Reverse both parts

Accuracy: 68.23% Submissions: 85 Points: 30

Given a linked list and a number k. You have to reverse first part of linked list with k nodes and the second part with n-k nodes.

Example 1:

```
Input: 1 -> 2 -> 3 -> 4 -> 5
k = 2
Output: 2 -> 1 -> 5 -> 4 -> 3
Explanation: As k = 2 , so the first part 2
nodes: 1 -> 2 and the second part with 3 nodes:
3 -> 4 -> 5. Now after reversing the first part:
2 -> 1 and the second part: 5 -> 4 -> 3.
So the output is: 2 -> 1 -> 5 -> 4 -> 3
```

Example 2:

```
Input: 1 -> 2 -> 4 -> 3
k = 3
Output: 4 -> 2 -> 1 -> 3
Explanation: As k = 3 , so the first part
3 nodes: 4 -> 2 -> 1 and the second part
with 1 nodes: 3. Now after reversing the
first part: 1 -> 2 -> 4 and the
second part: 3. So the output is: 1 -> 2 -> 4 -> 3
```

Your Task:
You don't need to read input or print anything. Your task is to complete the function **reverse()** which takes head node of the linked list and a integer k as input parameters and returns head node of the linked list after reversing both parts.

Expected Time Complexity: O(N)

C++ (g++ 5.4) Test against custom input

```
1   // } Driver Code Ends
49  //User function Template for C++
50
51  class Solution
52  {
53  public:
54
55      Node *reverse(Node *head, int k)
56      {
57          // code here
58      }
59  };
60
61  // } Driver Code Ends
```

Compile & Run Submit