## 408. Valid Word Abbreviation Premium

A string can be **abbreviated** by replacing any number of **non-adjacent**, **non-empty** substrings with their lengths. The lengths **should not** have leading zeros.

For example, a string such as "substitution" could be abbreviated as (but not limited to):

- "s10n" ("s <u>ubstitutio</u> n")
- "sub4u4" ("sub <u>stit</u> u <u>tion</u>")
- "12" ("<u>substitution</u>")
- "su3i1u2on" ("su <u>bst</u> i <u>t</u> u <u>ti</u> on")
- "substitution" (no substrings replaced)

The following are **not valid** abbreviations:

- "s55n" ("s <u>ubsti</u> <u>tutio</u> n", the replaced substrings are adjacent)
- "s010n" (has leading zeros)
- "s@ubstitution" (replaces an empty substring)

Given a string word and an abbreviation abbr, return whether the string matches the given abbreviation.

A **substring** is a contiguous **non-empty** sequence of characters within a string.

## Example 1:

```
Output: true Explanation: The word "internationalization" can be abbreviated as "i12iz4n" ("i <a href="nternational">nternational</a> iz <a href="atio">atio</a> n").
```

Input: word = "internationalization", abbr = "i12iz4n"

## Example 2:

```
Input: word = "apple", abbr = "a2e"
Output: false
```

Evalorations

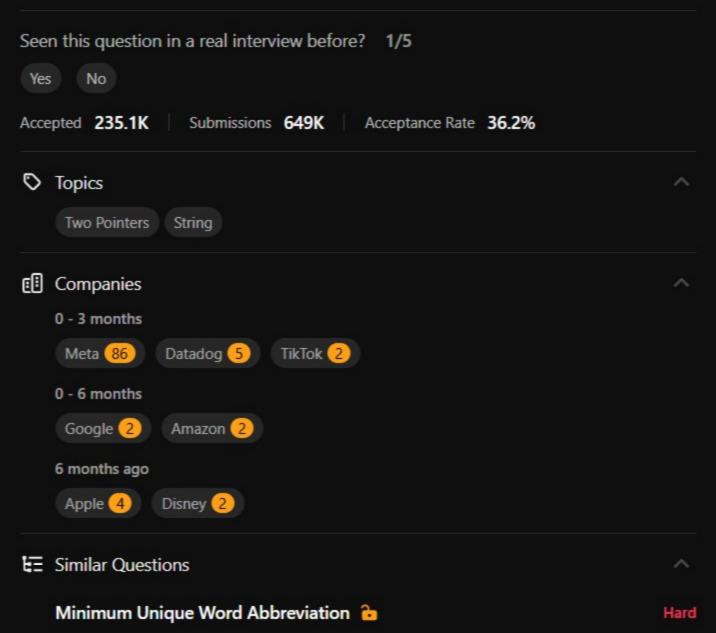
Explanation: The word "apple" cannot be abbreviated as "a2e".

## Constraints

- 1 <= word.length <= 20
- word consists of only lowercase English letters.
- 1 <= abbr.length <= 10
- ....

abbr consists of lowercase English letters and digits.

All the integers in abbr will fit in a 32-bit integer.



Check if an Original String Exists Given Two Encoded Strings

Hard

Copyright © 2024 LeetCode All rights reserved

Word Abbreviation