

# 1266. Minimum Time Visiting All Points

Solved ●

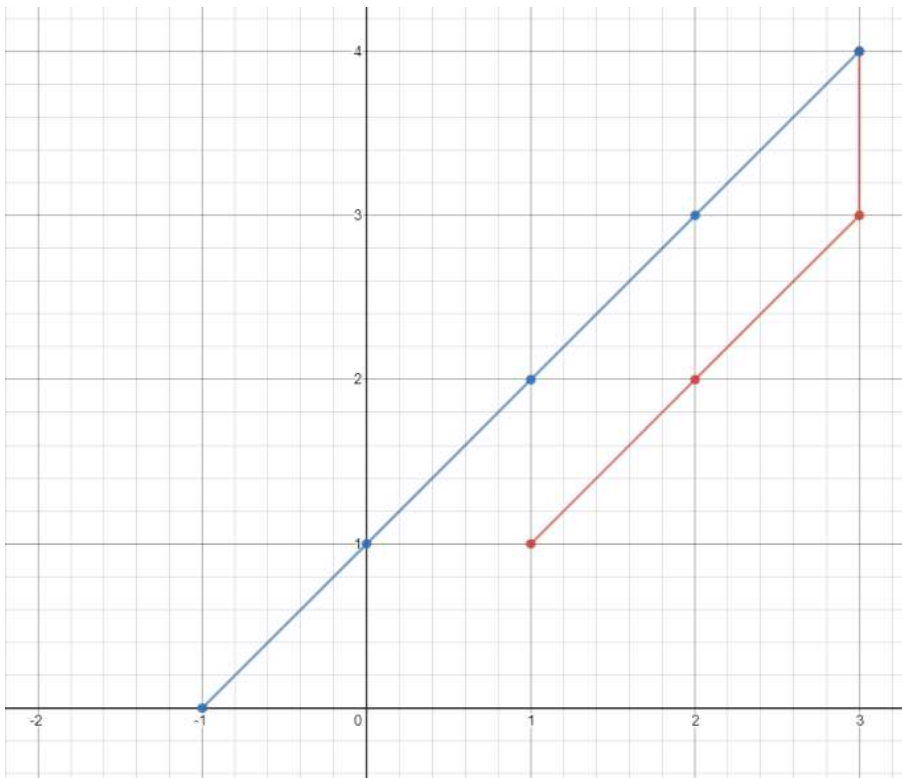
Easy Topics Companies Hint

On a 2D plane, there are  $n$  points with integer coordinates  $\text{points}[i] = [x_i, y_i]$ . Return the **minimum time** in seconds to visit all the points in the order given by `points`.

You can move according to these rules:

- In 1 second, you can either:
  - move vertically by one unit,
  - move horizontally by one unit, or
  - move diagonally  $\sqrt{2}$  units (in other words, move one unit vertically then one unit horizontally in 1 second).
- You have to visit the points in the same order as they appear in the array.
- You are allowed to pass through points that appear later in the order, but these do not count as visits.

## Example 1:



**Input:** `points = [[1,1],[3,4],[-1,0]]`

**Output:** 7

**Explanation:** One optimal path is `[1,1] -> [2,2] -> [3,3] -> [3,4] -> [2,3] -> [1,2] -> [0,1] -> [-1,0]`

Time from `[1,1]` to `[3,4]` = 3 seconds

Time from `[3,4]` to `[-1,0]` = 4 seconds

Total time = 7 seconds

## Example 2:

**Input:** `points = [[3,2],[-2,2]]`

**Output:** 5

## Constraints:

- `points.length == n`
- `1 <= n <= 100`
- `points[i].length == 2`
- `-1000 <= points[i][0], points[i][1] <= 1000`

Seen this question in a real interview before? 1/4

Yes No

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