

LeetCode

Day 29

Explore

Problems

Interview

Contest

Discuss

Store

July LeetCode Challenge 2021

Premium

Description

Solution

Discuss (999+)

Submissions

i

Java

Autocomplete

i

{ }

↶

↷

↺

127. Word Ladder

Hard

5611

1467

Add to List

Share

A **transformation sequence** from word `beginWord` to word `endWord` using a dictionary `wordList` is a sequence of words `beginWord` -> s_1 -> s_2 -> ... -> s_k such that:

- Every adjacent pair of words differs by a single letter.
- Every s_i for $1 \leq i \leq k$ is in `wordList`. Note that `beginWord` does not need to be in `wordList`.
- $s_k == endWord$

Given two words, `beginWord` and `endWord`, and a dictionary `wordList`, return *the **number of words** in the **shortest transformation sequence** from `beginWord` to `endWord`, or 0 if no such sequence exists.*

Example 1:

Input:

`beginWord = "hit", endWord = "cog", wordList = ["hot","dot","dog","lot","log","cog"]`

Output:

5

Explanation:

One shortest transformation sequence is "hit" -> "hot" -> "dot" -> "dog" -> "cog", which is 5 words long.

Example 2:

Input:

`beginWord = "hit", endWord = "cog", wordList = ["hot","dot","dog","lot","log"]`

Output:

0

Explanation:

The endWord "cog" is not in wordList, therefore there is no valid transformation sequence.

Constraints:

- $1 \leq beginWord.length \leq 10$
- `endWord.length == beginWord.length`
- $1 \leq wordList.length \leq 5000$
- `wordList[i].length == beginWord.length`
- `beginWord`, `endWord`, and `wordList[i]` consist of lowercase English letters.
- `beginWord != endWord`
- All the words in `wordList` are **unique**.

Accepted 613,812

Submissions 1,857,051

Seen this question in a real interview before?

Yes

No

Companies

Related Topics

Similar Questions

1

2

3

4

5

class Solution {

public int ladderLength(String beginWord, String endWord, List<String> wordList) {

}

⌵ Problems

✂ Pick One

< Prev

127/1950

Next >

Console

Contribute

Run Code

Submit

https://leetcode.com/problems/word-ladder/

1/1