

Description

Solution

Submissions

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Python

Autocomplete

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411. Minimum Unique Word Abbreviation

Hard 👍 121 💬 119 ❤️ Add to List 📄 Share

A string such as "word" contains the following abbreviations:

```
["word", "1ord", "w1rd", "wo1d", "wor1", "2rd", "w2d", "wo2", "1o1d", "1or1", "w1r1", "1o2", "2r1", "3d", "w3", "4"]
```

Given a target string and a set of strings in a dictionary, find an abbreviation of this target string with the **smallest possible** length such that it does not conflict with abbreviations of the strings in the dictionary.

Each **number** or letter in the abbreviation is considered length = 1. For example, the abbreviation "a32bc" has length = 4.

Note:

- In the case of multiple answers as shown in the second example below, you may return any one of them.
- Assume length of target string = m , and dictionary size = n . You may assume that $m \leq 21$, $n \leq 1000$, and $\log_2(n) + m \leq 20$.

Examples:

```
"apple", ["blade"] -> "a4" (because "5" or "4e" conflicts with "blade")
```

```
"apple", ["plain", "amber", "blade"] -> "1p3" (other valid answers include "ap3", "a3e", "2p2", "31e", "311").
```

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No

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```
1 class Solution(object):
2     def minAbbreviation(self, target, dictionary):
3         """
4         :type target: str
5         :type dictionary: List[str]
6         :rtype: str
7         """
8
```