UCS 1302 Data Structures

Tutorial 1

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1. Given an array of size n and multiple values around which we need to left rotate the array. How to quickly find multiple left rotations? Print the array using O(n) time with O(1) space

Examples:

Input : arr[] = {1, 3, 5, 7, 9}

k1 = 1

k2 = 3

k3 = 4

k4 = 6

Output : 3 5 7 9 1

7 9 1 3 5

9 1 3 5 7

3 5 7 9 1

Input : arr[] = {1, 3, 5, 7, 9}

k1 = 14

Output : 9 1 3 5 7

2. Write a nonrecursive procedure to reverse a singly linked list in O(n) time.

3. Reverse the doubly Linked list with O(1) time

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