```
void diag_reverse_matrix(int** matrix, int matrixSize, int* matrixColSize)
    int row;
   int column;
int tmp;
   column = 0;
    while(column < matrixColSize[0])</pre>
        row = matrixSize - 1;
         while (row >= 0)
             if(row > column)
                 tmp = matrix[row][column];
                 matrix[row][column] = matrix[column][row];
matrix[column][row] = tmp;
             }
             row--;
        column++;
}
void col_reverse_matrix(int** matrix, int matrixSize, int* matrixColSize)
    int left;
   int right;
int* tmp;
   left = 0;
   right = matrixColSize[0]-1;
    while(left < right)</pre>
        tmp = matrix[left];
        matrix[left] = matrix[right];
matrix[right] = tmp;
        right--;
}
void rotate(int** matrix, int matrixSize, int* matrixColSize) {
   col_reverse_matrix(matrix, matrixSize, matrixColSize);
    diag_reverse_matrix(matrix, matrixSize, matrixColSize);
```