Problem 939: Minimum Area Rectangle

Problem Information

Difficulty: Medium
Acceptance Rate: 55.20%
Paid Only: No
Tags: Array, Hash Table, Math, Geometry, Sorting

Problem Description

You are given an array of points in the **X-Y** plane `points` where `points[i] = [xi, yi]`.

Return _the minimum area of a rectangle formed from these points, with sides parallel to the X and Y axes_. If there is not any such rectangle, return `0`.

Example 1:

Input: points = [[1,1],[1,3],[3,1],[3,3],[2,2]] **Output:** 4

Example 2:

Input: points = [[1,1],[1,3],[3,1],[3,3],[4,1],[4,3]] **Output:** 2

Constraints:

* `1 <= points.length <= 500` * `points[i].length == 2` * `0 <= xi, yi <= 4 * 104` * All the given points are **unique**.

Code Snippets

C++:

```cpp
class Solution {
public:
    int minAreaRect(vector<vector<int>>& points) {


    }
};
```

Java:

```java
class Solution {
public int minAreaRect(int[][] points) {


}
}
```

Python3:

```python
class Solution:
    def minAreaRect(self, points: List[List[int]]) -> int:
```