

## C++ Assignments | 2D Arrays - 1 | Week 6

Q1: Write a program to store 10 at every index of a 2D matrix with 5 rows and 5 columns.

Write a program to add two matrices and save the result in one of the given matrices.

Q3: Given a matrix 'A' of dimension n x m and 2 coordinates (I1, r1) and (I2, r2). Return the sum of the rectangle from (I1,r1) to (I2, r2).

Input 1:

4 5 14

8 10 9

12-34

00-42

1-123

-4 -5 -7 0

11 = 1, r1 = 2, 12 = 3, r2 = 3

Output 1: -4

Input 2:

12-34

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00-42
1-123
-4 -5 -7 0
11 = 1, r1 = 0, 12 = 0, r2 = 3
Output 1: 2
Q4: Write a C++ program to find the largest element of a given 2D array of integers.
Input 1:
1346
2457
3568
4679
Output 1: 9
Q5: Write a program to print the row number having the maximum sum in a given matrix.
Input 1:
1357
3478
1 4 12 3
Output 1: 2
Explanation: The 2nd row has the maximum sum i.e. 1+4+12+3=20
Q6: Write a function which accepts a 2D array of integers and its size as arguments and displays the
elements of middle row and the elements of middle column.
[Assuming the 2D Array to be a square matrix with odd dimensions i.e. 3x3, 5x5, 7x7 etc...]
Input 1:
12345
34567
76543
87654
123780
Output 1:
    3
   5
7 6 5 4 3
    6
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