

Challenge 1: Total Number of Words in a Trie

For your first challenge regarding tries, you'll be writing a very commonly used function which gives us the trie word count.

We'll cover the following ^

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

Problem Statement

Implement the `total_words()` function which will find the total number of words in a trie.

Input

The root node of a trie.

Output

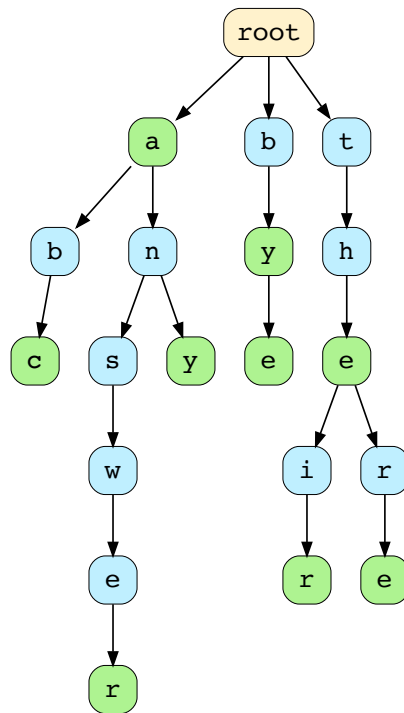
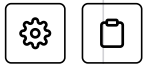
Returns total number of words in a trie.

Sample Input

```
keys = ["the", "a", "there", "answer", "any",  
        "by", "bye", "their", "abc"]
```

Sample Output

```
9
```



Total Number of Words : 9

Coding Exercise

Design a step-by-step algorithm first before jumping on to the implementation. This problem is designed for your practice, so try to solve it on your own first.

If you get stuck, you can always refer to the solution in the next lesson.

Good luck!

main.py

Trie.py

TrieNode.py

```
1 from Trie import Trie
2 from TrieNode import TrieNode
3
4
5 # TrieNode => {children, is_end_word, char,
6 # mark_as_leaf(), unmark_as_leaf()}
7 def total_words(root):
8     # Write - Your - Code
9     pass
10
```



← Back

Next →

Deletion in Trie

Solution Review: Total Number of Wor...

✓ Mark as Completed

— Report an

🔗 Ask a Question



Issue

(https://discuss.educative.io/tag/challenge-1-total-number-of-words-in-a-trie__trie__data-structures-for-coding-interviews-in-python)

