class Solution {

public static int[][] flipAndInvertImage(int[][] arr) {

int C = arr[0].length;

for (int[] row: arr) {

for (int i = 0; i < (C + 1) / 2; ++i) {

int tmp = row[i] ^ 1;

row[i] = row[C - 1 - i] ^ 1;

row[C - 1 - i] = tmp;

}

}

return arr;

}

public static void print(int[][] arr) {

for(int i=0; i < arr.length; i++) {

for (int j=0; j < arr[i].length; j++) {

System.out.print(arr[i][j] + " ");

}

System.out.println();

}

}

public static void main(String[] args) {

int[][] arr = {{1, 0, 1}, {1, 1, 1}, {0, 1, 1}};

print(flipAndInvertImage(arr));

System.out.println();

int[][]arr2 = {{1,1,0,0},{1,0,0,1},{0,1,1,1},{1,0,1,0}};

print(flipAndInvertImage(arr2));

}

}

