DP 3 January

Week 2 Lecture 1 - 10 Feb

EDIT DISTANCE.

Given string A & B

A: anthiwan

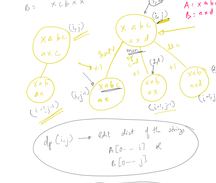
B: anthiwan

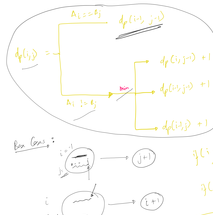
Goal is to convert A → B

Allowed to do 3 ops to opt in A.

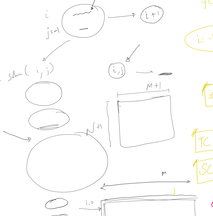
1. Insert a char
2. Delete a char
3. Replace a char.

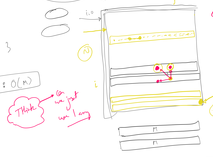
Find the min op req to achieve the goal!

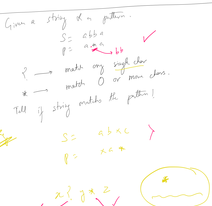




Base Cases:







Given a string & a pattern.

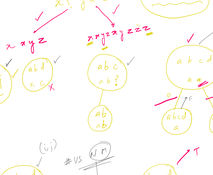
S: abba

P: a*b

? → match any single char.

* → match 0 or more chars.

Tell if string matches the pattern!


S: abbc
P: a*c
x*yz
x?yz
x?yz*zzz
*
(i,j)
N×M
TC: O(N'M')
O(N)
abbc
a*c
ab
a*
abc
a*c
ab?
a*c
abcd
a*
abcd
a
abc
a
ab
a
a
a