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



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Course
outline

How does an
NPTEL
online
course
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 7 : Programming Assignment 3

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

Write a C program to find subtraction of two matrices i.e. matrix_A - matrix_B=matrix_C.

If the given matrix are

2 3 5 and 1 5 2 Then the output will be 1 -2 3
4 5 6 2 3 4 2 2 2
6 5 7 3 3 4 3 2 3

The elements of the output matrix are separated by one blank space

Your last recorded submission was on 2023-09-06, 13:55 IST

Select the Language for this assignment. C ▾

```
1 #include <stdio.h>
2 int main()
3 {
4     int matrix_A[20][20], matrix_B[20][20], matrix_C[20][20];
5     int i,j,row,col;
6     scanf("%d",&row); //Accepts number of rows
7     scanf("%d",&col); //Accepts number of columns
8
9     /* Elements of first matrix are accepted from test data */
10    for(i=0; i<row; i++)
11    {
12        for(j=0; j<col; j++)
13        {
14            scanf("%d", &matrix_A[i][j]);
15        }
16    }
17
18    /* Elements of second matrix are accepted from test data */
19
20    for(i=0; i<row; i++)
21    {
22        for(j=0; j<col; j++)
23        {
24            scanf("%d", &matrix_B[i][j]);
25        }
26    }
```

Week 6 ()**Week 7 ()****DOWNLOAD
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Solving
Session -
July 2023 ()**

```

27
28 /* Complete the program to get the desired output. Use printf() statement
29    printf("%d ", matrix_C[i][j]); You can declare your own variables if
30 */

31 for(i=0;i<row;i++)
32 {
33     for(j=0;j<col;j++)
34     {
35         matrix_C[i][j]=matrix_A[i][j]-matrix_B[i][j];
36         printf("%d ",matrix_C[i][j]);
37     }
38     printf("\n");
39 }
40 return 0;
41 }

```

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

Save as Draft**Compile & Run****Submit****Reset****Sample Test Cases****Input****Output**

Test Case 1

3
3
2
3
5
4
5
6
6
5
7
1
5
2
2
3
4
3
3
3
4

1 -2 3
2 2 2
3 2 3