

Problem 5: Autocomplete with tries

In this problem, we store the given words in form of nested dictionaries such that each dictionary key is character of the word and `is_word` variable is true or false depending whether the character is the last character of any inserted word. The suffix method traverses through this nested dictionary and finds all the words whose `is_word` value is true.

Time complexity:

$O(n)$: where n is the number of unique characters in the given word.

Space complexity:

$O(n)$: where n is the total number of characters in all inserted words.