6196. Partition String Into Substrings With Values at Most K

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User Accepted:	0
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Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

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.

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`

JavaScript

```
const minimumPartition = (s, k) => {
    let n = s.length, cur = 0, res = 0;
    for (let i = 0; i < n; i++) {
        if (cur * 10 + (s.charCodeAt(i) - '0'.charCodeAt(0)) <= k) {
            cur = cur * 10 + (s.charCodeAt(i) - '0'.charCodeAt(0));
        } else {
            if (cur == 0 || cur > k) {
                return -1;
            }
            else {
                res++;
                cur = s.charCodeAt(i) - '0'.charCodeAt(0);
            }
        }
    }
    if (cur > 0 && cur <= k) res++;
    return res;
};
```

Custom Testcase Use Example Testcases

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