class Solution {

public void rotate(int[][] matrix) {

transpose(matrix);

reflect(matrix);

}

public void transpose(int[][] matrix) {

int n = matrix.length;

for (int i = 0; i < n; i++) {

for (int j = i; j < n; j++) {

int tmp = matrix[j][i];

matrix[j][i] = matrix[i][j];

matrix[i][j] = tmp;

}

}

}

public void reflect(int[][] matrix) {

int n = matrix.length;

for (int i = 0; i < n; i++) {

for (int j = 0; j < n / 2; j++) {

int tmp = matrix[i][j];

matrix[i][j] = matrix[i][n - j - 1];

matrix[i][n - j - 1] = tmp;

}

}

}

}