Coding Area

Unlocker

+ Problem Description

− Constraints

1 < M, N <= 300

0 <= Numbers in matrix < 100

1 <= Number of rotations <= 10^9

M%2=0 && N%2=0

− Input

First line contains two space separated integer M and N which denotes the number of rows and number of columns, respectively

Next M lines contain N space separated integers depicting the locked matrix

Last line contains L space separated integers, where L is the number of layers. Each number on this line denotes the number of rotations for every layer from 1 to L

− Output

Print unlocked matrix

− Time Limit

2

− Examples

Example 1

Input

2 2

1 2

3 4

2

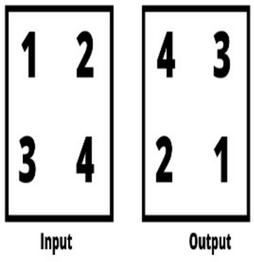
Output

4 3

2 1

Explanation:

There is only one layer. So, we have to rotate it in anti-clockwise direction with 2 rotations.



Example 2

Input

4 4

1 2 3 4

2 3 4 5

2 4 5 6

2 3 4 5

2 2

Output

3 4 5 6

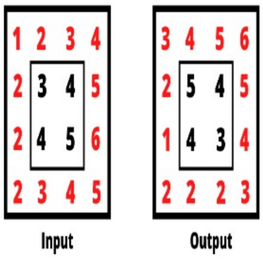
2 5 4 5

1 4 3 4

2 2 2 3

Explanation:

Here we have to rotate layer1 in anti-clockwise direction with 2 rotations, and layer2 clockwise with 2 rotations.



Upload Solution [Question : D]

☐ I, **abhijeet singh** confirm that the answer submitted is my own.

☐ Took help from online sources (attributions)

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