Replace Words

Try to solve the Replace Words problem.

We'll cover the following Statement Examples Understand the problem Figure it out! Try it yourself

Statement

In this problem, we are considering the words that are composed of a <u>prefix</u> and a <u>postfix</u>. For example, if we append a postfix "happy" to a prefix "un", it forms the word "unhappy". Similarly, "disagree" is formed from a prefix, "dis" followed by a postfix, "agree".

You're given a dictionary, dictionary, consisting of prefixes, and a sentence, sentence, which has words separated by spaces only. Your task is to replace the words in sentence with their prefixes given in dictionary (if found) and return the modified sentence.

A couple of points to keep in mind:

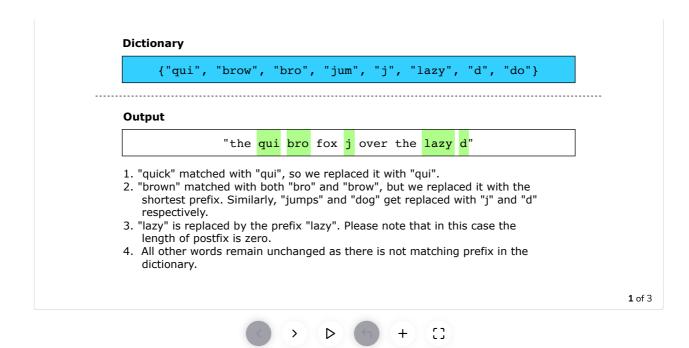
- If a word in the sentence matches more than one prefix in the dictionary, replace it with the prefix that has the shortest length. For example, if we have the sentence "iphone is amazing", and the dictionary {"i", "ip", "hone"}, then the word "iphone" has two prefixes in the dictionary "i" and "ip", but we will replace it with the one that is shorter among the two, that is, "i".
- If there is no root word against any word in the sentence, leave it unchanged.

Constraints:

- $1 \leq \text{dictionary.length} \leq 1000$
- $1 \le \text{dictionary[i].length} \le 100$
- dictionary[i] consists of only lowercase letters.
- $1 \le \text{sentence.length} \le 10^3$
- The number of words in sentence is in the range [1, 100].
- The length of each word in sentence is in the range [1, 100].
- Two consecutive words in sentence should be separated by exactly one space.
- All words in sentence are lowercase.
- For a word in sentence, the length of a prefix can be [1, 100], and the length of a postfix can be [0, 100].

Examples





Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

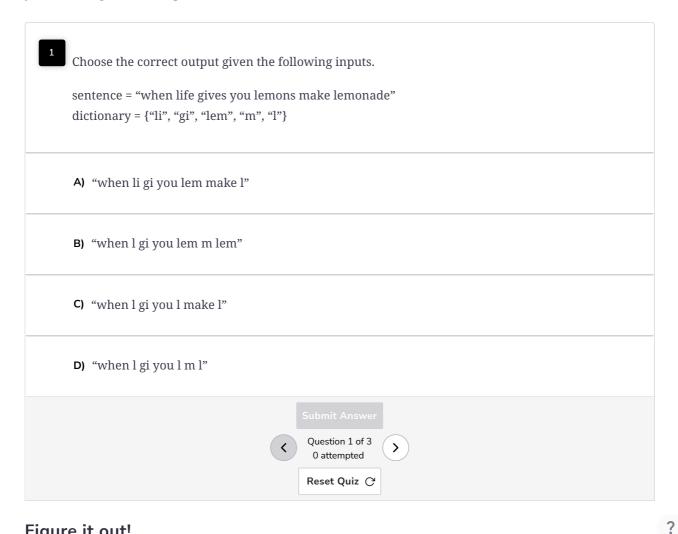
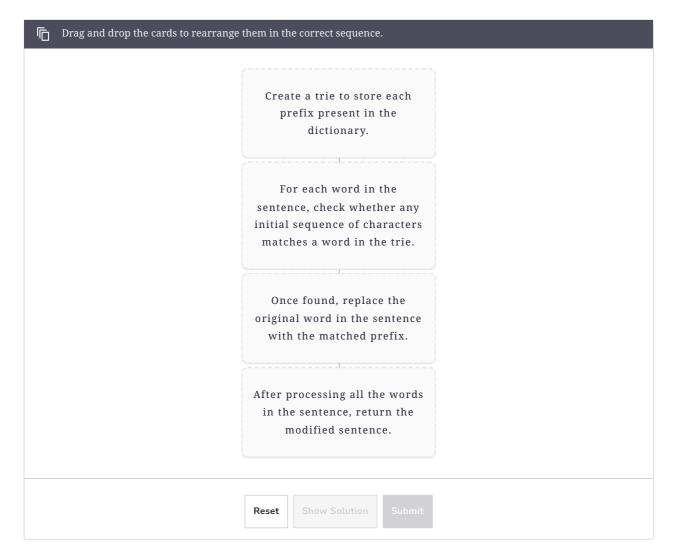


Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

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Try it yourself

Implement your solution in main.java in the following coding playground. You'll need the provided supporting code to implement your solution. We have also provided a useful code template that you may build on to solve this problem.





Replace Words



Next →

Solution: Search Sugg...

Solution: Replace Wor...



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