```
#include<stdio.h>
#include<stdlib.h>
struct ListNode {
  int val;
  struct ListNode* next;
}
int countNodes(struct ListNode* head) {
  int count = 0;
  struct ListNode* current = head;
  while (current != NULL) {
    count++;
    current = current->next;
  }
  return count;
}
int main() {
  // Create the linked list nodes
  struct ListNode* head = (struct ListNode*)malloc(sizeof(struct ListNode));
  head->val=1;
  head->next = (struct ListNode*)malloc(sizeof(struct ListNode));
  head->next->val = 2;
  head->next->next = (struct ListNode*)malloc(sizeof(struct ListNode));
  head->next->next->val = 3;
  head->next->next->next = (struct ListNode*)malloc(sizeof(struct ListNode));
  head->next->next->val = 5;
  head->next->next->next->next = (struct ListNode*)malloc(sizeof(struct ListNode));
  head->next->next->next->val = 8;
  head->next->next->next->next = NULL;
  int result = countNodes(head);
  printf("Number of nodes: %d\n", result);
```

```
// Free the memory allocated for the linked list nodes
struct ListNode* current = head;
struct ListNode* next;
while (current != NULL) {
    next = current->next;
    free(current);
    current = next;
}
return 0;
}
```