7:09 PM

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Code, Compile & Run

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Contest Code(Name (e.g. JULY15/PRACTICE) | Problem Code(Name (e.g. TEST)

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C (gcc 6.3)

```
#include<stdio.h>
int main()
{
int rows,cols,a[20][20], sum_row,i,j,sum_col;
printf("Enter the Number of rows and columns:");
scanf("%d%d",&rows, &cols);
printf("Enter the elements of matrix\n ");
for(i=0;i<rows; i++)
for(j=0;j < cols;j++)
scanf("%d", &a[i][j]);
for(i=0;i<rows;i++)
{
    sum_row=0;
    for(j=0;j<cols;j++)
    sum_row=a[i][j]+sum_row;
    printf("row sum for row %d is: %d\n",i+1,sum_row);
}
for(i=0;j<cols;i++)
{
    sum_col=0;
    for(j=0;j<rows;j++)
    sum_col=a[j][i]+sum_col;
    printf("the column sum for column%d is:%d\n",i+1,sum_col);
}
return 0;
}
```

0:0

Open file | Custom Input | Run

Custom Input

```
2 2
5 8
2 0
```

States Successfully executed Date 2020-06-17 13:34:14 Time 0 sec Mem 9.424 kB

Input

```
2 2
5 8
2 0
```

Output

```
Enter the Nunber of rows and columns:Enter the elements of matrix
 row sum for row 1 is: 13
row sum for row 2 is: 2
```

C program to implement addition & substraction of matrix.

Algorithm:

Step 1: Start

Step 2: Input row, col

Step 3: Display enter the first matrix

```
for (i=0; i<row; i++)
for (j=0; j<col; j++)
  Input a[i][j]
```

Step 4: Display enter the second matrix

```
for (i=0; i<row; i++)
for (j=0; j<col; j++)
```

Step 5: Display addition of matrix

```
for (i=0; i<row; i++)
for (j=0; j<col; j++)
c[i][j] = a[i][j] + b[i][j]
```

Step 6:

```
for (i=0; i<row; i++)
for (j=0; j<col; j++)
  output c[i][j]
```

Step 7: Display substraction of matrix

```
for (i=0; i<row; i++)
for (j=0; j<col; j++)
d[i][j] = a[i][j] - b[i][j]
```

Step 8:

```
for (i=0; i<row; i++)
for (j=0; j<col; j++)
  output d[i][j]
```

Step 9: Stop.

Flowchart: