Challenge 4: Word Formation From a Dictionary Using Trie

This is a word matching problem regarding tries.

We'll cover the following ⌃

- Problem Statement
  - Input
  - Output
  - Sample Input
  - Sample Output
- Coding Exercise

Problem Statement#

You have to implement the `is_formation_possible()` function which will find whether a given word can be formed by combining two words from a dictionary. We assume that all words are in lower case.

Input#

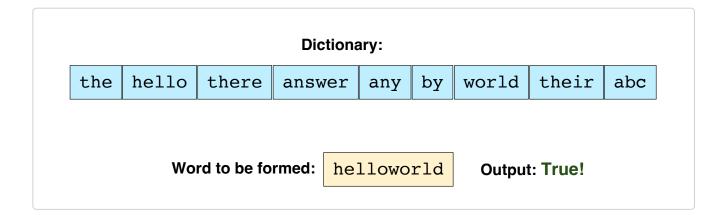A dictionary and a query word containing lowercase characters.

Output#

Returns `True` if the given word can be generated by combining words
from the dictionary.

Sample Input#

```
dictionary = ["the", "hello", "there", "answer", "any", "by", "wor
ld", "their", "abc"]
word = "helloworld"
```

Sample Output#

```
True
```

Dictionary:

| the | hello | there | answer | any | by | world | their | abc |

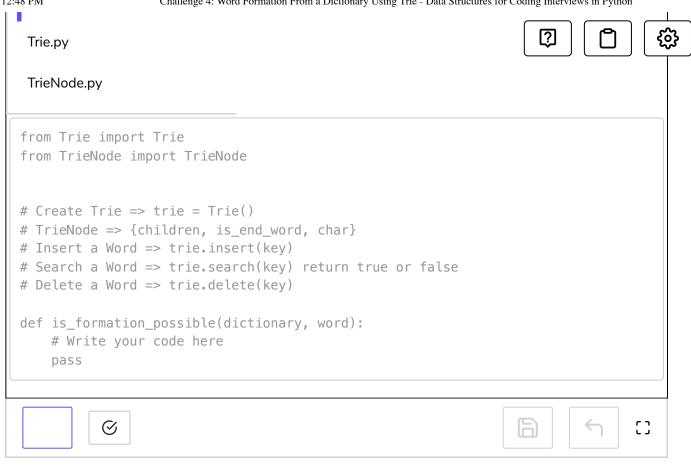**Word to be formed:** `helloworld`   Output: **True!**

Coding Exercise

Design a step-by-step algorithm first before jumping on to the
implementation. Try to think whether a recursive or an iterative approach
would be better.

If you get stuck, you can always refer to the solution review.

Good luck!

main.py

Trie.py

TrieNode.py

```python
from Trie import Trie
from TrieNode import TrieNode


# Create Trie => trie = Trie()
# TrieNode => {children, is_end_word, char}
# Insert a Word => trie.insert(key)
# Search a Word => trie.search(key) return true or false
# Delete a Word => trie.delete(key)

def is_formation_possible(dictionary, word):
    # Write your code here
    pass
```

Interviewing soon? We've partnered with Hired so that companies apply to you instead of you applying to them. See how ⓘ

← **Back**

Solution Review: List Sort Using Trie

Next →

Solution Review: Word Formation Fro...

☑ Mark as Completed

⚠ Report an Issue