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## Trie Data Structure

Trie means refrieval.

Trie is sorted tree data structure that stores string. Has pointers equal to the number of character of the alphabet in each noce.

For example:

If we assume that all the strings are formed from letters 'a' to z'; each trie node can have maximum 26 points.

Properties of Trie for a set of String:

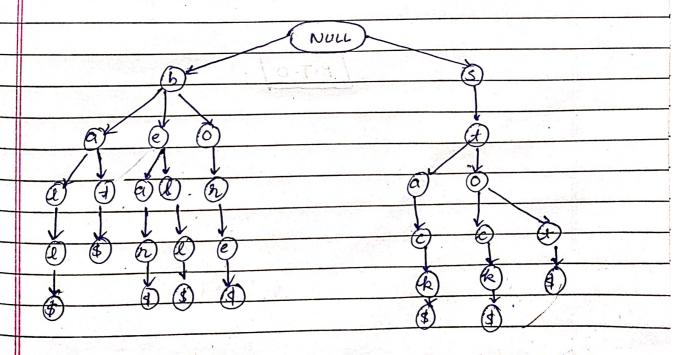
The root node always represents the null node

Each child of nodes is sorted alphabetically.

Each node can have maximum of 26 children (A-Z)

Each node (except the root) can store one letter of the alphabet.

The diagram representing for (i) Bell (iv bear , iii) bore, (iv) bat, (v) ball, (vi) Stop, (vii) Stock, (viii) Stock.



	Rage= (6)	
We have reduced to the second	Trie insert and Search:	
_		
-	Truestion and Search is some as trie DS.	
	Remember >	
	Every letter of the input key (word) is inserted as an indiv	
	-dual in the trie node. Note that children point to the next	
S. Fit	level of tric nodes.	
0		
χ-	The key charactes array acts as an index of children.	
2 ·	To the part in a colored was as and of his the larger was assault a	
	If the letter is not already represented by the person, we create a new rode for the letter and link them together.	
	new rode por the lotter and with them together.	
4.	The dally of Trio assessments to the read of wood Facts lavel	
	The depth of Trie corresponds to the length of word. Fach level down is like adding one more letter to the word.	
	BOWN W SHEETING E SEEDS TO THE WOOTH.	
	Time Complexity:	
	Insertion Delotion and Searchino: - (CL)	
The state of the s	Insertion, Delotion and Searching: - O(L) Lylength of they.	
that have	word this passe without the red of the passes of which are	
7.	Charles to the second of the second and the second of the	
olan ya wasuni da da sa		
	- ( Julia )	
	$P \cdot T \cdot O$	
	(a) (b) (b)	
	The face of the second of the	
	Charles (None of the Control of the	