

2013. Detect Squares

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Medium Topics Companies Chint
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You are given a stream of points on the X-Y plane. Design an algorithm that:

- Adds new points from the stream into a data structure. Duplicate points are allowed and should be treated as different points.
- Given a query point, counts the number of ways to choose three points from the data structure such that the three points and the query

An axis-aligned square is a square whose edges are all the same length and are either parallel or perpendicular to the x-axis and y-axis.

Implement the DetectSquares class:

- DetectSquares() Initializes the object with an empty data structure.
- void add(int[] point) Adds a new point point = [x, y] to the data structure.
- int count(int[] point) Counts the number of ways to form axis-aligned squares with point point = [x, y] as described above.

Example 1:

