

Reverse a Linked List

Question: Given a Linked List, reverse it..

Solutions:

```
class ListNode:
```

```
    def __init__(self, val, next=None):
```

```
        self.val = val
```

```
        self.next = next
```

```
class Solution:
```

```
    # @param {ListNode} head
```

```
    # @return {ListNode}
```

```
    def reverseList(self, head):
```

```
        result = None
```

```
        node = head
```

```
        while node != None:
```

```
            tmp = node.next
```

```
            node.next = result
```

```
            result = node
```

```
            node = tmp
```

```
        return result
```

```
def printll(self, node):
```

```
    while node:
```

```
        print ( node.val )
```

```
        node = node.next
```

```
l4 = ListNode(4)
```

```
l3 = ListNode(3,l4)
```

```
l2 = ListNode(2,l3)
```

```
l1 = ListNode(1,l2)
```

```
l0 = ListNode(5,l1)
```

```
result0 = Solution().reverseList(l0)
```

```
Solution().printll(result0)
```