



链滴

linkedlist 应用之 golang 解 leetcode203

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原文链接: <https://ld246.com/article/1538667593978>

来源网站: [链滴](#)

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0、main函数测试

```
package main

import (
    "important_test/data_structer/linkList"
    "fmt"
)

func main() {

    var s = []interface{}{25, 25, 25, 25, 27, 28, 29, 30}

    link := linkList.SliceToList(s)
    fmt.Println(link.ToString())

    link.NormalRemove(25)
    fmt.Println(link.ToString())
}

//leetcode题解递归法
type ListNode struct {
    Val int
    Next *ListNode
}

func removeElements(head *ListNode, val int) *ListNode {
    if head == nil {
        return nil
    }
    head.Next = removeElements(head.Next, val)
    if head.Val == val {
        return head.Next
    } else {
        return head
    }
}
```

1、使用普通删除法 带虚拟头节点

```
//正常去除节点
func (this *LinkList) NormalRemove(elem interface{}) {

    prev := this.dummyHead

    for prev.Next != nil {
        cur := prev.Next
        fmt.Println(cur.Elem)
        if cur.Elem != elem {
            prev = prev.Next
        }
        prev.Next = cur.Next
    }
}
```

```
    }  
    return  
}
```

2、递归法

```
func (this *LinkedList) RemoveRepeat(val interface{}) {  
    this.RecursiveRemove(this.dummyHead, val)  
}
```

//递归法Remove链表中重复的值

```
func (this *LinkedList) RecursiveRemove(head *node, elem interface{}) *node {  
    if head == nil {  
        return nil  
    }  
  
    head.Next = this.RecursiveRemove(head.Next, elem)  
  
    if head.Elem == elem {  
        return head.Next  
    } else {  
        return head  
    }  
}
```

https://github.com/xhaoxiong/data_structer > 具体代码