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1202. Smallest String With Swaps

Medium

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You are given a string `s`, and an array of pairs of indices in the string `pairs` where `pairs[i] = [a, b]` indicates 2 indices(0-indexed) of the string.

You can swap the characters at any pair of indices in the given `pairs` **any number of times**.

Return the lexicographically smallest string that `s` can be changed to after using the swaps.

Example 1:

Input:

s = "dcab", pairs = [[0,3],[1,2]]

Output:

"bacd"

Explanation:

Swap s[0] and s[3], s = "bcad"

Swap s[1] and s[2], s = "bacd"

Example 2:

Input:

s = "dcab", pairs = [[0,3],[1,2],[0,2]]

Output:

"abcd"

Explanation:

Swap s[0] and s[3], s = "bcad"

Swap s[0] and s[2], s = "acbd"

Swap s[1] and s[2], s = "abcd"

Example 3:

Input:

s = "cba", pairs = [[0,1],[1,2]]

Output:

"abc"

Explanation:

Swap s[0] and s[1], s = "bca"

Swap s[1] and s[2], s = "bac"

Swap s[0] and s[1], s = "abc"

Constraints:

- 1 <= s.length <= 10^5
- 0 <= pairs.length <= 10^5
- 0 <= pairs[i][0], pairs[i][1] < s.length
- s only contains lower case English letters.

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class Solution {

2

public String smallestStringWithSwaps(String s, List<List<Integer>> pairs) {

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}

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}

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Problems

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