得到链表的倒数第N个节点

给定一个链表,得到链表的倒数第 n 个节点并返回。例如,

给定一个链表: 1->2->3->4->5, 并且 n = 2. 倒数第两个节点为4

Input: 1->2->3->4->5, 2

Output: 2

Input: 3->5->9->6->8, 3

Output: 9

说明:

给定的 n 始终是有效的。

尝试一次遍历实现。

```
public ListNode getKthToLast(ListNode head, int k) {
   int length = getLength(head);
   int index = length - k;
   ListNode cur = head;
   while (index-- != 0) {
      cur = cur.next;
   }
   return cur;
}
```

```
public ListNode getKthToLast(ListNode head, int k) {
   ListNode first = head;
   while (k-- != 0) {
      first = first.next;
   }
   ListNode second = head;
   while (first != null) {
      first = first.next;
      second = second.next;
   }
   return second;
}
```

```
class Index {
    int value = 0;
public ListNode getKthToLast(ListNode head, int k) {
    Index index = new Index();
    return kthToLast(head, k, index);
private ListNode kthToLast(ListNode head, int k, Index index) {
    if (head == null) {
        return null;
    ListNode node = kthToLast(head.next, k, index);
    index.value = index.value + 1;
    if (index.value == k) {
        return head;
    return node;
```