

Rotate Image

Question: You are given an $n \times n$ 2D matrix representing an image.

Rotate the image by 90 degrees (clockwise).

Solutions:

```
class Solution:
```

```
    # @param matrix, a list of lists of integers
```

```
    # @return a list of lists of integers
```

```
    def rotate(self, matrix):
```

```
        n = len(matrix)
```

```
        for i in range(n):
```

```
            for j in range(i+1, n):
```

```
                matrix[i][j], matrix[j][i] = matrix[j][i], matrix[i][j]
```

```
        for i in range(n):
```

```
            matrix[i].reverse()
```

```
        return matrix
```

```
Solution().rotate([[1,2,3],
```

```
                    [4,5,6],
```

```
                    [7,8,9]])
```