
Data Structures Application: Term Work 1 (12/04/2023)

1. Write a C program to read text lines from the following interfaces

- a. User input (maximum 10 lines to be read)
- b. Files

Use user-defined functions and display the longest line read.

Do not use any inbuilt function.

2. Re-write the above program to find a pattern of letters in the set lines read from

- a. User input (maximum 10 lines to be read)
- b. Files

Use user-defined functions and display the lines having the matched pattern of letters

Do not use any inbuilt function.

Ah, Dear! could you and I with Fate conspire
To grasp this sorry Scheme of Things entire,
Would not we shatter it to bits -- and then
Re-mould it nearer to the Heart's Desire

Pattern: "ould"

Ah, Dear! could you and I with Fate conspire
Would not we shatter it to bits -- and then
Re-mould it nearer to the Heart's Desire

3. Write a C program to multiply two Matrices, use user-defined functions to perform the following tasks

- a. Reading of matrix
- b. Printing of matrix
- c. Multiplication of matrix
(using pointers as arguments to these functions only)