Department of Computer Science and Engineering University of Liberal Arts Bangladesh

Mid Term Examination Semester – Fall 2019

Course Title: Data Structure Lab Course Code: CSE 208 (Sec: 1) Duration: 1:00 Hours

PLEASE ANSWER ALL QUESTIONS	Total 20 Mark
Name:	ID:
QUESTION 1	8 mark
Write a C program that uses a linked list to order.	store n integers and prints the linked list in reverse
Input Description:	
The input set contains two lines of input.	
The first line of input is an integer n . The rather elements of the list.	ext line contains n space separated integers denoting
Output Description:	
Output should be one line containing the n	ntegers in reverse order separated by a space.
Sample Input:	
5	
10 40 8 50 45	
Expected Output:	

QUESTION 2 4 marks

Write a program in C to copy the elements of one array into another array in reverse order using pointer.

Input Description:

The input set contains two lines of input.

The first line of input is an integer n. The next line contains n space separated integers denoting the elements of the list.

Sample Input:

5

10 40 8 50 45

Expected Output:

The elements stored in the first array are:

10 40 8 50 45

The elements copied into the second array are:

45 50 8 40 10

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QUESTION 3 4 marks

Write a C program that takes an $R \times C$ grid as input and then calculates the sum of each row. Afterwards, it displays the maximum of the sums.

Input Description:

The first line of input is contains two integers R, C. The next R lines contain C space separated integers denoting the elements of the row.

Sample Input:

32

10 40

8 50

45 20

Expected Output:

The sum of Row 1:50

The sum of Row 2: 58

The sum of Row 3: 65

Row 3 has the largest sum with 65.

QUESTION 4 4 marks

Write a C program that finds the first repeating integer in a list and returns the index of it. If no such elements exist then it will return "-1" (without quotes).

Input Description:

The input set contains two lines of input.

The first line of input is an integer n. The next line contains n space separated integers denoting the elements of the list.

Output Description:

Output should be one line denoting the index of the first repeated integer in the list. If no such element is present in the list, "-1" (without quotes) should be displayed.

Sample Input:

6

10 40 8 50 40 20

Expected Output:

4

END OF QUESTIONS