

05 Hr 58 Min 05 Sec

- Guidelines
- Coding Area
- Public Testcase Submissions
- Private Testcase Submissions
- Unevaluated Submissions
- Feedback Form

Graphs

Zone 1 Statistics

Coding Area

A

B

C

D

E

F

ONLINE EDITOR (D)

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.

12

34

Input

43

21

Output

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.

1 2 3 4

2 3 4 5

2 4 5 6

2 3 4 5

Input

3 4 5 6

2 5 4 5

1 4 3 4

2 2 2 3

Output

Upload Solution [Question : D]

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

☐ Took help from online sources (attributions)

Choose a File ...