

Rajalakshmi Engineering College

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2024_28_III_OOPS Using Java Lab

2028_REC_OOPS using Java_Week 3_Q4

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Sesha is developing a weather monitoring system for a region with multiple weather stations. Each weather station collects temperature data hourly and stores it in a 2D array.

Write a program that can add the temperature data from two different weather stations to create a combined temperature record for the region.

Input Format

The first line of input consists of two space-separated integers N and M, representing the number of rows and columns of the matrices, respectively.

The next N lines consist of M space-separated integers, representing the values of the first matrix.

The following N lines consist of M space-separated integers, representing the values of the second matrix.

Output Format

The output prints the addition of the two matrices in N rows and M columns, representing the combined temperature record.

Refer to the sample output for formatting specifications.

Sample Test Case

Input: 3 3

1 2 3

4 5 6

7 8 9

1 1 1

2 2 2

3 3 3

Output: 2 3 4

6 7 8

10 11 12

Answer

```
import java.util.*;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
  
        int n = sc.nextInt();  
        int m = sc.nextInt();
```

```
  
        int[][] mat1 = new int[n][m];  
        int[][] mat2 = new int[n][m];  
        int[][] result = new int[n][m];
```

```
  
        // First matrix  
        for (int i = 0; i < n; i++) {  
            for (int j = 0; j < m; j++) {  
                mat1[i][j] = sc.nextInt();
```

```
    }  
    }  
  
    // Second matrix  
    for (int i = 0; i < n; i++) {  
        for (int j = 0; j < m; j++) {  
            mat2[i][j] = sc.nextInt();  
        }  
    }  
  
    // Addition  
    for (int i = 0; i < n; i++) {  
        for (int j = 0; j < m; j++) {  
            result[i][j] = mat1[i][j] + mat2[i][j];  
            System.out.print(result[i][j] + " ");  
        }  
    }  
}
```

Status : Correct

Marks : 10/10