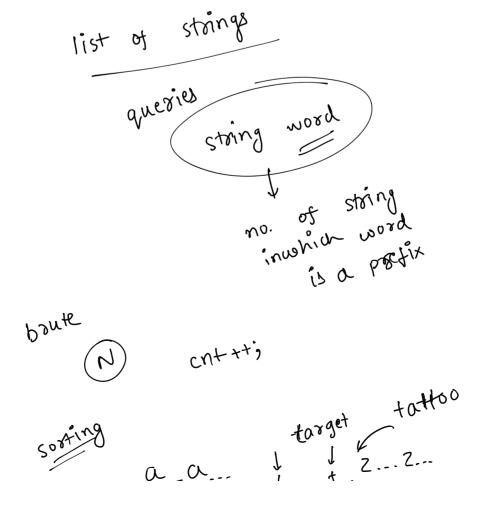
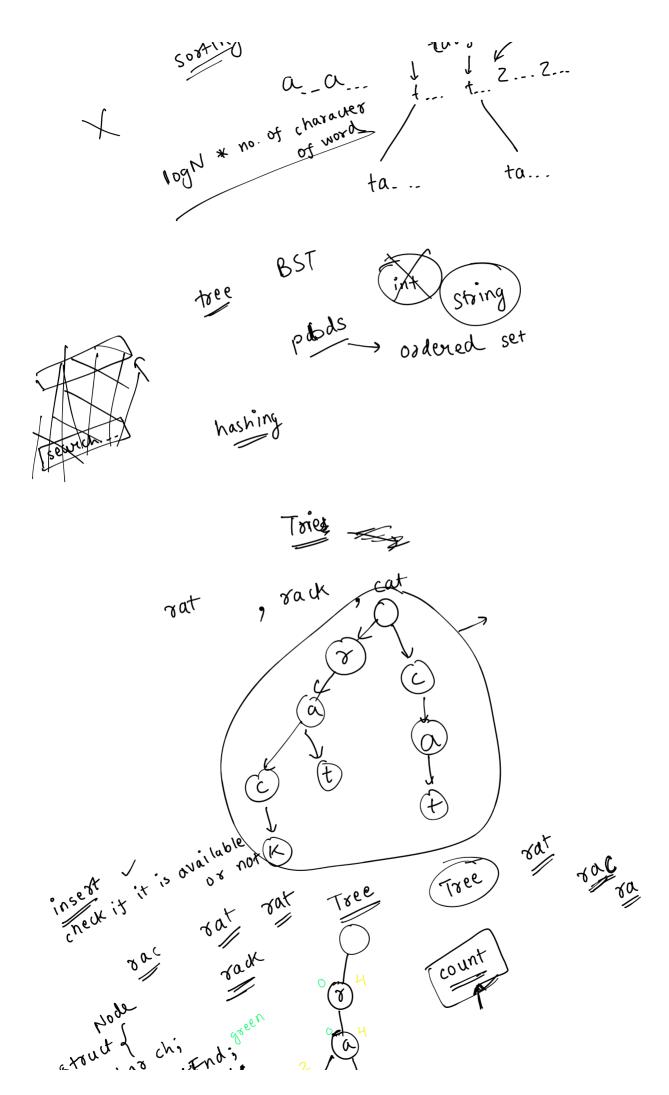
## Tries:-

- Problem Given a list of strings, and many queries, in each query we have a string word, and we have to tell the number of the strings in which word comes as a prefix.
- brute
- better (sorting)
- better (tree)
- Hint (tries)
- · Let's generalise this
- · Inserting a word
- Searching for a word
- Searching for count of words
- Searching for count of prefixes
- Deleting a word
- Code
- Let's see the problem mentioned at the top
- Tries on Numbers Standard Thing
- New problem given a list of positive integers, find the maximum xor of any two numbers. (Maximum XOR of Two Numbers in an Array)
- Code
- Bonus problem Sum of Prefix Scores of Strings





stand of chi starts

int int starts

(K)

rac.

insert (word) -> void

count (word) -> int

stants With (word) -> int

struct {

int contstant > I went through

int cont End > while insenting

while insenting

some word

struct TrieNode {

int cntstart = 0;

int cnt End = 0;

TrieNode \* thildren[26];

NULL

owerant

a. . . .

o 0000

Birond

cntstarr cntfrd 26 DFS

0000 MONTH MANNEY check if node exist

if not, then weat

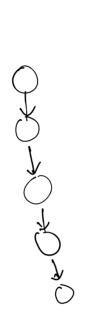
go to that node

cont stout tti)

cont stout tti)

cont Endtti) rat simplest way delete rate Data Stoudure erase of \*

erase (wood & (word) ==0)
if (wunt(word) =return;



Homework

stack

if (intstart===0)

delete node

ist of strings

for each string word (word);
for each query;
for each query;
trie. stants with (word);

T-vies on Numbery

· + digit

int digit 572 char 17 10.001 100 H 11 11 1011 1011 (e17 64 bits 1011 < 1e9, -> 32

000----0111 32 bits 17 binary no. of 32 bits Assay of integgets 11 22 27 13 --1011

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