

```

1 // 8.7
2 #include <stdio.h>
3
4 #define MX 10
5
6 int main(void)
7 {
8     int n, A[MX][MX], B[MX][MX], C[MX][MX];
9     int row, col, i, k;
10
11     printf("Enter n: ");
12     scanf("%d", &n);
13
14     printf("Input matrix A\n");
15     for(i=0; i < n; ++i)
16         for(k=0; k < n; ++k)
17             scanf("%d", &A[i][k] );
18
19     printf("Input matrix B\n");
20     for(i=0; i < n; ++i)
21         for(k=0; k < n; ++k)
22             scanf("%d", &B[i][k] );
23
24     for(row=0; row < n; ++row){
25         for(col=0; col < n; ++col){
26             C[row][col] = 0;
27             for(k=0; k < n; ++k){
28                 C[row][col] += A[row][k] * B[k][col];
29             }
30         }
31     }
32
33     printf("The product matrix C\n");
34     for(i=0; i < n; ++i){
35         for(k=0; k < n; ++k)
36             printf("%d ", C[i][k] );
37         printf("\n");
38     }
39
40     return 0;
41 }
42

```