

Question: Multiplication of Two Matrices in C

Write a C program to multiply two 3x3 matrices.

Your program should:

1. Create two 3x3 matrices.
2. Multiply the numbers in the same positions of both matrices.
3. Save the result in a third matrix.
4. Print the third matrix.

**Example Matrices of 3X3**

```
int A [3][3] = {
```

```
{1, 2, 3},
```

```
{4, 5, 6},
```

```
{7, 8, 9}
```

```
};
```

```
int B [3][3] = {
```

```
{9, 8, 7},
```

```
{6, 5, 4},
```

```
{3, 2, 1}
```

```
};
```

Course  
&  
Test Series

Self-Made Assignment - C Language

Addition and Multiplication of Two Matrices in C Language

Resultant matrix which is stored in matrix C is:

9	16	21
24	25	24
21	16	9

Output:

```
Matrix A (3x3):
1 2 3
4 5 6
7 8 9

Matrix B (3x3):
9 8 7
6 5 4
3 2 1

Resultant Matrix C after element-wise multiplication:
9 16 21
24 25 24
21 16 9
```

This is element-wise multiplication, where each element  
 $C[i][j] = A[i][j] * B[i][j]$ .

...many more

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