









Description

△ Solution

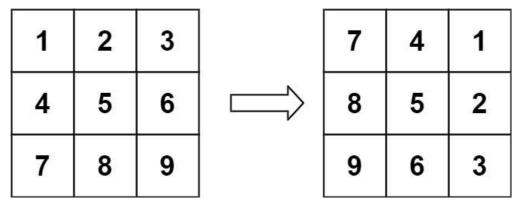
You are given an $n \times n$ 2D matrix representing an image, rotate the image by **90** degrees (clockwise).

□ Discuss (999+)

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.

Submissions

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:

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

```
i Java
                Autocomplete
                                                          i {} 5 ⊕ □
        class Solution {
  1
  2
             public void rotate(int[][] matrix) {
  3
                 int dimension = matrix.length;
  4
  5
                 //Step 1 :- Transpose the matrix
  6
  7 🔻
                 for(int i = 0; i < dimension; i++){</pre>
  8
                     for(int j = 0; j < i + 1; j++){
                         int temp = matrix[i][j];
  9
 10
                         matrix[i][j] = matrix[j][i];
 11
                          matrix[j][i] = temp;
 12
 13
                 }
 14
                 //Step 2 :- Reverse the rows
 15
                 for(int i = 0; i < dimension; i++){</pre>
 16 ▼
 17 ▼
                     for(int j = 0; j < dimension / 2; j++){
 18
                         int temp = matrix[i][j];
 19
                         matrix[i][j] = matrix[i][dimension - j - 1];
                          matrix[i][dimension - j - 1] = temp;
 20
 21
 22
 23
 24
Testcase Run Code Result Debugger
 Accepted Runtime: 0 ms
                                                                           ?
             [[1,2,3],[4,5,6],[7,8,9]]
 Your input
             [[7,4,1],[8,5,2],[9,6,3]]
                                                                         Diff
 Output
 Expected
              [[7,4,1],[8,5,2],[9,6,3]]
```

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Submit