1257. Smallest Common Region

Solved •

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 x contains another region y then x is bigger than y. Also, by definition, a region x 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"

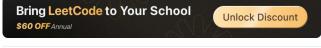
Example 2:

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
Yes No
Accepted 29.8K Submissions 44K Acceptance Rate 67.7%

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Hint 1

Hint 2

Hint 3

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