

Medium O Add to List [ Share **6** 970 **夕** 297

Design a data structure that will be initialized with a string array, and then it should answer queries of the shortest distance between two different strings from the array.

Implement the WordDistance class:

- WordDistance(String[] wordsDict) initializes the object with the strings array wordsDict.
- int shortest(String word1, String word2) returns the shortest distance between word1 and word2 in the array wordsDict.

## **Example 1:**

```
Input
["WordDistance", "shortest", "shortest"]
[[["practice", "makes", "perfect", "coding", "makes"]], ["coding", "practice"],
["makes", "coding"]]
Output
[null, 3, 1]
Explanation
WordDistance wordDistance = new WordDistance(["practice", "makes", "perfect",
"coding", "makes"]);
wordDistance.shortest("coding", "practice"); // return 3
wordDistance.shortest("makes", "coding"); // return 1
```

## Constraints:

- 1 <= wordsDict.length <=  $3 * 10^4$
- 1 <= wordsDict[i].length <= 10
- wordsDict[i] consists of lowercase English letters.
- word1 and word2 are in wordsDict.
- word1 != word2
- At most 5000 calls will be made to shortest.

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≔ Problems

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