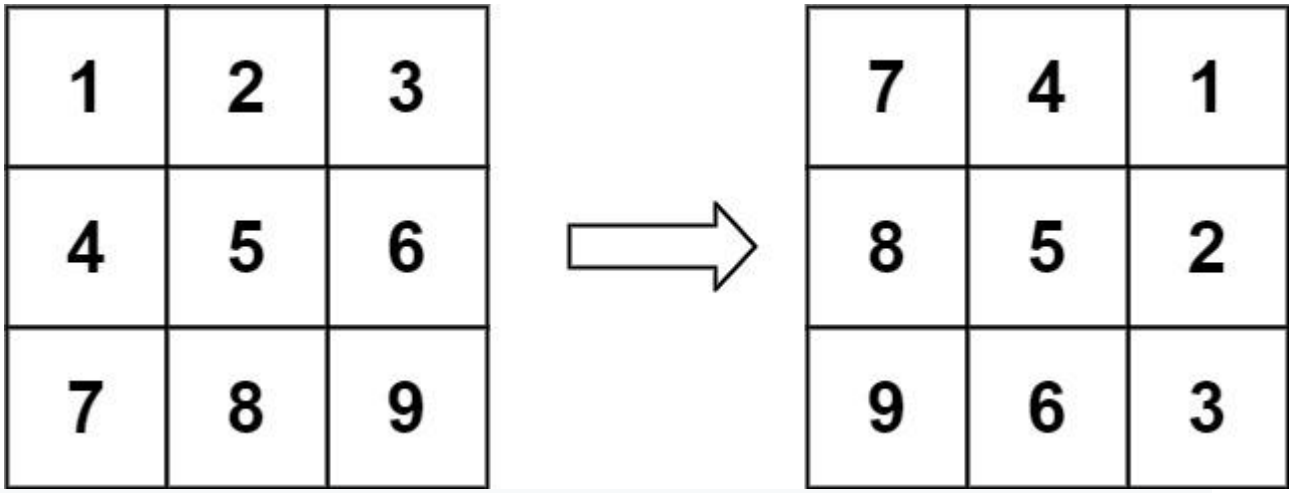
Leet Code

Day-34 Q-01: Rotate Image

You are given an *n* x *n* 2D `matrix` representing an image, rotate the image by 90 degrees (clockwise).

You have to rotate the image **in-place**, which means you have to modify the input 2D matrix directly. **DO NOT** allocate another 2D matrix and do the rotation.

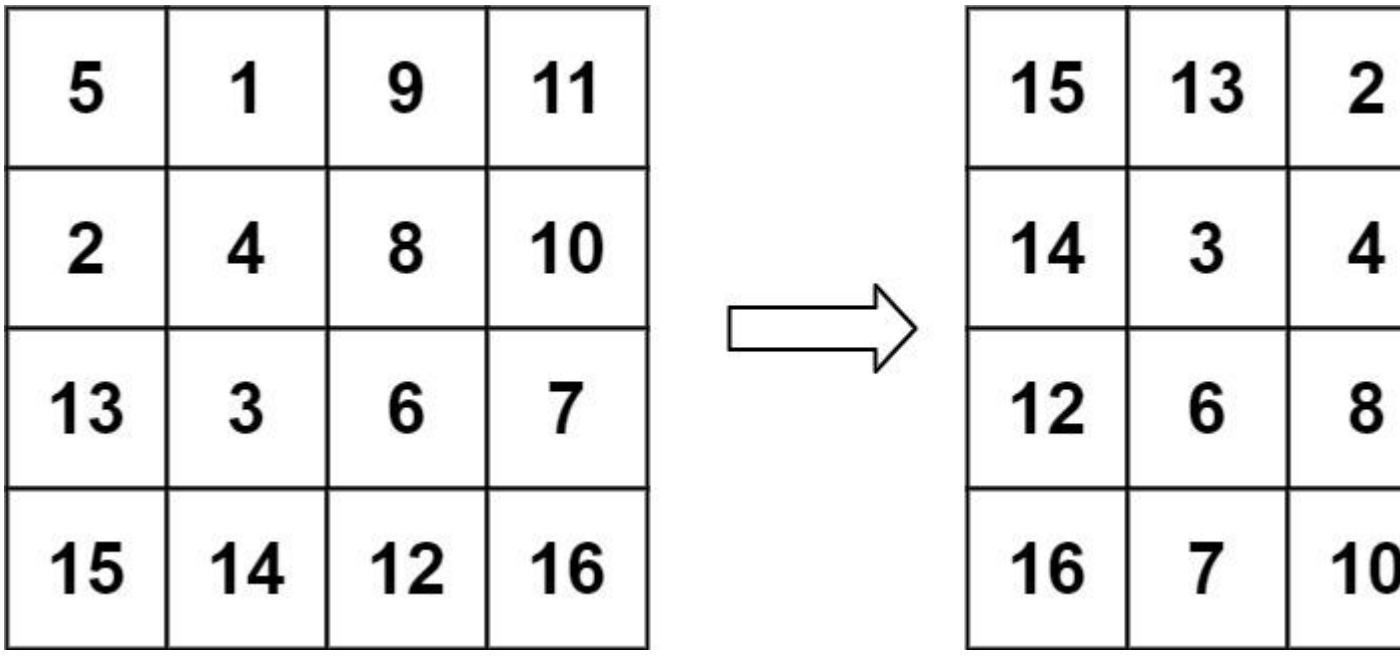
Example 1:




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

Output: [[7,4,1],[8,5,2],[9,6,3]]
```

Example 2:



```
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]]
```

Example 3:

```
Input: matrix = [[1]]

Output: [[1]]
```

Example 4:

```
Input: matrix = [[1,2],[3,4]]

Output: [[3,1],[4,2]]
```

Constraints:

- `matrix.length == n`
- `matrix[i].length == n`
- `1 <= n <= 20`
- `-1000 <= matrix[i][j] <= 1000`