☆ Premium
🏬 (/subscribe?
Store ref=nb_npl)   🔔   ◇ orounds-to-complete-
all-tasks/)   👤

2522. Partition String Into Substrings With Values at Most K

My Submissions (/contest/weekly-contest-326/problems/partition-string-into-substrings-with-values-at-most-k/submissions/)

Back to Contest (/contest/weekly-contest-326/)

You are given a string `s` consisting of digits from `1` to `9` and an integer `k`.

A partition of a string `s` is called **good** if:

- Each digit of `s` is part of **exactly** one substring.
- The value of each substring is less than or equal to `k`.

Return the **minimum** number of substrings in a **good** partition of `s`. If no **good** partition of `s` exists, return −1.

Note that:

- The **value** of a string is its result when interpreted as an integer. For example, the value of `"123"` is `123` and the value of `"1"` is `1`.
- A **substring** is a contiguous sequence of characters within a string.

User Accepted:	3817
User Tried:	4873
Total Accepted:	3936
Total Submissions:	10318
Difficulty:	Medium

Example 1:

```
Input: s = "165462", k = 60
Output: 4
Explanation: We can partition the string into substrings "16", "54", "6", and "2". Each substring has a value less than or equa
It can be shown that we cannot partition the string into less than 4 substrings.
```

Example 2:

```
Input: s = "238182", k = 5
Output: −1
Explanation: There is no good partition for this string.
```

Constraints:

- $1 <= s.length <= 10^5$
- `s[i]` is a digit from `'1'` to `'9'`.
- $1 <= k <= 10^9$

Discuss (https://leetcode.com/problems/partition-string-into-substrings-with-values-at-most-k/discuss)

JavaScript ▾   ⟨⟩   ↻   ⚙

```javascript
 1 ▾ const minimumPartition = (s, k) => {
 2       let n = s.length, cur = 0, res = 0;
 3 ▾     for (let i = 0; i < n; i++) {
 4           let v = s[i] - '0';
 5           if (v > k) return -1;
 6 ▾         if (cur * 10 + v <= k) {
 7               cur = cur * 10 + v;
 8 ▾         } else {
 9 ▾             if (cur == 0 || cur > k) {
10                   return -1;
11 ▾             } else {
12                   res++;
13                   cur = v;
14               }
15           }
16       }
17       if (cur > 0 && cur <= k) res++;
18       return res;
```

```
19   };
```

☐ **Custom Testcase** [Use Example Testcases]

[▶ Run] [☁ Submit]

Submission Result: Accepted (/submissions/detail/871485187/) ❓ [More Details ❯ (/submissions/detail/871485187/)]

Share your acceptance!

◀ **3**

Copyright © 2023 LeetCode

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

🇺🇸 United States (/region)