Longest Common Subsequence
Given two strings or by Find the longest common subsequence.
Eg:
a: abbababa
b: pabbabc
bba is a common subsequence.
V
Target: Worst-Conse O(12)
$TL_{\alpha} \setminus CS \cap L_{\alpha} + V$
The LCS Algrothin:
$1. L(S(\infty, \Lambda) = \Lambda$
3. LCS(N,b) = N $3. LCS(N,b) = LCS(N,b) = N$
4. LCS(QQ,bb) where Q xb = max { LCS(Q,bb), LCS(QQ,b)}
Visualized:
X
a,b, aa,b
abb = aabb
O(2) Speed O(n2) Speed
Recursion:
Repeats jobs
$\bigcap_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j$
Dévouis brodrouving.
Never repeat a job