## 剑指offer第16题

```
package niuke;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
/**
* @author tfxidian E-mail: tfxidian@163.com
* @version 创建时间: 2018年10月12日 上午10:51:37
* 类说明
*/
public class MergeList {
    public static class ListNode {
        int val;
        ListNode next = null;
        ListNode(int val) {
            this.val = val;
    public static void main(String[] args) {
        ListNode [] listNode = new ListNode[6];
        for (int i = 0; i < 6; i++) {
            listNode[i] = new ListNode(100+i);
        for (int i = 0; i < listNode.length-1; i++) {</pre>
            listNode[i].next = listNode[i+1];
        }
        ListNode [] listNode2 = new ListNode[6];
        for (int i = 0; i < 6; i++) {
            listNode2[i] = new ListNode(i+7);
        for (int i = 0; i < listNode2.length-1; i++) {</pre>
            listNode2[i].next = listNode2[i+1];
        ListNode node = Merge(listNode[0], listNode2[0]);
```

```
public static ListNode Merge(ListNode list1,ListNode list2) {
  if (list1 ==null) {
   return list2;
  }
  if (list2 == null) {
    return list1;
  List<Integer> aList = new ArrayList<Integer>();
  ListNode node = list1;
  while (node!=null) {
    aList.add(node.val);
   node = node.next;
  }
  node = list2;
  while (node!=null) {
   aList.add(node.val);
   node = node.next;
  }
  int len = aList.size();
  Collections.sort(aList);
  ListNode listNode2[] = new ListNode[len];
    for (int i = 0; i < len; i++) {
        listNode2[i] = new ListNode(aList.get(i));
   }
    for (int i = 0; i < listNode2.length-1; i++) {</pre>
        listNode2[i].next = listNode2[i+1];
    }
   node = listNode2[0];
    while (node!=null) {
       aList.add(node.val);
        node = node.next;
    }
    return listNode2[0];
}
```