链滴

两个有序（升序）的单向链表合并成一个，并确保合并后的链表也是升序的

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来源网站：链滴
许可协议：署名-相同方式共享 4.0 国际 (CC BY-SA 4.0)

```
<p>单向升序链表定义：</p>
<p>public class ListNode {</p>
<p>int val;</p>
<p>ListNode next;</p>
<p>ListNode(int x) { val = x; }</p>
<p>}</p>
<p>合并代码：<br>
public class Solution {</p>
<p>public ListNode mergeTwoLists(ListNode l1, ListNodel2) {</p>
<p><strong>if</strong>(l1 == <strong>null</strong>){</p>
<p>System.<em>out</em>.println("l1 == null");</p>
<p><strong>return</strong> l2;</p>
<p>}</p>
<p><strong>if</strong>(l2 == <strong>null</strong>){</p>
<p>System.<em>out</em>.println("l2 == null");</p>
<p><strong>return</strong> l1;</p>
<p>}</p>
<p>ListNode node = l1;</p>
<p>ListNode node1 = l2;</p>
<p>ListNode mergeHead = <strong>null</strong>;</p>
<p><strong>if</strong>(node.val &lt; node1.val){</p>
<p>mergeHead = node;</p>
<p>mergeHead.next = mergeTwoLists(node.next,node1);</p>
<p>}<strong>else</strong>{</p>
<p>mergeHead = node1;</p>
<p>mergeHead.next = mergeTwoLists(node,node1.next);</p>
<p>}</p>
<p><strong>return</strong> mergeHead;</p>
<p>}</p>
<p>}</p>
```