3143. Maximum Points Inside the Square

Solved ●

Medium Hint

You are given a 2D array `points` and a string `s` where, `points[i]` represents the coordinates of point `i`, and `s[i]` represents the **tag** of point `i`.

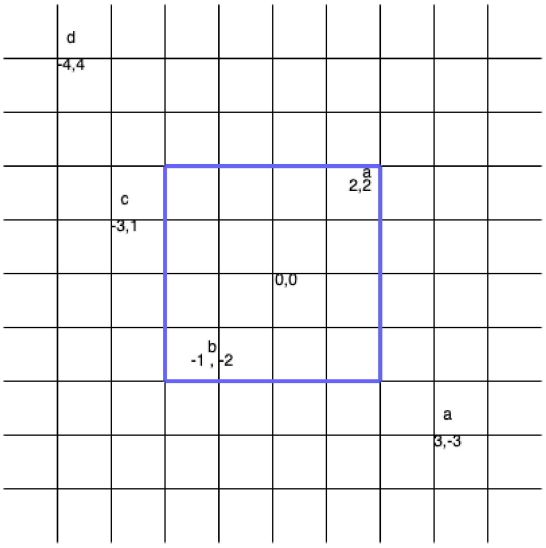
A **valid** square is a square centered at the origin `(0, 0)`, has edges parallel to the axes, and **does not** contain two points with the same tag.

Return the **maximum** number of points contained in a **valid** square.

Note:

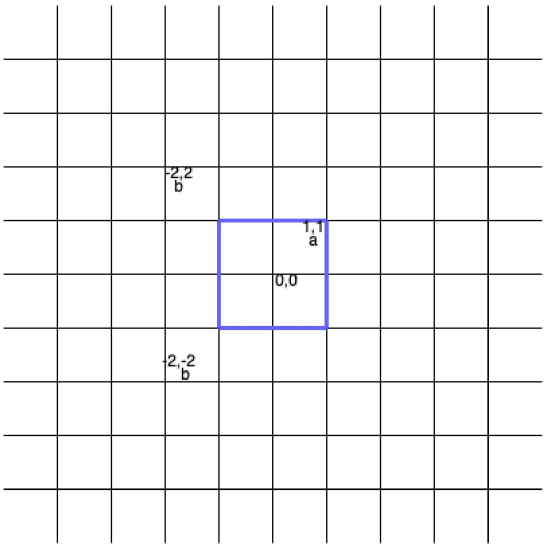
- A point is considered to be inside the square if it lies on or within the square's boundaries.
- The side length of the square can be zero.

Example 1:



> **Input:** points = [[2,2],[-1,-2],[-4,4],[-3,1],[3,-3]], s = "abdca"
>
> **Output:** 2
>
> **Explanation:**
>
> The square of side length 4 covers two points `points[0]` and `points[1]`.

Example 2:



> **Input:** points = [[1,1],[-2,-2],[-2,2]], s = "abb"
>
> **Output:** 1
>
> **Explanation:**
>
> The square of side length 2 covers one point, which is `points[0]`.

Example 3:

> **Input:** points = [[1,1],[-1,-1],[2,-2]], s = "ccd"
>
> **Output:** 0
>
> **Explanation:**
>
> It's impossible to make any valid squares centered at the origin such that it covers only one point among `points[0]` and `points[1]`.

Constraints:

- `1 <= s.length, points.length <= 10^5`
- `points[i].length == 2`
- `-10^9 <= points[i][0], points[i][1] <= 10^9`
- `s.length == points.length`
- `points` consists of distinct coordinates.
- `s` consists only of lowercase English letters.

Seen this question in a real interview before? 1/5

Yes No

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Hint 1

Hint 2

Discussion (19)