Problem 1400: Construct K Palindrome Strings

Problem Information

Difficulty: Medium
Acceptance Rate: 68.64%
Paid Only: No
Tags: Hash Table, String, Greedy, Counting

Problem Description

Given a string `s` and an integer `k`, return `true` if you can use all the characters in `s` to construct **non-empty** `k` palindrome strings or `false` otherwise.

Example 1:

Input: s = "annabelle", k = 2 **Output:** true **Explanation:** You can construct two palindromes using all characters in s. Some possible constructions "anna" + "elble", "anbna" + "elle", "anellena" + "b"

Example 2:

Input: s = "leetcode", k = 3 **Output:** false **Explanation:** It is impossible to construct 3 palindromes using all the characters of s.

Example 3:

Input: s = "true", k = 4 **Output:** true **Explanation:** The only possible solution is to put each character in a separate string.

Constraints:

* `1 <= s.length <= 105` * `s` consists of lowercase English letters. * `1 <= k <= 105`

Code Snippets

C++:

```
class Solution {
public:
bool canConstruct(string s, int k) {

}
};
```

Java:

```
class Solution {
public boolean canConstruct(String s, int k) {

}
}
```

Python3:

```
class Solution:
def canConstruct(self, s: str, k: int) -> bool:
```