```
package com.wipro;
public class MEREGESORTED_LIST {
    public static ListNode mergeTwoLists(ListNode 11, ListNode 12) {
        ListNode dummy = new ListNode(-1); // Dummy node to simplify edge cases
        ListNode current = dummy;
        while (11 != null && 12 != null) {
            if (11.value <= 12.value) {</pre>
                current.next = 11;
                11 = 11.next;
            } else {
                current.next = 12;
                12 = 12.next;
            current = current.next;
        }
        // If one of the lists is not empty, append it to the result
        if (l1 != null) {
            current.next = 11;
        } else if (12 != null) {
            current.next = 12;
        return dummy.next; // Return the merged list, which starts after the dummy node
    }
    public static void main(String[] args) {
        // Create first sorted linked list: 1 -> 3 -> 5
        ListNode node1 = new ListNode(1);
        ListNode node2 = new ListNode(3);
        ListNode node3 = new ListNode(5);
        node1.next = node2;
        node2.next = node3;
        // Create second sorted linked list: 2 -> 4 -> 6
        ListNode node4 = new ListNode(2);
        ListNode node5 = new ListNode(4);
        ListNode node6 = new ListNode(6);
        node4.next = node5;
        node5.next = node6;
        // Merge the two sorted linked lists
        ListNode mergedList = mergeTwoLists(node1, node4);
        // Print the merged sorted linked list
        System.out.println("Merged sorted linked list:");
        printList(mergedList);
    }
    public static void printList(ListNode head) {
        ListNode current = head;
```

```
while (current != null) {
                     System.out.print(current.value + " ");
                     current = current.next;
              System.out.println();
       }
}
               ② RemoveDuplic... ② *Node.java ② Stacksort.java ② LinkedListMi... ② MEREGESORTED... ⋈ ¾30 □ □ 문 Outline ⋈

    ★Linkedlist...

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   3 public class MEREGESORTED_LIST {
                                                                                                                           s mergeTwoLists(ListNode, Li
                                                                                                                            s main(String[]): void
         public static ListNode mergeTwoLists(ListNode 11, ListNode 12) {
    ListNode dummy = new ListNode(-1); // Dummy node to simplify edge cases
    ListNode current = dummy;
                                                                                                                            • s printList(ListNode): void
             while (l1 != null && l2 != null) {
  if (l1.value <= l2.value) {
    current.next = l1;
    l1 = l1.next;
  } else {</pre>
                     current.next = 12;
12 = 12.next;
                  current = current.next;
           // If one of the lists is not empty, append it to the result
if (11 != null) {
    current.next = 11;
    else if (12 != null) {
        current.next = 12;
}
              return dummy.next; // Return the merged list, which starts after the dummy node
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Merged sorted linked list:
1 2 3 4 5 6
```