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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Problem Solving Through Programming In C (course)



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# Week 7 : Programming Assignment 2

Due on 2023-09-14, 23:59 IST

Write a C program to find the sum of all elements of each row of a matrix.

Example: For a matrix

4	5	6
6	7	3
1	2	3

The output will be

15
16
6

## Course outline

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

## Private Test cases used for evaluation

Test Case 1

Input	Expected Output	Actual Output	Status
3 2 4 4 5 5 6 6	8 10 12	8 10 12	Passed

**Week 6 ()****Week 7 ()**

○ Lecture 31 :  
Linear Search  
(unit?  
unit=69&lesso  
n=70)

○ Lecture 32 :  
Character  
Array and  
Strings (unit?  
unit=69&lesso  
n=71)

○ Lecture 33 :  
String  
Operations  
(unit?  
unit=69&lesso  
n=72)

○ Lecture 34 : 2-  
D Array  
Operation  
(unit?  
unit=69&lesso  
n=73)

○ Lecture 35 :  
Introducing  
Functions  
(unit?  
unit=69&lesso  
n=74)

○ Quiz: Week 7:  
Assignment 7  
(assessment?  
name=248)

● Week 7 :  
Programming  
Assignment 1  
(/noc23\_cs121  
/progassignm  
ent?  
name=249)

● **Week 7 :  
Programmin  
g Assignment  
2  
(/noc23\_cs12  
1/progassign**

Test Case 2

3  
4  
1  
-1  
2  
-2  
5  
-5  
7  
-7  
8  
-8  
6  
-6

0\n  
0\n  
0

0\n  
0\n  
0\n

Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

**Assignment submitted on 2023-09-02, 23:27 IST**

Your last recorded submission was :

```

1 #include <stdio.h>
2 int main()
3 {
4     int matrix[20][20];
5     int i,j,r,c;
6
7     scanf("%d",&r); //Accepts number of rows
8     scanf("%d",&c); //Accepts number of columns
9
10    for(i=0;i< r;i++) //Accepts the matrix elements from the test case data
11    {
12        for(j=0;j< c;j++)
13        {
14            scanf("%d",&matrix[i][j]);
15        }
16    }
17    /*Complete the code to print the sum of each rows. Use the printf() statement
18    printf("%d\n",sum); Where sum is the sum of a row.
19    */
20    for(i=0;i<r;i++)
21    {
22        int sum=0;
23        for(j=0;j<c;j++)
24        {
25            sum+=matrix[i][j];
26        }
27        printf("%d\n",sum);
28    }
29    return 0;
30 }
```

**ment?**  
**name=250)**

☒ Week 7 :  
Programming  
Assignment 3  
(/noc23\_cs121  
/progassignm  
ent?  
name=251)

☒ Week 7 :  
Programming  
Assignment 4  
(/noc23\_cs121  
/progassignm  
ent?  
name=252)

☐ Feedback  
Form of Week  
7 (unit?  
unit=69&lesso  
n=255)

☐ Assignment 7  
Solution (unit?  
unit=69&lesso  
n=76)

**Week 8 ()****Week 9 ()****Week 10 ()****DOWNLOAD  
VIDEOS ()****Books ()****Text  
Transcripts ()****Problem  
Solving  
Session -  
July 2023 ()**