## Aim

Find sum of each row and column in 2D array.

## Algorithm

Traverse array row-wise for row sums, column-wise for column sums.

## C Code

```
#include <stdio.h>


int main(){
    int a[3][3]={{1,2,3},{4,5,6},{7,8,9}};
    int i,j;
    for(i=0;i<3;i++){
        int sum=0;
        for(j=0;j<3;j++) sum+=a[i][j];
        printf("Row %d sum = %d\n",i+1,sum);
    }
    for(j=0;j<3;j++){
        int sum=0;
        for(i=0;i<3;i++) sum+=a[i][j];
        printf("Col %d sum = %d\n",j+1,sum);
    }
    return 0;
}
```

## Input

Matrix:

```
1 2 3

4 5 6

7 8 9
```

## Output

```
Row 1 sum = 6

Row 2 sum = 15

Row 3 sum = 24

Col 1 sum = 12

Col 2 sum = 15

Col 3 sum = 18
```

## Result

Row and column sums correctly computed.