
CS110: Computing Laboratory

Lab # 10 (1 Question, 10 Marks)

Lab session: ML1

Held on: 10-May-2021 (Mon)

Lab Timings: 09:00 to 12:00 Hours Pages: 2

Submission time: 13:00 Hrs, 10-May-2021

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Question 1: (10 points)

Concept Name Write a C program for the following tasks.

Task 01 Read the following from the given input file using redirection operation

1. First line of the file contains the size of the array
2. Second line contains the contents of the array

Task 02 The array elements must be accessed using pointers.

If array is : 2 5 8 9 7

Access element '2' : *(address of element '2' in array)

or *(base address + index value)

Task 03 Performing the pairwise reverse operation .

If array is : 2 5 8 9 7

Take pair (2,5) and reverse the order and proceed similarly for the successive pairs.

Example Inputs Sample Input and output :

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I/p 1: 5

12 23 56 21 9

O/p 1:

23 12 21 56 9

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I/p 2: 6

12 23 56 21 9 43

O/p 2:

23 12 21 56 43 9

—

I/p 3: 1

12

O/p 3:

12

Marking Criteria Adhere to the following marking criteria

2 Marks Reading the input text file by redirection operation

3 Marks for performing Task 02

3 Marks for performing Task 03

2 Marks for Correct output

Instructions Adhere to the following

File naming Name your file with your roll number followed by `.c` extension

Independent efforts You should make an honest and independent effort in obtaining the solution to the above problem.

Deadline Please honor the submission deadline.

MS Assignments Submission only through MS assignments. No other mode is accepted. Onus of submitting a correct file is on the student; a re-submission through email/request is not entertained. You should submit your roll number `.c` file into MS assignments.

No excuses No excuses please!