

[My Submissions \(/contest/weekly-contest-265/problems/check-if-an-original-string-exists-given-two-encoded-strings/submissions/\)](/contest/weekly-contest-265/problems/check-if-an-original-string-exists-given-two-encoded-strings/submissions/)

An original string, consisting of lowercase English letters, can be encoded by the following steps:

- | | |
|--------------------|------|
| User Accepted: | 0 |
| User Tried: | 0 |
| Total Accepted: | 0 |
| Total Submissions: | 0 |
| Difficulty: | Hard |

- Split it as a sequence: ["ab", "cdefghijklmn", "o", "p"] .
- Choose the second and third elements to be replaced by their lengths, respectively. The sequence becomes ["ab", "12", "1", "p"] .
- Concatenate the elements of the sequence to get the encoded string: "ab121p" .

Note: The test cases are generated such that the number of consecutive digits in `s1` and `s2` does not exceed 3.

```

Input: s1 = "internationalization", s2 = "i18n"
Output: true
Explanation: It is possible that "internationalization" was the original string.
- "internationalization"
  -> Split:      ["internationalization"]
  -> Do not replace any element
  -> Concatenate: "internationalization", which is s1.
- "internationalization"
  -> Split:      ["i", "nternationalizatio", "n"]
  -> Replace:     ["i", "18", "n"]
  -> Concatenate: "i18n", which is s2

```

```

Input: s1 = "l123e", s2 = "44"
Output: true
Explanation: It is possible that "leetcode" was the original string.
- "leetcode"
  -> Split:      ["l", "e", "et", "cod", "e"]
  -> Replace:    ["l", "1", "2", "3", "e"]
  -> Concatenate: "l123e", which is s1.
- "leetcode"
  -> Split:      ["leet", "code"]
  -> Replace:    ["4", "4"]
  -> Concatenate: "44", which is s2.

```

Input: s1 = "a5b", s2 = "c5b"
Output: false
Explanation: It is impossible.
 - The original string encoded as s1 must start with the letter 'a'.
 - The original string encoded as s2 must start with the letter 'c'.

 $\frac{1}{2}$

Input: s1 = "112s", s2 = "g841"
Output: true
Explanation: It is possible that "gaaaaaaaaaas" was the original string
 - "gaaaaaaaaaas"
 -> Split: ["g", "aaaaaaaaaaaa", "s"]
 -> Replace: ["1", "12", "s"]
 -> Concatenate: "112s", which is s1.
 - "gaaaaaaaaaas"
 -> Split: ["g", "aaaaaaa", "aaaa", "s"]
 -> Replace: ["g", "8", "4", "1"]
 -> Concatenate: "g841", which is s2.

Example 5:

Input: s1 = "ab", s2 = "a2"
Output: false
Explanation: It is impossible.
 - The original string encoded as s1 has two letters.
 - The original string encoded as s2 has three letters.

Constraints:

- $1 \leq s1.length, s2.length \leq 40$
- s1 and s2 consist of digits 1–9 (inclusive), and lowercase English letters only.
- The number of consecutive digits in s1 and s2 does not exceed 3.

JavaScript



```

1  /**
2   * @param {string} s1
3   * @param {string} s2
4   * @return {boolean}
5   */
6  var possiblyEquals = function(s1, s2) {
7
8  };

```

☐ Custom Testcase☒ Use Example Testcases

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