```
void append(int val) {
     Node* current_node2 = list2.head;
while (current_node1 != NULL && current_node2 != NULL) {
   if (current_node1->val <= current_node2->val) {
                append(current_node2->val);
           append(current_node1->val);
           append(current_node2->val);
void display() {
     while (tmp != NULL) {
   cout << tmp->val << " ";
   tmp = tmp->next;
list1.append(1);
list1.append(3);
list1.append(5);
list2.append(2);
list2.append(4);
LinkedList merged_list;
merged list.display();
```