48 Rotate Image

optimal

```python
def rotate(self, matrix):
    n = len(matrix)
    # transposing the matrix
    for i in range(n):
        for j in range(i):
            matrix[i][j], matrix[j][i] = matrix[j][i], matrix[i][j]
    # reversing each row of the matrix
    for i in range(n):
        matrix[i].reverse()
```

Brute force

```python
        # ind=0
        # res=[]
        # n=len(matrix)
        # for i in range(len(matrix)):
        #     for j in range(len(matrix)-1,-1,-1):
        #         res.append(matrix[j][ind])
        #     ind+=1
        # a=0
        # for i in range(n):
        #     for j in range(n):
        #         matrix[i][j]=res[a]
        #         a+=1

        # print(res)
```