	TRIES			
No.	Problem Statement	Solution	Time complexity	Space complexity
1	Implement Trie Prefix Tree			
	Implement Trie (void Insert(), bool Search(), bool StartsWith())	- Each Trie node contains pointers to its children which are also Trie nodes & isEnd flag	O(n) Insert O(n) Search O(n) startsWith	O(n) Insert O(1) Search O(1) startsWith
2	Design Add and Search Word Data Strucutre			
	Design a data structure that supports - void addWords(): Adding new words - bool search(): Finding there is any string in the data structure that matches word	- Use Trie - search(): If the current character is a dot (.), Recurse for all possible child nodes	O(m*n) addWord O(m* 26^n) Search m = # words n = avg length of strings in words	O(n) add Word O(n) Search
3	Word Search II			
	Given a board of characters & a list of words, return all words from the list that can be generated on the board	 Use Trie to store the list of words For each cell on the board, call 'search' to explore possible words starting from that cell. Search() The character in the current cell is used to navigate the trie. If the character does not exist in the current trie node's children, the search from this cell ends. If the end of a word (isEnd) is reached in the trie, that word is added to the answer list, and its isEnd flag is reset to avoid duplicate words in the result. Then recursively calls itself for all adjacent cells (up, down, left, and right). After exploring all possibilities from a cell, the cell's original value is restored so that it can be used in other search paths. 	O(m*n*k*4^l) k = words.size() l = avg length of strings in words	O(k*l) Trie O(l) Recursive