

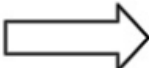
A digital image in a computer is represented by a pixels matrix. Each image processing operation in a computer may be observed as an operation on the image matrix. Suppose you are given an $N \times N$ 2D matrix A (in the form of a list) representing an image. Write a Python program to rotate this image by 90 degrees (clockwise) by rotating the matrix 90 degree clockwise. Write proper code to take input of N from the user and then to take input of an $N \times N$ matrix from the user. Rotate the matrix by 90 degree clockwise and then print the rotated matrix.

Note: You are not allowed to use an extra iterable like list, tuple, etc. to do this. You need to make changes in the given list A itself. Your program should be able to handle any $N \times N$ matrix from $N = 1$ to $N = 20$.

Examples:

Example 1:

1	2	3
4	5	6
7	8	9

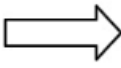


7	4	1
8	5	2
9	6	3

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Input: matrix = [[1,2,3],[4,5,6],[7,8,9]]  
Output: [[7,4,1],[8,5,2],[9,6,3]]
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Example 2:

5	1	9	11
2	4	8	10
13	3	6	7
15	14	12	16



15	13	2	5
14	3	4	1
12	6	8	9
16	7	10	11

```
Input: matrix = [[5,1,9,11],[2,4,8,10],[13,3,6,7],[15,14,12,16]]  
Output: [[15,13,2,5],[14,3,4,1],[12,6,8,9],[16,7,10,11]]
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