

- HW 4 posted Due Oct 9th 4⁴⁰
in class.

1. Programming Assignment

2. Hand-in problem.

- Final Exam

Mon at ~4⁰⁰ pm

Longest Common Subsequence.

Input: two sequences

$$X = \langle x_1, \dots, x_m \rangle$$

$$Y = \langle y_1, \dots, y_n \rangle.$$

$c[i, j]$ = length of the LCS of X_i and Y_j

$$c[i, j] = \begin{cases} 0 & \text{if } i=0 \text{ or } j=0. \\ c(i-1, j-1) + 1 & \text{if } i>0 \text{ and } j>0 \\ & \text{and } x_i = y_j \\ \max(c(i-1, j), c(i, j-1)) & \text{if } i>0 \text{ and } j>0 \\ & \text{and } x_i \neq y_j \end{cases}$$