



Manipal Institute of Technology Manipal

(A constituent unit of MAHE, Manipal)

PSUC PENDING LAB EXAMINATION (CSE 1061)

Name: Roll No: Reg No: Sec:

Write a single C Program to:

- Read and display an $M \times N$ matrix **mat** consisting of decimal numbers in main().
- Replace every number of the array by the product of the digits in the main and display the resultant matrix **mat**.
- Write a function **Replace ()** that accepts 2D array as a parameter. Using this function replace all the even numbers in the odd position of the array by its sum of digits while all the odd numbers in the even position of the array by their reversed value. Display the resultant matrix in the main.

Note: Odd position is when both index of the matrix are odd numbers.

Sample Input:

Enter the size of Matrix:

3 3

Enter the elements:

43 23 63

54 76 87

93 10 31

Sample Output:

a. Entered elements:

43 23 63

54 76 87

93 10 31

b. After replacing all by Product of the digits:

12 6 18

20 42 56

27 0 3

c. After function Replace:

12 6 18

2 6 11

72 0 3