Video 14 A Questions



HIGUI (Motivation) · When you don't Jeel

like studying, always

remember

thou you to get that job"

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· 1-D based DP]

we'll do:-() RECURSION

- · 2-D based DP
- . String based DP
- . Gyrid based DP
- · Game Strategy

- MEMOIZATION (Top Down)
- (1) Bottom Up.
- (1) Time & Space

1-D Based D.P.

> Fibonacci Number

> Climbing Stairs (N-stairs Problem)

> House Robber-I, II (Stickler thing)

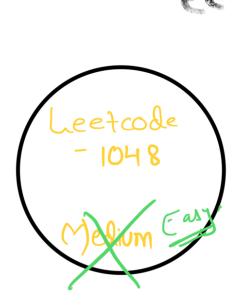
Jaximum Alternative Subsequence Sum.



(0) LIS (longest Increasing Subsequence.

Journals

- 1. Maximum Length Of Chain Pair. (video-13)
- 2. Longest String chain



Company Tags: Google

1048. Longest String Chain

• For example, abc is a predecessor of "abac" while "cba" is not a predecessor of "bcad".

A word chain is a sequence of words $[word_1, word_2, ..., word_k]$ with $k \ge 1$, where $word_1$ is a predecessor of $word_2$, $word_2$ is a predecessor of $word_3$, and so on. A single word is trivially a word chain with k = 1.

Return the length of the longest possible word chain with words chosen from the given list of words .

Example:-

words =
$$\begin{bmatrix} \text{"abcd", "abxcd", "ab.", "ab.", "abc"} \end{bmatrix}$$

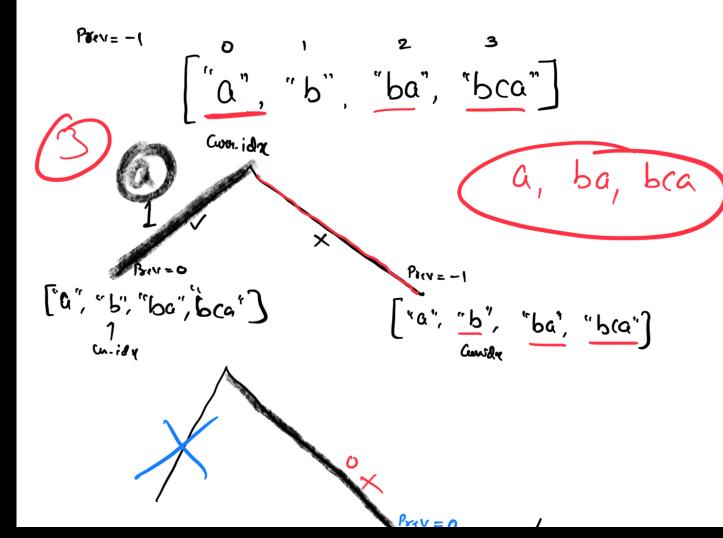
 $\longrightarrow \begin{bmatrix} \text{"a", "ab", "abc", "abcd", "abxcd"} \end{bmatrix}$
output = 5

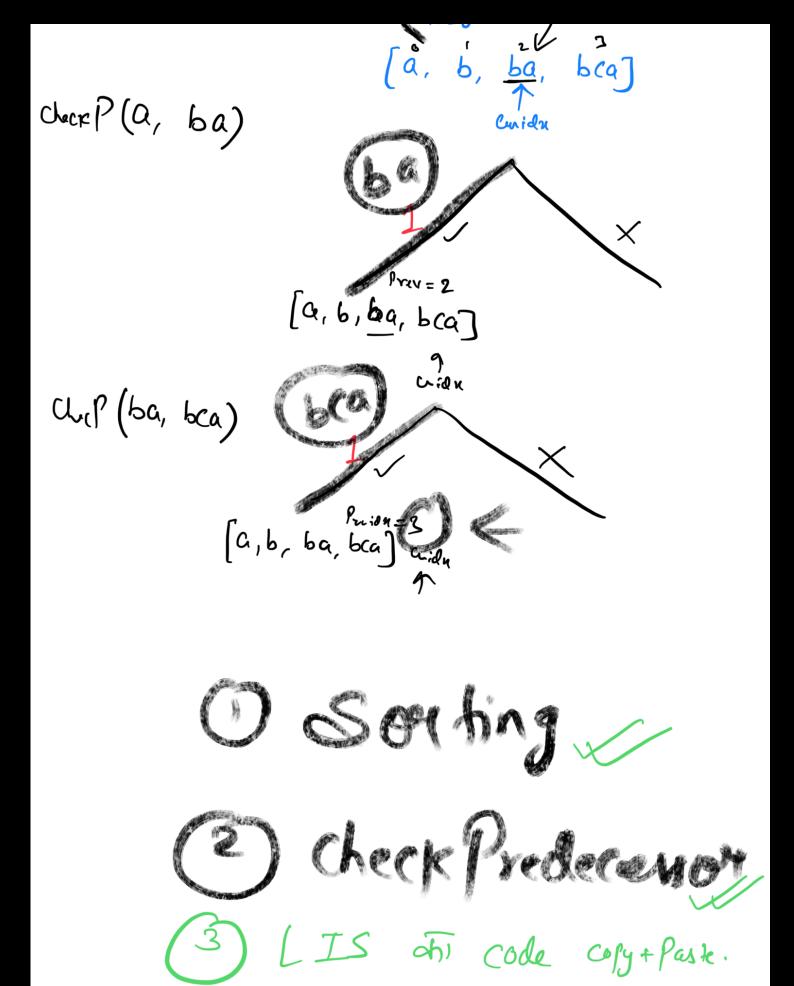


- (0) Sorting (based on rength)
- (*) Predecessor. (function).

length + Predecina

DRY RUN ...





Check Brede coron ("ab", "acb")

 $\frac{(i)}{(i)} \frac{(i)}{(i)} \frac{(i$

$$(n-m) = 1$$

$$i/(i = m)$$

$$i = m$$