

1849. Splitting a String Into Descending Consecutive Values

Medium  Topics  Hint

You are given a string `s` that consists of only digits.

Check if we can split `s` into **two or more non-empty substrings** such that the **numerical values** of the substrings are in **descending order**.

- For example, the string `s = "0090089"` can be split into `["0090", "089"]` with numerical values `[90, 89]`. The values are in descending order with adjacent values differing by 1.
- Another example, the string `s = "001"` can be split into `["0", "01"]`, `["00", "1"]`, or `["0", "0", "1"]`. However all the ways are invalid because they do not satisfy the condition of descending order.

Return `true` *if it is possible to split s as described above, or false otherwise*.

A **substring** is a contiguous sequence of characters in a string.

Example 1:

Input: `s = "1234"`
Output: `false`
Explanation: There is no valid way to split `s`.

Example 2:

Input: `s = "050043"`
Output: `true`
Explanation: `s` can be split into `["05", "004", "3"]` with numerical values `[5,4,3]`. The values are in descending order with adjacent values differing by 1.

Example 3:

Input: `s = "9080701"`
Output: `false`
Explanation: There is no valid way to split `s`.

Constraints:

- `1 <= s.length <= 20`
- `s` only consists of digits.

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

☒ Yes ☐ No

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 Topics

 Hint 1

 Hint 2

 Discussion (5)