1637. Widest Vertical Area Between Two Points Containing No Points

Solved ●

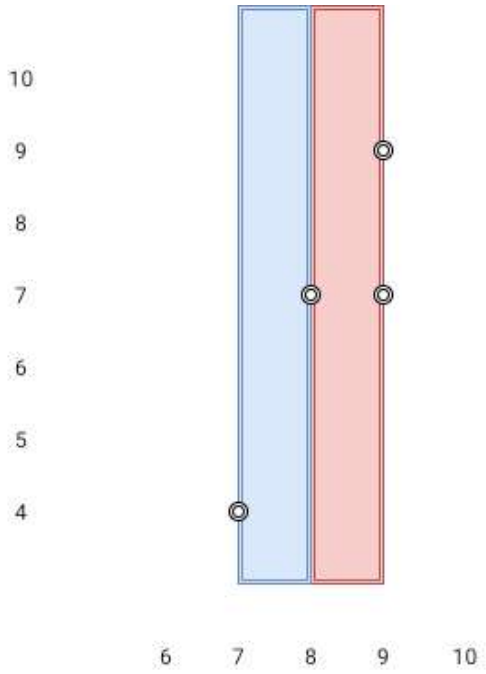
Medium Topics Companies Hint

Given `n` `points` on a 2D plane where `points[i] = [$x_i$, $y_i$]`, Return *the **widest vertical area** between two points such that no points are inside the area.*

A **vertical area** is an area of fixed-width extending infinitely along the y-axis (i.e., infinite height). The **widest vertical area** is the one with the maximum width.

Note that points **on the edge** of a vertical area **are not** considered included in the area.

Example 1:



> **Input:** points = [[8,7],[9,9],[7,4],[9,7]]
> **Output:** 1
> **Explanation:** Both the red and the blue area are optimal.

Example 2:

> **Input:** points = [[3,1],[9,0],[1,0],[1,4],[5,3],[8,8]]
> **Output:** 3

Constraints:

- `n == points.length`
- `2 <= n <= $10^5$`
- `points[i].length == 2`
- `0 <= $x_i$, $y_i$ <= $10^9$`

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

Yes No

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Topics

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Hint 1

Hint 2

Discussion (172)