092. Reverse Linked List II

092 Reverse Linked List II

• Linked List

Description

```
Reverse a linked list from position m to n. Do it in-place and in one-pass.
```

```
For example: Given 1->2->3->4->5->NULL, m=2 and n=4, return 1->4->3->2->5->NULL. 

Note: Given m, n satisfy the following condition: 1 \le m \le n \le length of list.
```

1. Thought line

2. Linked List

```
class Solution {
  ListNode* reverseBetween(ListNode* head, int m, int n) {
      ListNode* dummyHead = new ListNode(0);
      dummyHead->next = head;
      unsigned int size = 0;
      ListNode* ptr = dummyHead->next;
      ListNode* ptr_st = dummyHead;
      ListNode* ptr_ed = dummyHead->next;
      while(ptr!=nullptr){
           ++size;
           ListNode* ptr_next = ptr->next;
           if(size<=m){</pre>
               ptr_st = (size<m)?ptr_st->next:ptr_st;
               ptr_ed = (size<m)?ptr_ed->next:ptr_ed;
           else if (size>m && size<=n){</pre>
               ListNode* ptr_st_next = ptr_st->next;
               ptr_st->next = new ListNode(ptr->val);
               ptr_st->next->next = ptr_st_next;
               ptr_ed->next = ptr->next;
```

```
break;
ptr = ptr_next;
}
return dummyHead->next;
}
};
```