CS2093D HARDWARE LAB
WINTER 2022-23
Practice Set 4: (ARRAY & STRING HANDLING)

1. Given two sorted two-digit integer arrays of sizes n and m, write a program to merge them into a new sorted array of size n+m.
2. Write a program to read a n x m matrix and print the transpose.
3. Write a program to read a n x n matrix and find the sum of the squares of the elements in the principal diagonal and print it.
4. Write a program to check whether a given word is present in a given sentence. If present, count the number of occurrences of the given word in the given sentence.
5. Write a program to read n two digit numbers and sort them in ascending order.
6. Write a program to read a string of size n and two numbers n1 and n2 (1<=n1<=n2<=n), compute the substring between the indices n1 and n2 and print the result.

Important Instructions

● You are encouraged to complete all the questions. You are advised to complete the exercises from the previous practice set (Practice Set 3) before you attempt the exercises here.
● Adhere to the academic integrity policy of CSED, NITC.
● Only the students who submitted the practice lab assignments on the due date (22.03.2023) and time (8.00 AM) in Eduserver are eligible for practice lab evaluation.
● You are asked to report to the respective labs for practice at 8.55 AM/01.55 PM (CS01 and CS02/ CS03 and CS04).
● The Lab evaluation will begin at 9.00 AM/2.00 PM and ends at 12 PM/5.00 PM (CS01 and CS02/ CS03 and CS04).
● You must modify the assignments uploaded in the Eduserver according to the TA's request.
● The maximum Mark for the said evaluation is 3.
● All your programs must use formatted I/O.
● The modification Questions are strongly connected with the assignments of practice lab 4 only.
● Upload only a single .txt file (including all the programs)
● Files name(s): <ROLLNO>.<txt>