

25/1/24

LEETCODE 2 - Reversed Linked List

```
struct ListNode* reverseBetween(struct  
ListNode* head, int left, int right)  
{  
    if (head == NULL || left == right)  
        return head;
```

```
    struct ListNode* dummy = (struct ListNode*)  
        malloc(sizeof(struct ListNode));  
    dummy->next = head;
```

```
    struct ListNode* preleft = dummy;  
    for(int i=1; i<left; i++)  
    {  
        preleft = preleft->next;  
    }
```

```
    struct ListNode* curr = preleft->next;  
    struct ListNode* prev = NULL;  
    struct ListNode* pnext = NULL;
```

```
    for(int i=0; i<=right-left; i++)  
    {  
        next = curr->next;  
        curr->next = prev;  
        prev = curr;  
        curr = next;  
    }
```

```
    preleft->next->next = curr;  
    preleft->next = prev;  
    if(left==1)  
    {  
        head = dummy->next;  
    }
```

```
free(dummy);  
return head;  
}
```

INPUT

[1, 2, 3, 4, 5]

left = 2

right = 4

OUTPUT

[1, 4, 3, 2, 5]

~~15/11/24~~