

```
// sample6_3_2.cpp : メイン プロジェクト ファイルです。
```

```
#include "stdafx.h"  
#include <iostream>
```

```
using namespace System;  
using namespace std;
```

```
void AddMat( double ** x, double ** y, double ** z, int m, int n ){  
    for (int i = 0; i < m; i++)  
        for (int j = 0; j < n; j++)  
            z[i][j] = x[i][j] + y[i][j];  
    return;  
}
```

```
void WriteMat( double ** x, int m, int n ){  
    for (int i = 0; i < m; i++){  
        for (int j = 0; j < n; j++)  
            cout << "\t" << x[i][j];  
        cout << endl;  
    }  
}
```

```
int main(array<System::String ^> ^args)  
{  
    double ** a, ** b, ** c;  
    a = new double*[2];  
    for (int i = 0; i < 2; i++)  
        a[i] = new double[2];  
    b = new double*[2];  
    for (int i = 0; i < 2; i++)  
        b[i] = new double[2];  
    a[0][0] = 1; a[0][1] = 2;  
    a[1][0] = 3; a[1][1] = 4;  
    b[0][0] = 10; b[0][1] = 20;  
    b[1][0] = 30; b[1][1] = 40;  
    c = new double*[2];  
    for (int i = 0; i < 2; i++)  
        c[i] = new double[2];  
    AddMat( a, b, c, 2, 2 );  
    cout << "a = " << endl;  
    WriteMat( a, 2, 2 );  
    cout << "b = " << endl;  
    WriteMat( b, 2, 2 );  
    cout << "c = " << endl;  
    WriteMat( c, 2, 2 );  
  
    Console::WriteLine();  
    Console::WriteLine("Enterキーを押して終了。");  
    Console::ReadLine();  
    return 0;  
}
```