

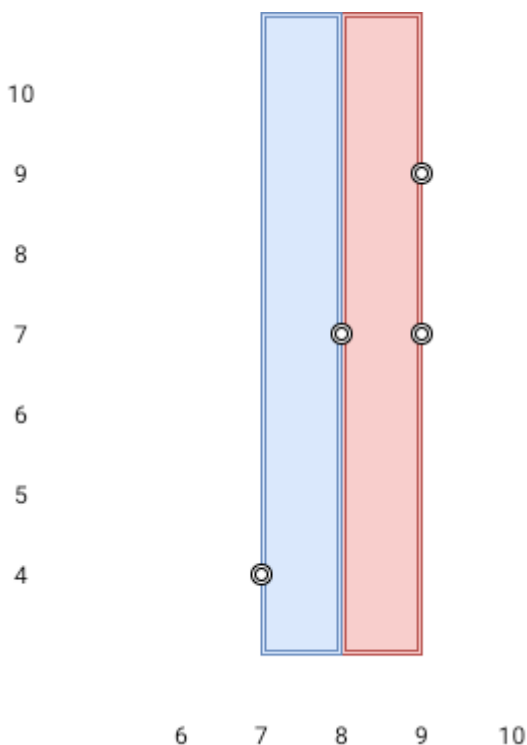
1637. Widest Vertical Area Between Two Points Containing No Points

Given n `points` on a 2D plane where `points[i] = [xi, yi]`, 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

```
def maxWidthOfVerticalArea(self, points: List[List[int]]) -> int:
    points.sort()
```

```
ans = 0
for i in range(1, len(points)):
    ans = max(ans, points[i][0] - points[i-1][0])
return ans
```