

Challenge 3: List Sort Using Trie

This lesson is about sorting string lists using tries.

We'll cover the following ^

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

Problem Statement

In this problem, you have to implement the `sort_list()` function which will sort the elements of a list of strings.

Input

A list of strings.

Output

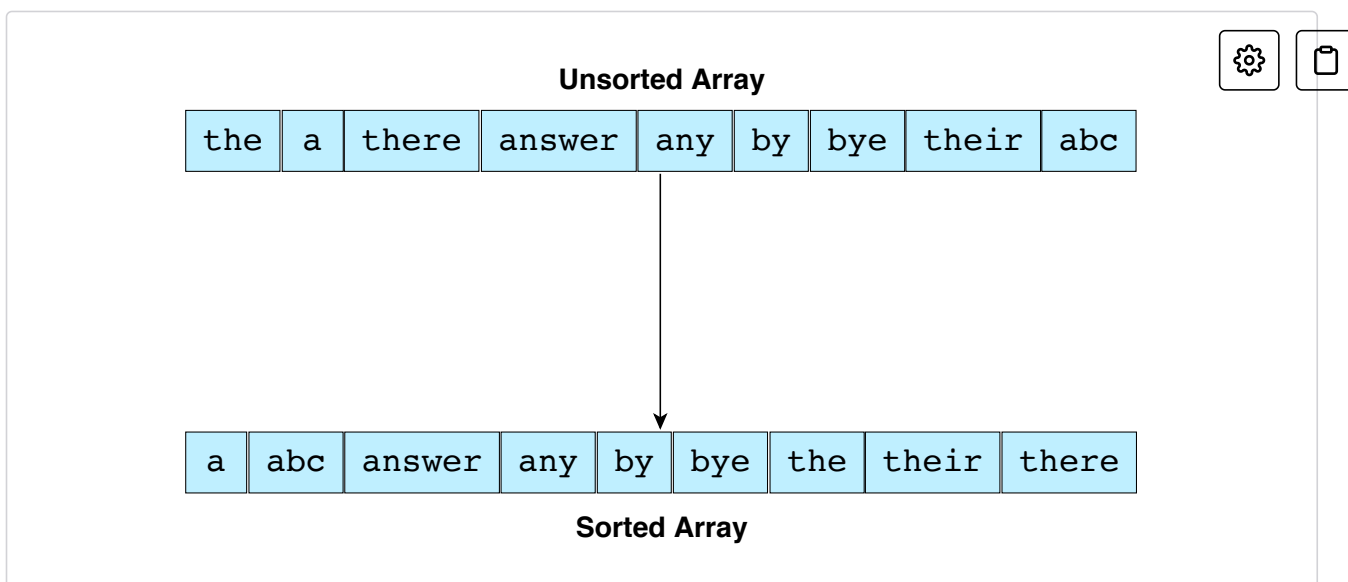
Returns the input list in a sorted state.

Sample Input

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

Sample Output

```
['a', 'abc', 'answer', 'any', 'by', 'bye', 'the', 'their', 'there']
```



Coding Exercise

Carefully examine the information above and 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.



Good luck!




main.py

Trie.py

TrieNode.py

```
1 from Trie import Trie
2 from TrieNode import TrieNode
3 # Create Trie => trie = Trie()
4 # TrieNode => {children, is_end_word, char,
5 # mark_as_leaf(), unmark_as_leaf()}
6 # get_root => trie.get_root()
7 # Insert a Word => trie.insert(key)
8 # Search a Word => trie.search(key) return true or false
9 # Delete a Word => trie.delete(key)
10
11
12 # Recursive Function to generate all words in alphabetic order
13 def sort_list(arr):
14     pass
15
```





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Next →

Solution Review: Find All Words Store...

Solution Review: List Sort Using Trie

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Issue

(https://discuss.educative.io/tag/challenge-3-list-sort-using-trie__trie__data-structures-for-coding-interviews-in-python)

