CSE 109
Online on 1-D Array
Subsection: A2

Time: 50 minutes **Full Marks: 20**

Problem 1

Suppose, you are given a 1-D dimensional array that may contain both positive and negative integers. Find the position of the contiguous subarray of numbers which has the largest sum. For example, if the given array is {-2, -5, 6, -2, -3, 1, 5, -6}, then the sum of the maximum subarray is 7, where the maximum subarray starts from index 2 and ends in index 6. You have to print the starting index and ending index of the maximum subarray sum. If there are two subarrays containing maximum sum, then print any of these.

The first line will contain the value of *n*. Then *n* integers will follow. Print the starting index and ending index of the maximum subarray. *[Marks: 10]*

Sample Input	**Sample Output**
8 2 6 1 -3 -5 8 -3 -5	0 2 (0 5 is also a correct answer)
9 0 -2 1 -3 6 4 -5 -7 8	4 5

Problem 2

In this problem, you will be given an array of *n* elements that may contain both positive and negative integers. Your task is to right rotate the elements of the array. For example, if the array is {-2, -5, 6, -2, -3, 1, 5, -6}, then after right rotating the array will become {-6, -2, -5, 6, -2, -3, 1, 5}.

The first line will contain the value of *n*. Then *n* integers follow. You have to change the array accordingly, and print the changed array. *[Marks: 10]*

Sample Input	**Sample Output**
8 2 6 1 -3 -5 8 -3 -5	-5 2 6 1 -3 -5 8 -3
9 0 -2 1 -3 6 4 -5 -7 8	8 0 -2 1 -3 6 4 -5 -7