1828. Queries on Number of Points Inside a Circle

Description

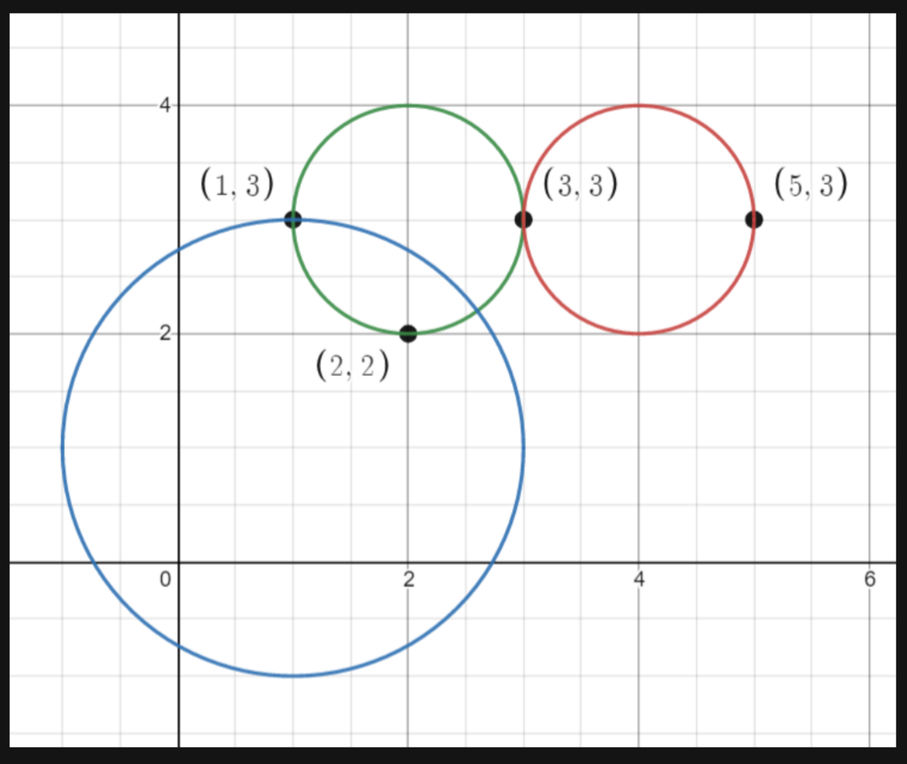
You are given an array `points` where `points[i] = [x_i, y_i]` is the coordinates of the `i th` point on a 2D plane. Multiple points can have the **same** coordinates.

You are also given an array `queries` where `queries[j] = [x_j, y_j, r_j]` 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**.

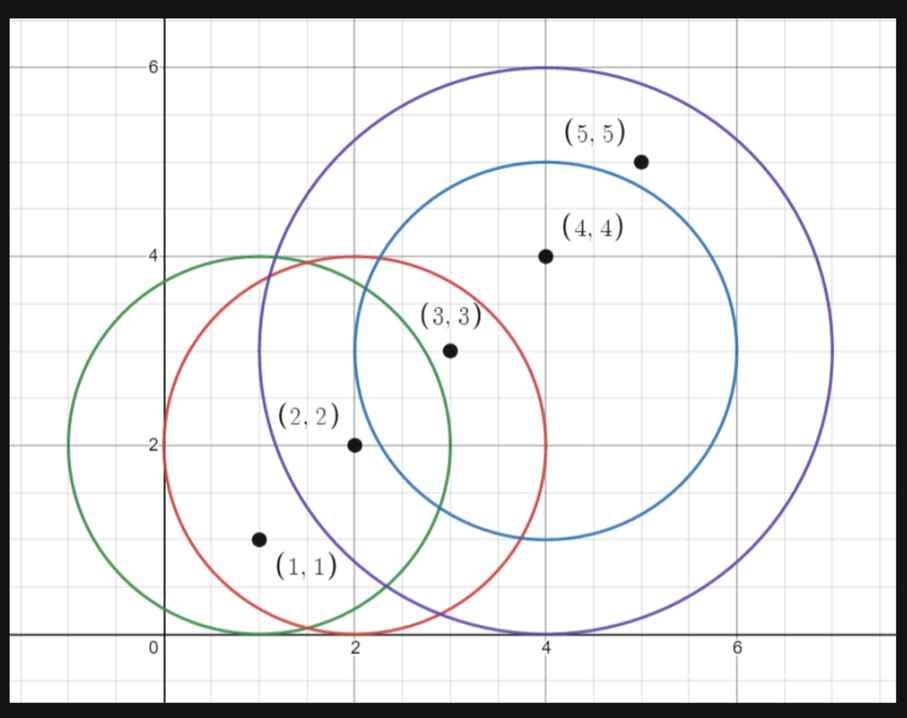
Return *an array* `answer`, *where* `answer[j]` *is the answer to the* `j th` *query*.

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 <= x_i, y_i <= 500`
- `1 <= queries.length <= 500`
- `queries[j].length == 3`
- `0 <= x_j, y_j <= 500`
- `1 <= r_j <= 500`
- All coordinates are integers.

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