1266. Minimum Time Visiting All Points

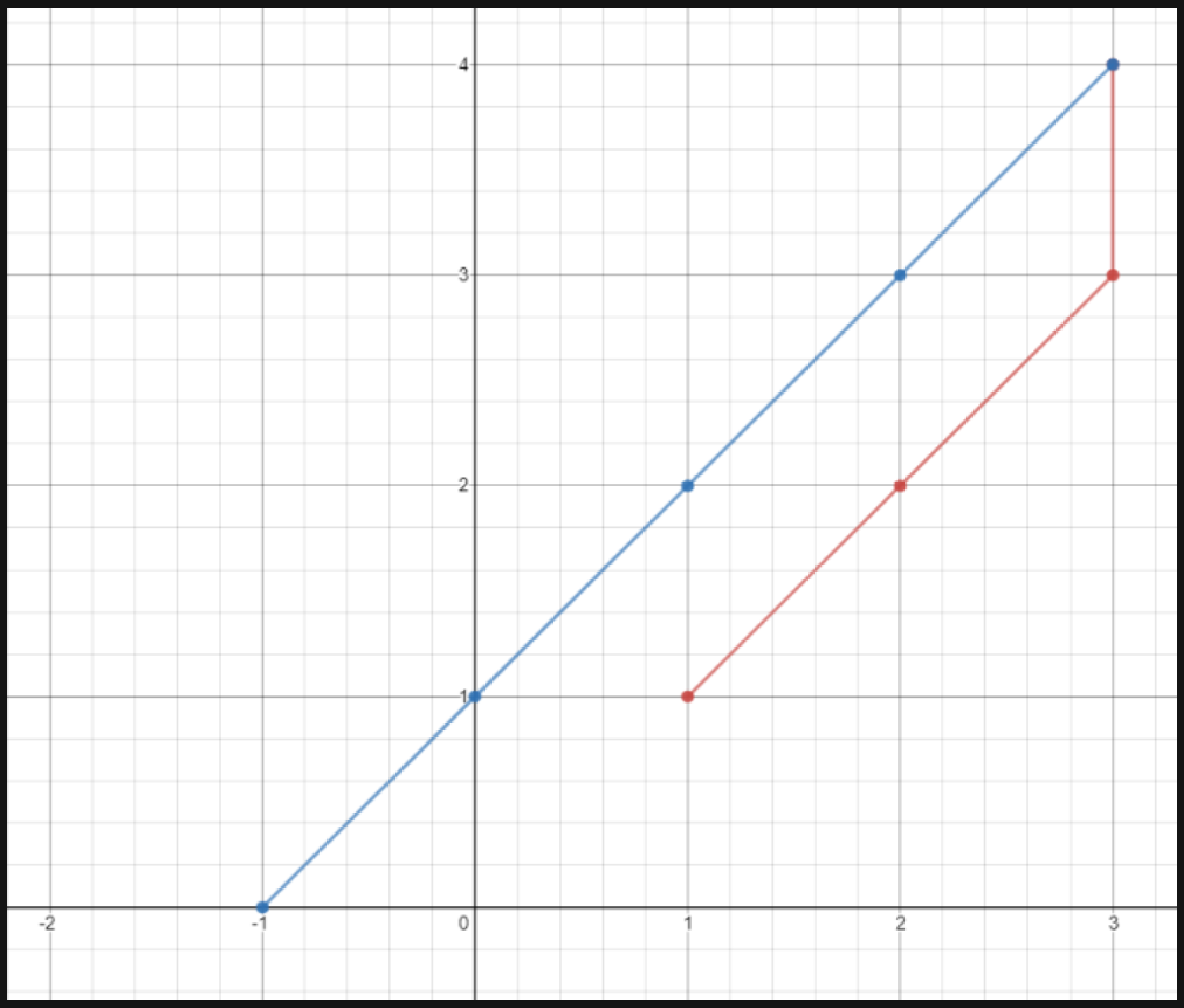
Description

On a 2D plane, there are `n` points with integer coordinates `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`