

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Department of Computer Science and Engineering

CSE 204 Offline Assignment on Dynamic Programming

In this assignment you will have to implement the **Longest Common Subsequence (LCS)** problem. In mathematics, a subsequence is a sequence that can be derived from another sequence by deleting some or no elements without changing the order of the remaining elements. For example, the sequence $\langle ABD \rangle$ is a subsequence of $\langle ABCDEF \rangle$ obtained after removal of elements C , E , and F . The relative order of the elements remains invariant.

The input will have two lines, one for each sequence. You will have to print as output their LCS. A sample is given below for easier understanding.

Input	Output
ABCBDAE	BCBA
BDCABA	

Table 1: A sample input and corresponding output

And don't copy :)