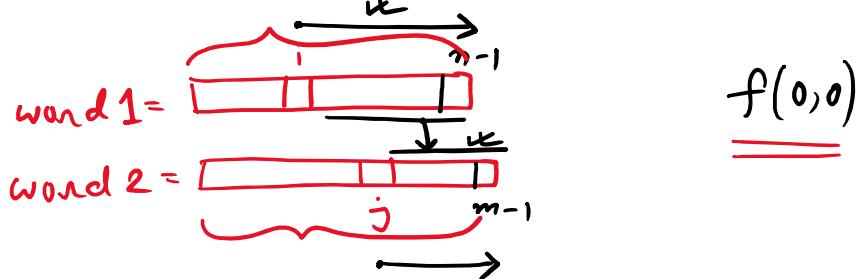


Edit distance

word1 = "ab xyz" ⑥
word2 = "ab xyz"
 $1 + 3 = \frac{⑨}{7}$

Defination

Definition
 $f(i, j) = \min_{\text{operations}} \text{operations to convert } \text{substr}(\text{word1}, i, N) \text{ to } \text{substr}(\text{word2}, j, M)$



Transition

word1 = paxby
word2 = pavayz

① word1[i] == word2[j]

$$\hookrightarrow f(i,j) = f(i+1,j+1)$$

② $\text{word1}[i] \neq \text{word2}[j]$

$$word1[i] \neq word2[j] \quad f(i, j) = \min \left\{ \begin{array}{l} 1 + f(i, j+1) \\ 1 + f(i+1, j+1) \\ 1 + f(i+1, j) \end{array} \right\}$$

Base Case

$$f(i, m) = n - i \rightarrow \text{Deletes}$$

$$f(N, j) = M - j \rightarrow \text{Inserts}$$

- pax by
- = parlez

- ① Insert
- ② Replace
- ③ Delete

- ① Insert
- ② Replace
- ③ Delete

I sent  word? =

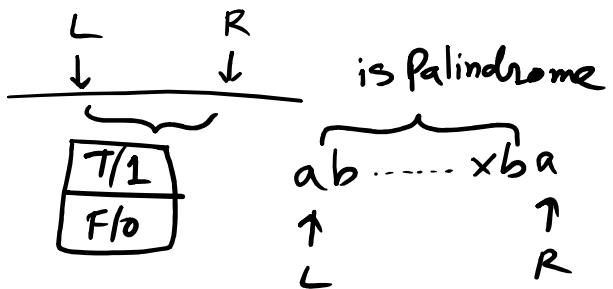
Insert word 2 =

$N = \lfloor \text{word1} \rfloor$

$$M = |word2|$$

Delete word 2 = para~~pa~~

$$f(L, R) = \text{True/False} \rightarrow 0/1$$



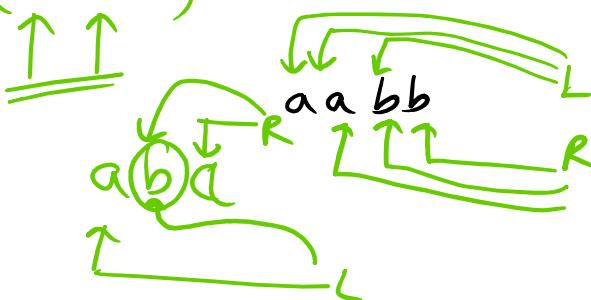
$$\textcircled{1} \ S[L] = S[R] \text{ and } f(L+1, R-1)$$

\textcircled{2} False

$$\text{MAX}(R-L+1)$$

$$L \geq R \rightarrow \text{True}$$

$$(L, R) \rightarrow 0/1$$



CV → Review

Company → Apply, LinkedIn

6 - 10 Months

Leetcode / P.S

Project → (1-2) Github

10 → 9 → 1 Month

100 → 65 → 6,7 Month

Thesis

Problem Solving

Projects → (1 - 2)

10 ↑ 5 ↑

OOP
Database

{ } (4:)

Networking and OS