```
void _swapPairs(struct ListNode **result, struct ListNode **first, struct ListNode **second)
    struct ListNode * tmp;
    if(*first && *second)
         (*first)->next = (*second)->next;
(*second)->next = *first;
         tmp = *first;
*first = *second;
*second = tmp;
    if(*result == NULL)
         *result = *first;
    }else
         (*result) ->next = *first;
struct ListNode* swapPairs(struct ListNode* head){
    struct ListNode* first;
struct ListNode* second;
struct ListNode* result;
     struct ListNode* prev;
    int index;
    first = NULL;
second = NULL;
result = NULL;
    while(true)
         if( (NULL == first) && (NULL == second) )
              first = head;
              if(first)
                   second = first->next;
              prev = NULL;
         }else
              index = 0;
              while( (index < 2) && (first && second) )</pre>
                    prev = first;
first = first->next;
second = second->next;
                    index++;
         _swapPairs((prev == NULL) ? &result : &prev, &first, & second);
         if(second == NULL)
              break;
    return result;
```