1197. Minimum Knight Moves Premium Medium ♥ Topics 🔁 Companies 🗘 Hint In an **infinite** chess board with coordinates from <code>-infinity</code> to <code>+infinity</code>, you have a **knight** at square <code>[0, 0]</code>. A knight has 8 possible moves it can make, as illustrated below. Each move is two squares in a cardinal direction, then one square in an orthogonal direction. Return the minimum number of steps needed to move the knight to the square [x, y]. It is guaranteed the answer exists. Example 1: **Input:** x = 2, y = 1Output: 1 **Explanation:** $[0, 0] \rightarrow [2, 1]$ Example 2: **Input:** x = 5, y = 5Output: 4 **Explanation:** $[0, 0] \rightarrow [2, 1] \rightarrow [4, 2] \rightarrow [3, 4] \rightarrow [5, 5]$ Constraints: • -300 <= x, y <= 300 • 0 <= |x| + |y| <= 300 Seen this question in a real interview before? 1/5 No Acceptance Rate 40.8% Accepted 163.7K Submissions 400.9K ♥ Topics Breadth-First Search € Companies 0 - 3 months Meta 2 Nvidia 2 Verily 2 0 - 6 months Google 2 6 months ago Amazon 5 Microsoft 4 Booking.com 3 LinkedIn 2 Citadel 25 Q Hint 1 You can simulate the movements since the limits are low. O Hint 2 Is there a search algorithm applicable to this problem? Q Hint 3 Since we want the minimum number of moves, we can use Breadth First Search. **₹** Similar Questions **Check Knight Tour Configuration**

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