

408. Valid Word Abbreviation Premium

Solved ●

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

The following are **not valid** abbreviations:

- "s55n" ("s ubsti tutio n", the replaced substrings are adjacent)
- "s010n" (has leading zeros)
- "s0ubstitution" (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:

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

Output: true

Explanation: The word "internationalization" can be abbreviated as "i12iz4n" ("i nternational iz atio n").

Example 2:

Input: word = "apple", abbr = "a2e"

Output: false

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

Constraints:

- $1 \leq \text{word.length} \leq 20$
- `word` consists of only lowercase English letters.
- $1 \leq \text{abbr.length} \leq 10$
- `abbr` consists of lowercase English letters and digits.
- All the integers in `abbr` will fit in a 32-bit integer.

Seen this question in a real interview before? 1/4

Yes No

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