2014. Longest Subsequence Repeated k Times

Description

You are given a string s of length n, and an integer k. You are tasked to find the longest subsequence repeated k times in string s.

A subsequence is a string that can be derived from another string by deleting some or no characters without changing the order of the remaining characters.

A subsequence seq is **repeated** k times in the string s if seq * k is a subsequence of s, where seq * k represents a string constructed by concatenating seq k times.

• For example, "bba" is repeated 2 times in the string "bababcba", because the string "bbabba", constructed by concatenating "bba" 2 times, is a subsequence of the string "babccba".

Return the longest subsequence repeated k times in string s . If multiple such subsequences are found, return the lexicographically largest one. If there is no such subsequence, return an empty string.

Example 1:



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Input: s = "letsleetcode", k = 2
Output: "let"
Explanation: There are two longest subsequences repeated 2 times: "let" and "ete".
"let" is the lexicographically largest one.
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Example 2:

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Input: s = "bb", k = 2
Output: "b"
Explanation: The longest subsequence repeated 2 times is "b".
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Example 3:

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Input: s = "ab", k = 2
Output: ""
Explanation: There is no subsequence repeated 2 times. Empty string is returned.
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Constraints:

- n == s.length
- 2 <= n, k <= 2000
- 2 <= n < k * 8
- s consists of lowercase English letters.