





Explanation of the first case: For each point in the matrix either you start in map A or B, traversing in diagonals will always be better, the output should be zero (0).

Note: if Deisy find herself with equal distance between the diagonal and the "normal" steps of the robot, she will choose the "normal" steps as the best, in this case, the output should be 1 (normal is better).

**CONSTRAINTS:**

$$2 \leq N \leq 1000$$