TRIE

video - 4

It will no longer be a scary topic.

Leetcode - 3093

Hard

@codestorywithmik

(Instagram, Facebook)

cswithMIK → Twitter

codestorywithMIK → whatsapp

3093. Longest Common Suffix Queries

xabc, dabc, feabc

abc

Hard | Companies | Hint

You are given two arrays of strings `wordsContainer` and `wordsQuery`.

For each `wordsQuery[i]`, you need to find a string from `wordsContainer` that has the **longest common suffix** with `wordsQuery[i]`. If there are two or more strings in `wordsContainer` that share the longest common suffix, find the string that is the **smallest** in length. If there are two or more such strings that have the **same** smallest length, find the one that occurred **earlier** in `wordsContainer`.

Return *an array of integers* `ans`, *where* `ans[i]` *is the index of the string in* `wordsContainer` *that has the* ***longest common suffix*** *with* `wordsQuery[i]`.

Example:- wordscontainer = {"abcd", "bcd", "xbcd"}

wordsquery = {"cd", "bcd", "xyz"}

Output = {1, 1, 1}

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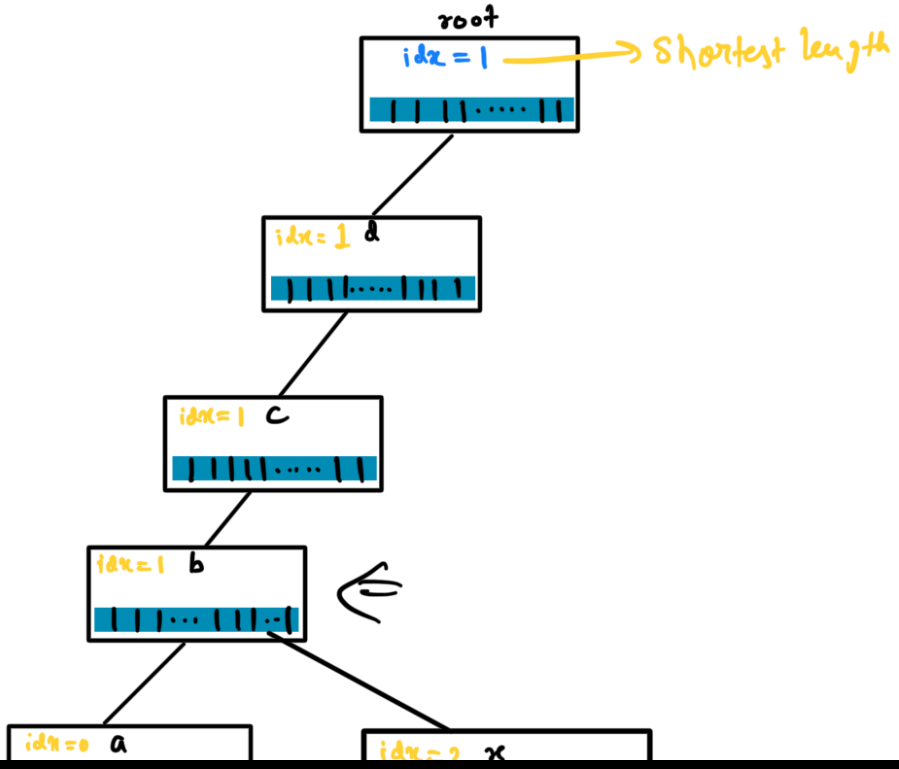
Thought Process :-

"Prefix/Suffix in multiple strings" → TRIE (Prefix Tree)

wordsContainer = {"abcd", "bcd", "xbcd"} (0, 1, 2)

wordsQuery = {"cd", "bcd", "xyz"} (i, i, i)

output = {1, 1, 1}



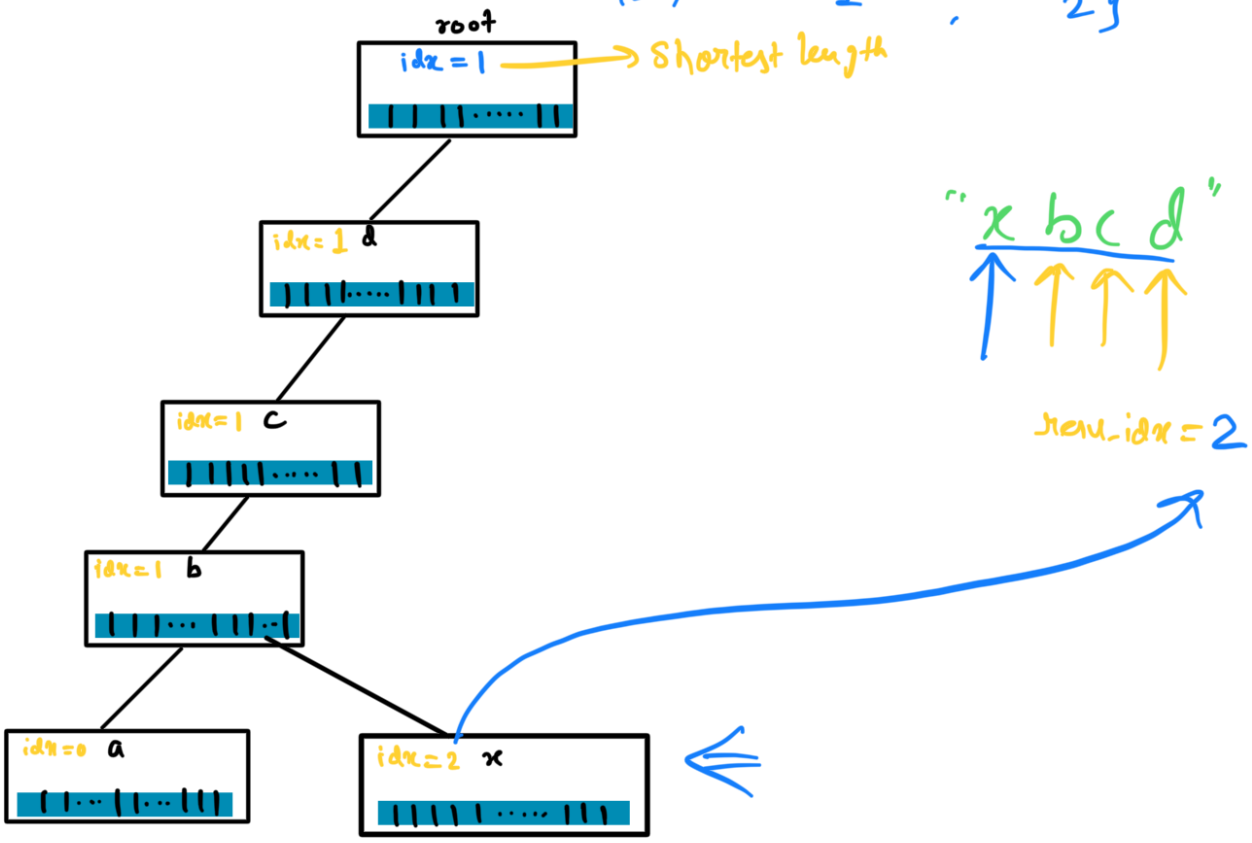
"xyz"

" "

Example =>

wordsContainer = {"abcd", "bcd", "xbcd"}

wordsQuery = {"cd", "bcd", "xbcd"}



Time & Space :-

Insert

Search

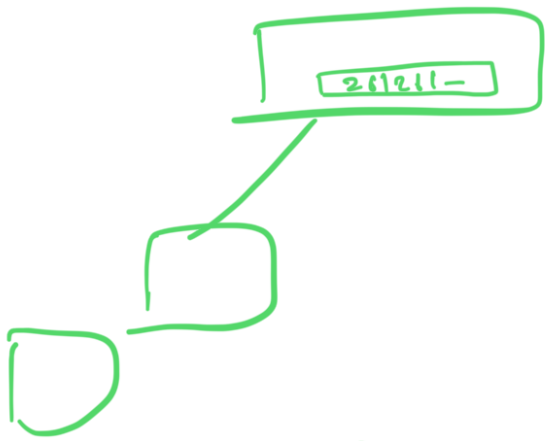
words container
≈ m chars

$O(m)$

$O(n)$

words query
≈ n chars

Space :-



$O(m)$.