356. Line Reflection Premium

Solved ●

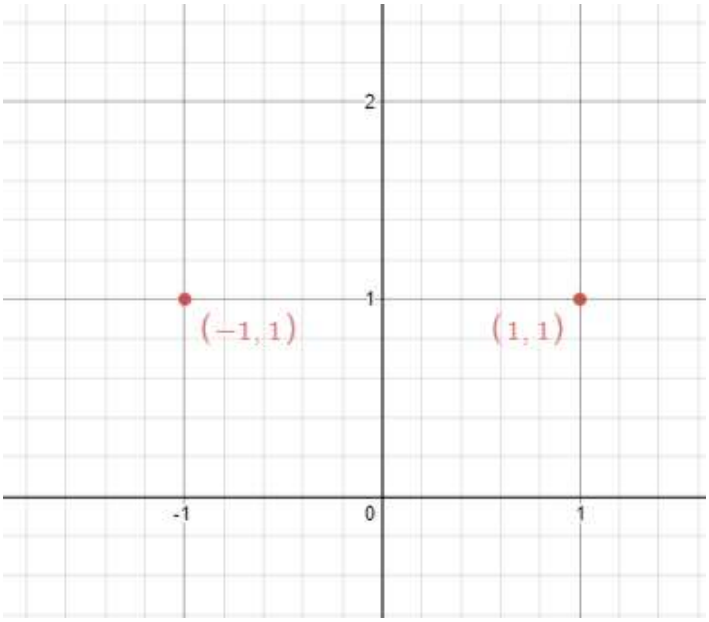
Medium Topics Companies Hint

Given n points on a 2D plane, find if there is such a line parallel to the y-axis that reflects the given points symmetrically.

In other words, answer whether or not if there exists a line that after reflecting all points over the given line, the original points' set is the same as the reflected ones.

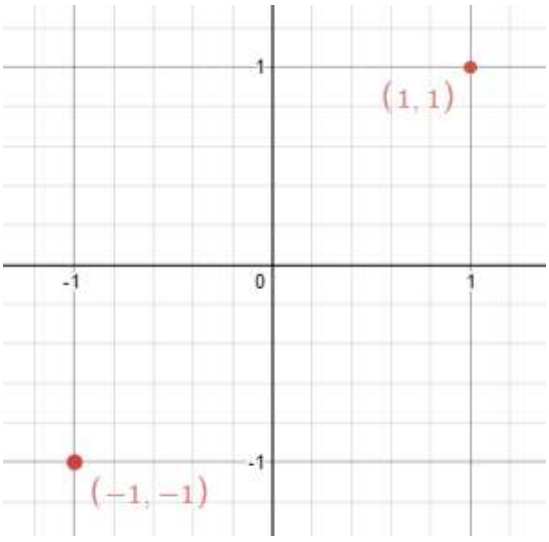
Note that there can be repeated points.

Example 1:



> **Input:** points = [[1,1],[-1,1]]
> **Output:** true
> **Explanation:** We can choose the line x = 0.

Example 2:



> **Input:** points = [[1,1],[-1,-1]]
> **Output:** false
> **Explanation:** We can't choose a line.

Constraints:

- $n == points.length$
- $1 <= n <= 10^4$
- $-10^8 <= points[i][j] <= 10^8$

Follow up: Could you do better than $O(n^2)$?

Seen this question in a real interview before? 1/5

Yes No

Accepted **41.1K** Submissions **115.3K** Acceptance Rate **35.6%**

Topics

Companies

Hint 1

Hint 2

Hint 3

Similar Questions

Discussion (8)