**Reverse a Doubly Linked List: -**

Given a doubly linked list of n elements. The task is to **reverse**the doubly linked list.

**Input:**  
First line of input contains number of testcases T. For each testcase, first line of input contains number of nodes n, to be inserted into the linked list and next line contains data of n nodes.

**Output:**  
There will be **two lines** of output for each testcase, which contains the elements of linked list. The first line contains the elements from head to tail separated by spaces. The second line contains elements fron tail to head separated by spaces.

**User Task:**  
Your task is to complete the given function **reverseDLL**(), which takes **head**reference as argument and should **reverse**the elements so that the tail becomes the new head and all pointers are correctly pointed. You need to **return**the **new head** of the reversed list. The **printing**and **verification**is done by the **driver**code.

**Expected Time Complexity:**O(n).  
**Expected Auxiliary Space:**O(1).

**Constraints:**  
1 <= T <= 100  
1 <= n <= 103  
0 <= value <= 103

**Example:  
Input:**  
2  
3  
3 4 5  
8  
75 122 59 196 30 38 36 194

**Output:**  
5 4 3  
194 36 38 30 196 59 122 75