Given a string s and an integer k. You should construct k non-empty **palindrome** strings using **all the characters** in s.

Return ***True*** if you can use all the characters in s to construct 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.

**Example 4:**

**Input:** s = "yzyzyzyzyzyzyzy", k = 2

**Output:** true

**Explanation:** Simply you can put all z's in one string and all y's in the other string. Both strings will be palindrome.

**Example 5:**

**Input:** s = "cr", k = 7

**Output:** false

**Explanation:** We don't have enough characters in s to construct 7 palindromes.

**Constraints:**

* 1 <= s.length <= 10^5
* All characters in s are lower-case English letters.
* 1 <= k <= 10^5