

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_BCSE102P_Lab 2_COD_Easy_2D Array

Attempt : 1

Total Mark : 20

Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

In a mathematics class, students are learning about matrices and their properties. The teacher has assigned a task to the students to calculate the sum of each row in a 3x3 matrix.

As a programmer, assist the students in calculating the sum by creating a program.

Answer

```
// You are using GCC
```

```
#include<stdio.h>
```

```
int main()
```

```

{
    int matrix[3][3];
    int row_sum;

    for(int i = 0; i<3; i++){
        for(int j = 0; j<3; j++){
            scanf("%d", &matrix[i][j]);
        }
    }
    for (int i = 0; i<3; i++){
        row_sum = 0;
        for (int j = 0; j<3; j++){
            row_sum += matrix[i][j];
        }
        printf("Sum of row %d: %d\n",i,row_sum);
    }
    return 0;
}

```

Status : Correct

Marks : 10/10

2. Problem Statement

Rajdeep is exploring matrices. He wants to write a program to display the lower triangular part of a square matrix. You have to assist him in creating the code.

Write a program that takes an integer N as input and a square matrix of size NxN. Implement the logic to display the lower triangular part of the matrix.

Answer

```

// You are using GCC
#include<stdio.h>
int main(){
    int n, int matrix[n][n]
    int result[n][n];
    for (int i = 0; i<n; i++)
    {

```

```

        for(int j = 0; j<n; j++){
            if (j>1){
                result[i][j] = 0;
            }
            else{
                result[n][n] = matrix[i][j];
            }
        }
    }
    for(int i = 0; i < n; i++){
        for(int j = 0; j<n; j++){
            printf("%d ",result[i][j]);
        }
        printf("\n");
    }
    return 0;
}
int main(){
    int n;
    scanf("%d",&n);

    int matrix[n][n]
    for(int i = 0; i<n;i++){
        for(int j = 0; j<n; j++){
            scanf("%d", &matrix[i][j]);
        }
    }
    for (int i = 0; i<n; i++){
        for (int j = 0; j<n; j++){
            printf("%d", matrix[i][j]);
        }
        printf("\n");
    }

    maint(n,matrix);

    return 0;
}

```

Status : Wrong

Marks : 0/10