

5540. Widest Vertical Area Between Two Points Containing No Points

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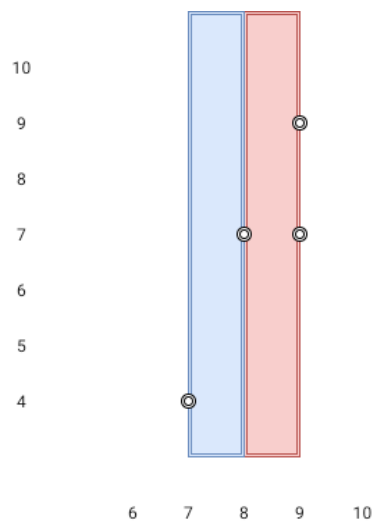
Given n points on a 2D plane where $points[i] = [x_i, y_i]$, Return the **widest vertical area** between two points such that no points are inside the area.

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.

User Accepted:	1106
User Tried:	1163
Total Accepted:	1113
Total Submissions:	1208
Difficulty:	Medium

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:

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

Java

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```
1 class Solution {
2     public int maxWidthOfVerticalArea(int[][] points) {
3
4     }
5 }
```