

```

1  #include <iostream>
2  #include <iomanip>
3  #include <cstring>
4
5  using namespace std;
6  const int rows_a = 2 ;
7  const int cols_a = 4 ;
8  const int rows_b = cols_a ;
9  const int cols_b = 2 ;
10 const int rows_c = rows_a ;
11 const int cols_c = cols_b ;
12
13 void mulm(int a[rows_a][cols_a] , int b[rows_b][cols_b] , int c[rows_c] [cols_c])
14 {
15     for (int i = 0 ; i<rows_a ; i++)
16     {
17         for (int j=0 ; j < cols_b ; j++)
18         {
19             int sum = 0 ;
20             for (int x = 0 ; x < cols_a ; x++ )
21             {
22                 sum+= a[i][x] * b[x][j] ;
23             }
24             c[i][j] = sum ;
25         }
26     }
27 }
28
29
30 int main()
31 {
32     int a[rows_a][cols_a] = { {1,2,3,4} , {4,5,6,7} } ;
33     int b[rows_b][cols_b] = {{1,2} , {4,5} , {1,2} , {4,5} } ;
34     int c[rows_c][cols_c] ;
35     mulm(a,b,c) ;
36     for (int i = 0 ; i <rows_c ; i++)
37     {
38         for (int j=0 ; j <cols_c ; j++)
39         {
40             cout << setw(4) << left << c[i][j] ;
41         }
42         cout << endl ;
43     }
44
45
46
47
48     return 0;
49 }
50

```