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Black Board

Design and Analysis of Algorithms

Topics:

- Dynamic Programming V
- THE LONGEST COMMON SUBSEQUENCE PROBLEM

The LCS Problem

- **Input:** Two strings X and Y or lengths m and n respectively.
- **Output:** The Longest Common Subsequence between X and Y

Some Examples

$X = \text{SPRINGTIME}$ $X = x_1 x_2 x_3 \dots x_m$ $|X| = m$
 $Y = \text{PIONEER}$ $Y = y_1 y_2 y_3 \dots y_n$ $|Y| = n$



