

1828. Queries on Number of Points Inside a Circle

Solved ●

Medium Topics Companies Hint

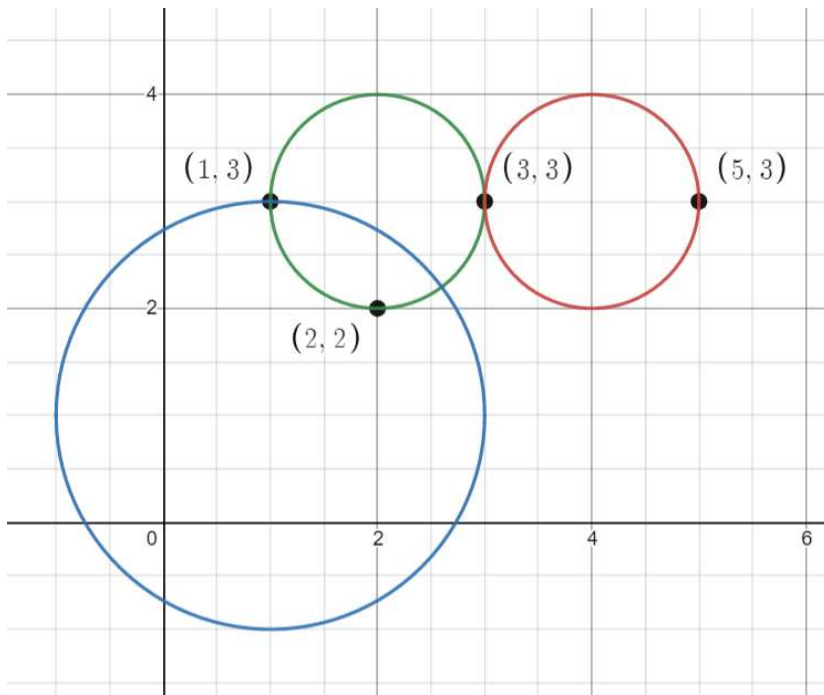
You are given an array `points` where `points[i] = [xi, yi]` is the coordinates of the i^{th} point on a 2D plane. Multiple points can have the **same** coordinates.

You are also given an array `queries` where `queries[j] = [xj, yj, rj]` describes a circle centered at (x_j, y_j) with a radius of r_j .

For each query `queries[j]`, compute the number of points **inside** the j^{th} circle. Points **on the border** of the circle are considered **inside**.

Return an array `answer`, where `answer[j]` is the answer to the j^{th} query.

Example 1:



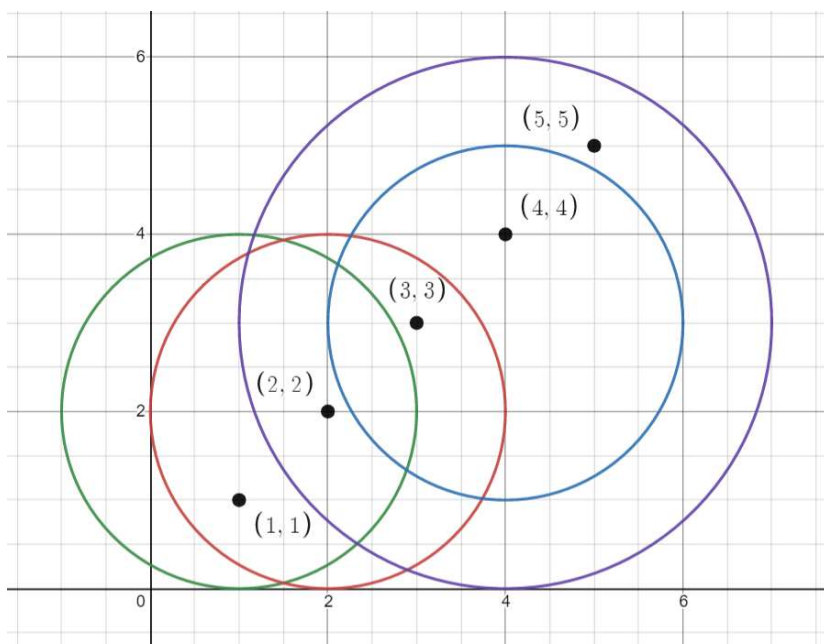
Input: `points = [[1,3],[3,3],[5,3],[2,2]]`, `queries = [[2,3,1],[4,3,1],[1,1,2]]`

Output: `[3,2,2]`

Explanation: The points and circles are shown above.

`queries[0]` is the green circle, `queries[1]` is the red circle, and `queries[2]` is the blue circle.

Example 2:



Input: points = [[1,1],[2,2],[3,3],[4,4],[5,5]], queries = [[1,2,2],[2,2,2],[4,3,2],[4,3,3]]
Output: [2,3,2,4]
Explanation: The points and circles are shown above.
queries[0] is green, queries[1] is red, queries[2] is blue, and queries[3] is purple.

Constraints:

- `1 <= points.length <= 500`
- `points[i].length == 2`
- `0 <= xi, yi <= 500`
- `1 <= queries.length <= 500`
- `queries[j].length == 3`
- `0 <= xj, yj <= 500`
- `1 <= rj <= 500`
- All coordinates are integers.

Follow up: Could you find the answer for each query in better complexity than `O(n)`?

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

Yes No

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