1257. Smallest Common Region Premium Medium ♥ Topics 🖫 Companies 🗘 Hint You are given some lists of regions where the first region of each list includes all other regions in that list. Naturally, if a region χ contains another region χ then χ is bigger than χ . Also, by definition, a region χ contains itself. Given two regions: region1 and region2, return the smallest region that contains both of them. If you are given regions r1, r2, and r3 such that r1 includes r3, it is guaranteed there is no r2 such that r2 includes r3. It is guaranteed the smallest region exists. Example 1: Input: regions = [["Earth","North America","South America"], ["North America", "United States", "Canada"], ["United States", "New York", "Boston"], ["Canada","Ontario","Quebec"], ["South America", "Brazil"]], region1 = "Quebec", region2 = "New York" Output: "North America" Example 2: Input: regions = [["Earth", "North America", "South America"], ["North America", "United States", "Canada"], ["United States", "New York", "Boston"], ["Canada", "Ontario", "Quebec"],["South America", "Brazil"]], region1 = "Canada", region2 = "South America" Output: "Earth" **Constraints:** • 2 <= regions.length <= 10⁴ • 2 <= regions[i].length <= 20 • 1 <= regions[i][j].length, region1.length, region2.length <= 20 region1 != region2 regions [i] [j], region1, and region2 consist of English letters. Seen this question in a real interview before? 1/5 No Submissions 45.6K Acceptance Rate 68.0% Accepted 31K ♥ Topics Array Hash Table String Tree Depth-First Search Breadth-First Search **Companies** 0 - 3 months Airbnb 2 0 - 6 months TikTok 2 O Hint 1 Try to model the problem as a graph problem. O Hint 2 The given graph is a tree. O Hint 3 The problem is reduced to finding the lowest common ancestor of two nodes in a tree. **₩** Similar Questions Lowest Common Ancestor of a Binary Search Tree Lowest Common Ancestor of a Binary Tree Discussion (9)

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