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1. Write a C Program to Reverse a Linked List in groups of given size
#include<stdio.h>
#include<stdlib.h>
struct Node
{
int data;
struct Node* next;
};
struct Node reverse (struct Node head, int k)
{
struct Node current = head;
struct Node next = NULL;
struct Node prev = NULL;
int count = 0;
while (current != NULL && count < k)
{
next = current->next;
current->next = prev;
prev = current;
current = next;
count++;
}
if (next != NULL) {
head->next = reverse(next, k);
return prev;
}
void push(struct Node** head_ref, int new_data)
{
struct Node* new_node =(struct Node*) malloc(sizeof(struct Node));
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new_node->data = new_data;
new_node->next = (*head_ref);
(*head_ref) = new_node;
}
void printList(struct Node *node)
while (node != NULL)
printf("%d ", node->data);
node = node->next;
}
}
int main(void)
{
struct Node* head = NULL;
push(&head, 8);
push(&head, 7);
push(&head, 6);
push(&head, 5);
push(&head, 4);
push(&head, 3);
push(&head, 2);
push(&head, 1);
printf("\nGiven linked list \n");
printList(head);
head = reverse(head, 2);
printf("\nReversed Linked list \n");
```

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printList(head);
return(0);
}
```