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2020 ▼

C(gcc 6.3) ▼

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CodeChef was created as a platform

Code, Compile & Run

Id: x +

Contest Code/Name (e.g. JULY15/PRACTICE)

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)

Code gets autosaved every second



```
1 #include<stdio.h>
2 int main()
3 {
4     int i, j, rows, columns, a[10][10], Sum;
5     printf("Please Enter Number of rows and columns : ");
6     scanf("%d %d", &i, &j);
7     printf("Please Enter the Matrix Row and Column Elements \n");
8     for(rows = 0; rows < i; rows++)
9     {
10         for(columns = 0;
11            columns < j;
12            columns++)
13         {
14             scanf("%d", &a[rows][columns]);
15         }
16     }
17     for(rows = 0; rows < i; rows++)
18     {
19         Sum = 0;
20         for(columns = 0;
21            columns < j;
22            columns++)
23         {
24             Sum = Sum + a[rows][columns];
25         }
26         printf("The Sum of Elements of a Rows in a Matrix = %d \n", Sum);
27     }
28     return 0;
}
```

0.0



Open File

✓ Custom Input

Run

Custom Input

```
3 3
10 20 30
12 22 23
13 33 32
```

Status Successfully executed Date 2020-06-12 05:48:47 Time 0 sec Mem 9.424 kB



Input

```
3 3
10 20 30
12 22 23
13 33 32
```

Output

```
Please Enter Number of rows and columns : Please Enter the Matrix Row and Column Elements
The Sum of Elements of a Rows in a Matrix = 60
The Sum of Elements of a Rows in a Matrix = 57
The Sum of Elements of a Rows in a Matrix = 78
```

C Program to implement sum of each row and column in a matrix

Algorithm:

Step 1: Start

Step 2: Declare and initialize a two-dimensional array a.

Step 3: Calculate the number of rows & columns present in the array a and store it in Variables rows and column respectively.

Step 4: Maintain two Variables sumrow and sum to store the sum of elements in the specific row and the sum of elements in specific column respectively.

Step 5: To Calculate the sum of elements in each row:

- a) Two loops will be used to traverse the array where the outer loop selects a row, and the inner loop represents the columns present in the matrix a.
- b) Calculate the sum by adding elements present in a row.
- c) Display sum Row
- d) Repeat this for each row.

Step 6: To Calculate the sum of elements in each column.

- a) Two loops will be used to traverse the array where the outer loop select a column, and the inner loop represent the rows present in the matrix a.
- b) Calculate the sum by adding elements present in a column
- c) Display sum col.
- d) Repeat this for each column.

Flowchart:

