**Problem 6**: Multiply two 2d arrays and store the result in the 3<sup>rd</sup> one.

**Code**:

```c
#include <stdio.h>
int main() {
    int a[2][2], b[2][2], c[2][2], i, j, k;
    printf("Enter first 2x2 matrix:\n");
    for(i=0;i<2;i++)
        for(j=0;j<2;j++)
            scanf("%d",&a[i][j]);

    printf("Enter second 2x2 matrix:\n");
    for(i=0;i<2;i++)
        for(j=0;j<2;j++)
            scanf("%d",&b[i][j]);

    for(i=0;i<2;i++) {
        for(j=0;j<2;j++) {
            c[i][j]=0;
            for(k=0;k<2;k++)
                c[i][j]+=a[i][k]*b[k][j];
```

```c
        }
    }

    printf("Product:\n");
    for(i=0;i<2;i++){
        for(j=0;j<2;j++)
            printf("%d ",c[i][j]);
        printf("\n");
    }
    return 0;
}
```

**Output**:

Enter first 2x2 matrix:
12 15
67 58
Enter second 2x2 matrix:
35 89
23 67
Product:
765 2073
3679 9849