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1807. Evaluate the Bracket Pairs of a String

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3484

3749

3554

5135

(Medium)

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Difficulty:

You are given a string s that contains some bracket pairs, with each pair containing a non-empty key.

• For example, in the string "(name)is(age)yearsold", there are **two** bracket pairs that contain the keys "name" and "age".

You know the values of a wide range of keys. This is represented by a 2D string array knowledge where each knowledge[i] = $[\text{key}_i, \text{value}_i]$ indicates that key $[\text{key}_i, \text{has a value of value}_i]$.

You are tasked to evaluate all of the bracket pairs. When you evaluate a bracket pair that contains some key key_1 , you will:

- Replace key_i and the bracket pair with the key's corresponding value_i.
- If you do not know the value of the key, you will replace key_i and the bracket pair with a question mark "?" (without the quotation marks).

Each key will appear at most once in your knowledge . There will not be any nested brackets in $\,s\,$.

Return the resulting string after evaluating all of the bracket pairs.

Example 1:

```
Input: s = "(name)is(age)yearsold", knowledge = [["name","bob"],["age","two"]]
Output: "bobistwoyearsold"
Explanation:
The key "name" has a value of "bob", so replace "(name)" with "bob".
The key "age" has a value of "two", so replace "(age)" with "two".
```

Example 2:

```
Input: s = "hi(name)", knowledge = [["a","b"]]
Output: "hi?"
Explanation: As you do not know the value of the key "name", replace "(name)" with "?".
```

Example 3:

```
Input: s = "(a)(a)(a)aaa", knowledge = [["a","yes"]]
Output: "yesyesyesaaa"
Explanation: The same key can appear multiple times.
The key "a" has a value of "yes", so replace all occurrences of "(a)" with "yes".
Notice that the "a"s not in a bracket pair are not evaluated.
```

Example 4:

```
Input: s = "(a)(b)", knowledge = [["a","b"],["b","a"]]
Output: "ba"
```

Constraints:

- 1 <= s.length <= 10^5
- 0 <= knowledge.length <= 10^5
- knowledge[i].length == 2
- 1 <= key_i .length, $value_i$.length <= 10
- s consists of lowercase English letters and round brackets '(' and ')'.
- Every open bracket '(' in s will have a corresponding close bracket ')'.
- The key in each bracket pair of s will be non-empty.
- There will not be any nested bracket pairs in s .
- key_i and value_i consist of lowercase English letters.
- Each key_i in knowledge is unique.

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