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] = [keyi, valuei] indicates that key keyi has a value of valuei.

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

* Replace keyi and the bracket pair with the key's corresponding valuei.
* If you do not know the value of the key, you will replace keyi 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 <= 105
* 0 <= knowledge.length <= 105
* knowledge[i].length == 2
* 1 <= keyi.length, valuei.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.
* keyi and valuei consist of lowercase English letters.
* Each keyi in knowledge is unique.