Week-07 Program-03

Due on 2020-03-19, 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

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
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The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

```c
#include <stdio.h>
int main()
```

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Sample solutions (Provided by instructor)
```
#include <stdio.h>
int main()
```
```c
{  
    int matrix_A[20][20], matrix_B[20][20], matrix_C[20][20];
    int i,j, row, col;
    scanf("%d", &row); //Accepts number of rows
    scanf("%d", &col); //Accepts number of columns
    /* Elements of first matrix are accepted from test data */
    for(i=0; i<row; i++)
    {
        for(j=0; j<col; j++)
        {
            scanf("%d", &matrix_A[i][j]);
        }
    }
    /* Elements of second matrix are accepted from test data */
    for(i=0; i<row; i++)
    {
        for(j=0; j<col; j++)
        {
            scanf("%d", &matrix_B[i][j]);
        }
    }
    /* Complete the program to get the desired output. Use printf() statements */
    printf("%d ", matrix_C[i][j]); You can declare your own variables :)
    /* Subtract both matrices and store the result in matrix C */
    for(i=0; i<row; i++)
    {
        for(j=0; j<col; j++)
        {
            matrix_C[i][j] = matrix_A[i][j] - matrix_B[i][j];
        }
    }
    for(i=0; i<row; i++)
    {
        for(j=0; j<col; j++)
        {
            printf("%d ", matrix_C[i][j]);
        }
        printf("\n");
    }
    return 0;
}
```