

CODECHEF
An Educational Initiative

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Code, Compile & Run

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Context Code/Name (e.g., PRACTICE)

Problem Code/Name (e.g., TEST)

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C (gcc 6.3)



Code gets auto-saved every second



```

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

```

0:0



Open File

✓ Custom Input

Run

Custom Input

```

2 2
5 8
2 0

```

Status Successfully executed Date 2020-06-17 15:11:24 Time 0 sec Mem 9,424 kB



Input

```

2 2
5 8
2 0

```

Output

```

Enter Number of rows and columns:2 2
Enter the Matrix Elements :
5 8
2 0
The Sum of Elements of a Rows in a Matrix = 13
The Sum of Elements of a Rows in a Matrix = 2
The Sum of Elements of a columns in a Matrix = 2

```

#14: C program to find sum of rows & column in matrix

Algorithm:

- Step 1: Start
- Step 2: Input m, n
- Step 3: Display enter the matrix
- ~~Step 4:~~ $\text{for}(i=0; i < m; i++)$
 $\text{for}(j=0; j < n; j++)$
 Input $a[i][j]$
- Step 4: $\text{for}(i=0; i < m; i++)$
 $rsum = 0$
 $\text{for}(j=0; j < n; j++)$
 $rsum = rsum + a[i][j]$
 Display sum of the i th row is
 output $rsum$
- Step 5: $\text{for}(j=0; j < m; j++)$
 $csum = 0$
 $\text{for}(i=0; i < n; i++)$
 $csum = csum + a[i][j]$
 Display sum of the j th column is
 output $csum$
- Step 6: Stop

Flowchart:



