# 5513. Min Cost to Connect All Points

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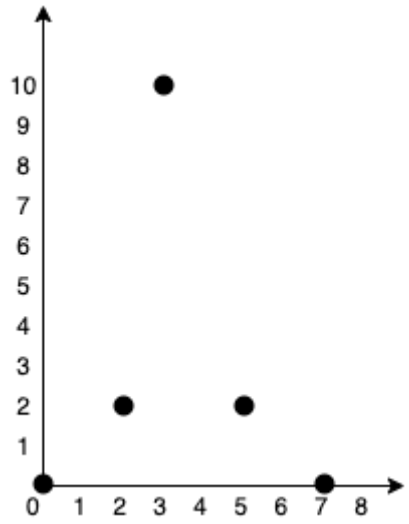
You are given an array `points` representing integer coordinates of some points on a 2D-plane, where `points[i] = [x_i, y_i]`.

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 `|val|` denotes the absolute value of `val`.

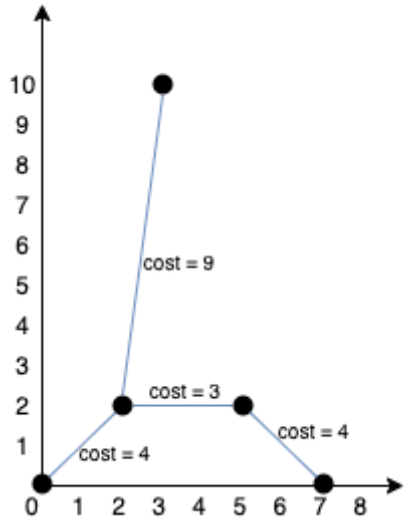
Return *the minimum cost to make all points connected.* All points are connected if there is **exactly one** simple path between any two points.

| | |
|---|---|
| **User Accepted:** | 0 |
| **User Tried:** | 0 |
| **Total Accepted:** | 0 |
| **Total Submissions:** | 0 |
| **Difficulty:** | Medium |

**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

**Example 3:**

**Input:** points = [[0,0],[1,1],[1,0],[-1,1]]
**Output:** 4

**Example 4:**

**Input:** points = [[-1000000,-1000000],[1000000,1000000]]
**Output:** 4000000

**Example 5:**

**Input:** points = [[0,0]]
**Output:** 0

**Constraints:**

- 1 <= points.length <= 1000
- $-10^6$ <= $x_i$, $y_i$ <= $10^6$
- All pairs ($x_i$, $y_i$) are distinct.

JavaScript

```
/**
 * @param {number[][]} points
 * @return {number}
 */
var minCostConnectPoints = function(points) {

};
```

Custom Testcase Use Example Testcases

Run Submit