Problem 5:

Trie Auto complete problem uses class Trie and TrieNode for suggesting the words. the Trie data structure uses a dict data structure to hold the characters.

Time Complexity:

Class TrieNode:

insert() —> O(1)

suffixes() —> O(n) where n is the char in children

Class Trie:

insert() —> O(n) where n is the number of char in words

find() —> O(c) where c is number of character in prefix

Space Complexity:

O(Total number of words in dict)