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1: // Iterative C program to reverse a linked list
2: #include <stdio.h>
3: #include <stdlib.h>
4:
5: /* Link list node */
6: struct Node {
7:     int data;
8:     struct Node* next;
9: };
10:
11: /* Function to reverse the linked list */
12: static void reverse(struct Node** head_ref)
13: {
14:     struct Node* prev = NULL;
15:     struct Node* current = *head_ref;
16:     struct Node* next = NULL;
17:     while (current != NULL) {
18:         // Store next
19:         next = current->next;
20:
21:         // Reverse current node's pointer
22:         current->next = prev;
23:
24:         // Move pointers one position ahead.
25:         prev = current;
26:         current = next;
27:     }
28:     *head_ref = prev;
29: }
30:
31: /* Function to push a node */
32: void push(struct Node** head_ref, int new_data)
33: {
34:     struct Node* new_node
35:         = (struct Node*)malloc(sizeof(struct Node));
36:     new_node->data = new_data;
37:     new_node->next = (*head_ref);
38:     (*head_ref) = new_node;
39: }

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40:
41: /* Function to print linked list */
42: void printList(struct Node* head)
43: {
44:     struct Node* temp = head;
45:     while (temp != NULL) {
46:         printf("%d ", temp->data);
47:         temp = temp->next;
48:     }
49: }
50:
51: /* Driver code*/
52: int main()
53: {
54:     /* Start with the empty list */
55:     struct Node* head = NULL;
56:
57:     push(&head, 20);
58:     push(&head, 4);
59:     push(&head, 15);
60:     push(&head, 85);
61:
62:     printf("Given linked list\n");
63:     printList(head);
64:     reverse(&head);
65:     printf("\nReversed Linked list \n");
66:     printList(head);
67:     getchar();
68: }
69:

```