Multiplication of matrices

- Time limit: 1 second

- Memory limit: 50 MB

This program takes 3 input numbers, the first and second numbers are the number of rows and columns of the first matrix, and the second and third numbers are the number of rows and columns of the second matrix, respectively; Then it takes the value of each row of the matrix and prints the product of two matrices.
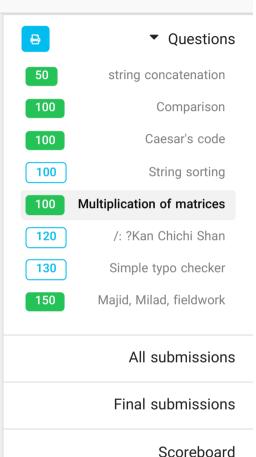
Input

In the first line of input, there are 3 numbers that indicate the number of rows and columns of 2 matrices.

Next is the input of the first matrix and then the second matrix.

All numbers given in the input are smaller than 100.

Output

In the output, print the matrices obtained by multiplying the matrix given in the input by 2.

Example

Sample input

```
2 3 2
1 2 3
4 5 6
1 2
3 4
5 6
```

Sample output

```
22  28
49  64
```

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