         }
35     }
36
37     void deleteNode(int value) {
38         Node* current = head;
39         Node* prev = nullptr;
40
41         while (current != nullptr && current->data != value) {
42             prev = current;
43             current = current->next;
44         }
45
46         if (current != nullptr) {
47             if (prev != nullptr) {
48                 prev->next = current->next;
49             } else {
```

```
50         head = current->next;
51     }
52     delete current;
53 }
54 }
55
56 void display() {
57     Node* current = head;
58     while (current != nullptr) {
59         std::cout << current->data << " ";
60         current = current->next;
61     }
62     std::cout << std::endl;
63 }
64 };
65
66 int main() {
67     SinglyLinkedList sll;
68
69     sll.insertAtEnd(10);
70     sll.insertAtEnd(20);
71     sll.insertAtEnd(30);
72
73     std::cout << "Singly Linked List: ";
74     sll.display();
75
76     sll.insertAtBeginning(20);
77     std::cout << "Singly Linked List after inserting at the beginning: ";
78     sll.display();
79
80     sll.deleteNode(10);
81     std::cout << "Singly Linked List after deleting : ";
82     sll.display();
83
84     return 0;
85 }
86
```