Mr Sudhakar is given a checkerboard of size 400\*400, where the indices starts

from (-200,-200) and ends at (199,199). In one step, he can move the box from

position (p,q) to one of the following positions in L shape like as follows:

- (p-2, q-1), (p-2, q+1), (p+2, q-1), (p+2, q+1)

- (p-1, q+2), (p+1, q+2), (p-1, q-2), (p+1, q-2)

Initially the box is at (0,0) position, and need to move the box to position (m,n).

You will be given two integers m and n indicates the position(m,n).

Now your task is to help by Mr Sudhakar to find the minimum number of steps

required to move the box from (0,0) to (m,n).

Note: It is allowed to move out of the board also.

Please do refer the image in the hint for better understanding.

Input Format:

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Two space separated integers, m and n, position.

Output Format:

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Print an integer, minimum number of steps to reach (m,n).

Sample Input-1:

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2 4

Sample Output-1:

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2

Explanation:

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Initially, you are at (0,0) position, you can reach (2,4) as follows:

(0,0) -> (1, 2) -> (2, 4)

Sample Input-2:

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4 7

Sample Output-2:

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5

Explanation:

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Initially, you are at (0,0) position, you can reach (4,7) as follows:

(0,0) -> (1, 2) -> (2, 4) -> (1, 6) -> (3, 5) -> (4, 7)

