

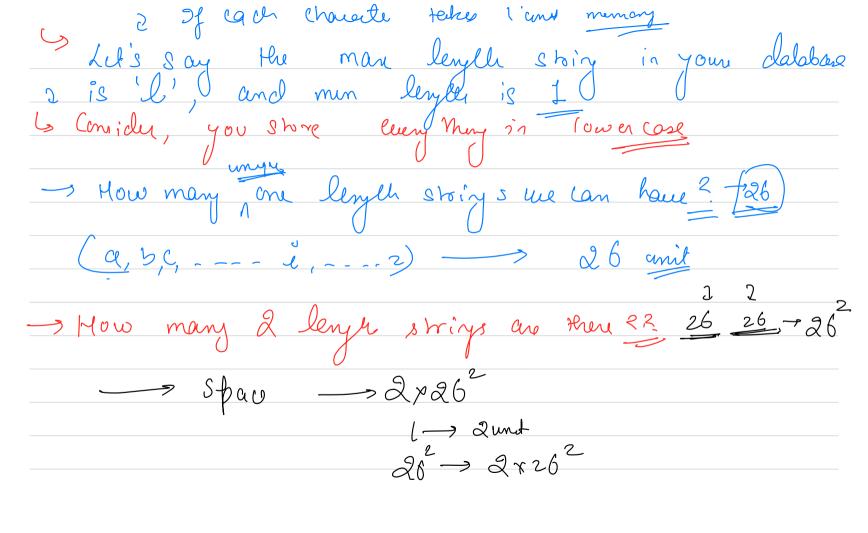
5 Common feature Autocomplete Potter - laisu. 1 -> Gob. -> Sam -> Sannell - Sanket > Sahil

Acc. to students String matching Mashing New Data Structure — TRIE
Stoing Matching
Us Magning
New Data Structure - TRIE

(1) String Marching -> Cuuen a tent and a fattern La Let's say un Date shore when we shore all no moures of amaren frinc. & me haw Poral N'movie length of name of any movie is l.

N x (l + l) = fer one search

(1) Use Hashing > Use hash tables (key, value) uses the mechanism of Hashing Crenerally for shoring or search a hash table ()
we repure O (length of 8 to ; y) fer storing or search a String in N string in HT, to search any or string If you have you repur to (legle of stoig) -> fer one quen



-> Ileyth strong space -> 1x26 2 leylu string span - 2 ~ 262 26 26 26 3 lenglu strig space = 3x263 $\frac{3}{1}$ I lyk strij space - 1 x 26° lotal space → 1x26 + 2x26 + 3x26 ----- lx26 In asymptotic > Space complety - so(lx26)

analyzer

Inode - lut no barent O - Samler - Sanket 26 - sahil 2 Saharsh Samyak mohit moham -terminal Char, no de* Trie is a prefur toll -> That means it is a hicrarchy based date stoulier. -> Pris is an n-ary bree one paret car have nobeld Trie is space aptimized

$$Spu+26+26^{2}+26^{3}+---26^{3}$$

$$O(26^{3})$$

$$T_{8}$$

