

```
1 #include <stdio.h>
2 #define MAX 100
3 struct Node {
4     int data;
5     int next;
6 };
7 struct Node list[MAX];
8 int nodeCount = 0;
9 int head = -1;
10 int createNode(int data) {
11     list[nodeCount].data = data;
12     list[nodeCount].next = -1;
13     return nodeCount++;
14 }
15 void append(int data) {
16     int newNode = createNode(data);
17     if (head == -1) {
18         head = newNode;
19     } else {
20         int temp = head;
21         while (list[temp].next != -1)
22             temp = list[temp].next;
23         list[temp].next = newNode;
24     }
25 }
```

```
26 void display() {
27     int temp = head;
28     while (temp != -1) {
29         printf("%d", list[temp].data);
30         if (list[temp].next != -1) printf("->");
31         temp = list[temp].next;
32     }
33     printf("\n");
34 }
35 int main() {
36     int n, val;
37     scanf("%d", &n);
38     for (int i = 0; i < n; i++) {
39         scanf("%d", &val);
40         append(val);
41     }
42     printf("Linked List: ");
43     display();
44     return 0;
45 }
```

4

6 7 8 9

Linked List: 6->7->8->9