1584. Min Cost to Connect All Points

Medium Topics Companies Hint

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

The cost of connecting two points $[x_i, y_i]$ and $[x_j, y_j]$ is the **manhattan distance** between them: $|x_i - x_j| + |y_i - y_j|$, where $|v_i| + |v_j| +$

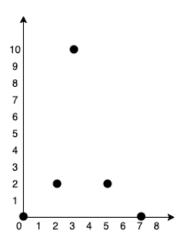
(i)

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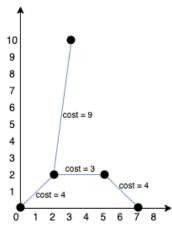
Return the minimum cost to make all points connected. All points are connected if there is exactly one simple path between any two points.

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
- \bullet -10⁶ <= x_i , y_i <= 10⁶
- All pairs (x_i, y_i) are distinct.

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

Yes No

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