

Selection Sort Linked List

```
1 class Solution(object):
2     def selectionSort(self, head):
3         """
4         input: ListNode head
5         return: ListNode
6         """
7         # write your solution here
8         new_head = ListNode(None)
9         new_head.next = head
10        tail = new_head
11        while tail.next:
12            prev, curr = tail, tail.next
13            min_node, min_node_pre = curr, prev
14            while curr:
15                if curr.val < min_node.val:
16                    min_node, min_node_pre = curr, prev
17                prev, curr = curr, curr.next
18            min_node_pre.next = min_node.next
19            next = tail.next
20            tail.next = min_node
21            min_node.next = next
22            tail = tail.next
23        return new_head.next
```