

b) HACKER RANK: Reverse a double linked list

CODE:

```
DoublyLinkedListNode* reverse(DoublyLinkedListNode* llist) {  
    DoublyLinkedListNode* current = llist;    DoublyLinkedListNode*  
temp = NULL;  
  
    // Traverse the list and swap prev and next pointers for each node  
while (current != NULL) {    temp = current->prev;    current->prev =  
current->next;    current->next = temp;  
  
    // Move to the next node  
current = current->prev;  
}  
  
    // Update the head pointer to the last node (previous head becomes the  
new tail)    if (temp != NULL) {  
        llist = temp->prev;  
    }  
  
    return llist;  
}
```

OUTPUT:

The screenshot shows a green banner at the top with the text "Congratulations" and "You solved this challenge. Would you like to challenge your friends?" followed by social media icons for Facebook, Twitter, and LinkedIn. A "Next Challenge" button is located on the right side of the banner. Below the banner, there is a sidebar on the left with a list of test cases, each marked with a green checkmark and labeled "Test case 0" through "Test case 6". The main area displays the "Success" message, the "Input (stdin)" which is a list of numbers: 1, 4, 1, 2, 3, 4, and the "Expected Output" which is the reversed list: 4, 3, 2, 1. There are "Download" links for both the input and the expected output.

Input (stdin)
1
4
1
2
3
4

Expected Output
4
3
2
1