648. Replace Words

Description

In English, we have a concept called **root**, which can be followed by some other word to form another longer word - let's call this word **successor**. For example, when the **root** `"an"` is followed by the **successor** word `"other"`, we can form a new word `"another"`.

Given a `dictionary` consisting of many **roots** and a `sentence` consisting of words separated by spaces, replace all the **successors** in the sentence with the **root** forming it. If a **successor** can be replaced by more than one **root**, replace it with the **root** that has **the shortest length**.

Return *the* `sentence` after the replacement.

Example 1:

```
Input: dictionary = ["cat","bat","rat"], sentence = "the cattle was rattled by the battery"
Output: "the cat was rat by the bat"
```

Example 2:

```
Input: dictionary = ["a","b","c"], sentence = "aadsfasf absbs bbab cadsfafs"
Output: "a a b c"
```

Constraints:

- `1 <= dictionary.length <= 1000`
- `1 <= dictionary[i].length <= 100`
- `dictionary[i]` consists of only lower-case letters.
- `1 <= sentence.length <= 10^6`
- `sentence` consists of only lower-case letters and spaces.
- The number of words in `sentence` is in the range `[1, 1000]`
- The length of each word in `sentence` is in the range `[1, 1000]`
- Every two consecutive words in `sentence` will be separated by exactly one space.
- `sentence` does not have leading or trailing spaces.