

```
1  // Given pointer to the head node of a linked list,
2  // the task is to reverse the linked list. We need to
3  // reverse the list by changing the links between nodes.
4  class reverseLinkedList {
5
6      static Node head;
7
8      public static void main(String[] args) {
9          reverseLinkedList list = new reverseLinkedList();
10         head = new Node(85);
11         head.next = new Node(15);
12         head.next.next = new Node(4);
13         head.next.next.next = new Node(20);
14
15         System.out.println("Given Linked list");
16         list.printList(head);
17         head = list.reverse(head);
18         System.out.println();
19         System.out.println("Reversed linked list ");
20         list.printList(head);
21     }
22
23     Node reverse(Node node) {
24         Node prev = null;
25         Node current = node;
26         Node next = null;
27         while (current != null) {
28             next = current.next;
29             current.next = prev;
30             prev = current;
31             current = next;
32         }
33         node = prev;
34         return node;
35     }
36
37     void printList(Node node) {
38         while (node != null) {
39             System.out.print(node.data + " ");
40             node = node.next;
41         }
42     }
43
44     static class Node {
45
46         int data;
47         Node next;
48
49         Node(int d) {
50             data = d;
51             next = null;
52         }
53     }
54 }
```