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/ Min Steps In Infinite Grid



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Min Steps in Infinite Grid

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You are in an infinite 2D grid where you can move in any of the 8 directions :

```
(x,y) to
(x+1, y),
(x - 1, y),
(x, y+1),
(x, y-1),
(x-1, y-1),
(x+1,y+1),
(x-1,y+1),
(x+1,y-1)
```

You are given a sequence of points and **the order in which you need to cover the points**. Give the minimum number of steps in which you can achieve it. You start from the first point.

Input :

Given two integer arrays A and B, where A[i] is x coordinate and B[i]

Output :

Return an Integer, i.e minimum number of steps.

Example :

Input : [(0, 0), (1, 1), (1, 2)]
Output : 2

It takes 1 step to move from (0, 0) to (1, 1). It takes one more step to move from (1, 1) to (1, 2).