

Q1: Write C++ program to read matrix A, and Matrix B.

Matrix C contain the sum of the element of matrix A and B.

Print Matrix C.

Example:

A

1	2	3	4	5
2	5	6	8	6
5	6	4	7	7
0	1	2	4	8

B

1	2	5	4	5
2	5	3	8	6
5	0	4	4	7
0	1	5	4	1

C

2	4	8	8	10
4	10	9	16	12
10	6	8	11	14
0	2	7	8	9

```
1 \\Q1
2 #include<iostream>
3 using namespace std;
4 \\was created by anas riyadh
5 int main()
6 {
7     int A[4][5]={
8         {1,2,3,4,5},
9         {2,5,6,8,6},
10        {5,6,4,7,7},
11        {0,1,2,4,8}
12    };
13    int B[4][5]={
14        {1,2,5,4,5},
15        {2,5,3,8,6},
16        {5,0,4,4,7},
17        {0,1,5,4,1}
18    };
19    int C[4][5]={};
20
21    cout<<"Matrix C is:"<<endl;
22    for(int i=0; i<=3; i++){
23        for(int j=0; j<=4; j++){
24            C[i][j] = A[i][j] + B[i][j];
25            cout<<C[i][j]<<" ";
26        }
27        cout<<endl;
28    }
29    return 0;
30 }
```

Compile Result

```
Matrix C is:
2 4 8 8 10
4 10 9 16 12
10 6 8 11 14
0 2 7 8 9
```

Q2: Write C++ program to read Matrix A, then print the diagonal line.

Example:

A

1	8	3	4	5
2	3	5	8	6
5	6	4	7	7
3	2	6	6	3
0	1	2	4	8

output

1				
	3			
		4		
			6	
				8

```
1 \\Q2
2 #include<iostream>
3 using namespace std;
4 \\was created by anas riyadh
5 int main()
6 {
7     int A[5][5]={
8         {1,8,3,4,5},
9         {2,3,5,8,6},
10        {5,6,4,7,7},
11        {3,2,6,6,3},
12        {0,1,2,4,8}
13    };
14
15    cout<<"Diagonal line is:"<<endl;
16    for(int i=0; i<=4; i++){
17        for(int s=1;s<=1+i;s++){
18            cout<<" ";
19        }
20        cout<<A[i][i]<<endl;
21    }
22
23    return 0;
24 }
```

Compile Result

Diagonal line is:

```
1
 3
 4
 6
 8
```