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/*
* C Program to Reverse a Linked List using iterative
*/
#include<stdio.h>
#include<malloc.h>
* A linked list node
*/
struct node
{
  int data;
  struct node* next;
};
//Globally initialized head pointer
struct node* head = NULL;
//function prototyping
struct node* create_node(int);
void insert_begin(int);
void reverse_list();
void print();
int main()
{
  /* Create some nodes and insert data into them */
 // insert_begin(10);
  //insert_begin(90);
  //insert_begin(31);
  //insert_begin(78);
```

```
//insert_begin(99);
  printf("Linked List before reversed: \n");
  print();
  reverse_list();
  printf("\nLinked List after reversed: \n");
  print();
  return 0;
}
/*
* Creates a new node using the malloc function
*/
struct node* create_node(int data)
{
  struct node* new_node = (struct node*) malloc (sizeof(struct node));
  if (new_node == NULL)
  {
    printf("Memory can't be allocated for new node");
    return NULL;
  }
  else
  {
    new_node -> data = data;
    new_node -> next = NULL;
    return new_node;
  }
}
```

```
* insert a new node at the beginning of the list
*/
void insert_begin(int data)
  struct node* new_node = create_node(data);
 if (new_node != NULL)
  {
    new_node -> next = head;
    head = new_node;
 }
}
* reverse the linked list
void reverse_list()
{
 if (head == NULL)
  {
    return;
  }
  struct node* temp = head;
  struct node* new_head = NULL;
 // create new nodes and insert them beginning
 while (temp != NULL)
  {
    struct node* new_node = create_node(temp->data);
    new_node->next = new_head;
```

```
new_head = new_node;
    temp = temp->next;
 }
 // update the head with the new head
 head = new_head;
}
* prints the linked list
*/
void print()
{
 struct node* temp = head;
 while (temp != NULL)
 {
    printf("%d --> ", temp->data);
    temp = temp->next;
 }
 printf("NULL \n");
}
```