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Description

Solution

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⌕

1584. Min Cost to Connect All Points

Medium

2311

70

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You are given an array `points` representing integer coordinates of some points on a 2D-plane, where `points[i] = [xi, yi]`.

The cost of connecting two points `[xi, yi]` and `[xj, yj]` is the **manhattan distance** between them: `|xi - xj| + |yi - yj|`, where `|val|` denotes the absolute value of `val`.

Return *the minimum cost to make all points connected*. All points are connected if there is **exactly one** simple path between any two points.

Example 1:



Input: `points = [[0,0],[2,2],[3,10],[5,2],[7,0]]`

Output: 20

Explanation:



We can connect the points as shown above to get the minimum cost of 20. Notice that there is a unique path between every pair of points.

Example 2:

Input: `points = [[3,12],[-2,5],[-4,1]]`

Output: 18

Constraints:

- `1 <= points.length <= 1000`
- `-106 <= xi, yi <= 106`
- All pairs `(xi, yi)` are distinct.

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```
class Solution {
    public int minCostConnectPoints(int[][] points) {
    }
}
```

⌵ Problems

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1584/2254

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Console

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