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Name: Lavest K. Jahn, Class: TE-IT, Roll No. A-38 1D: TU 4F1920033, Exam: IAT-2, Subject: APSA. 83. B. The longest common subsequence problem is the problem of finding the longest subsequence common to all sequence in a set of sequences, provided that the elements of the subsequence are not required to occupy conscrutive positions within the original requerces. For example: There are two strings say, SI and S2 such that S1 = { B, C, D, A, A, C, D3. S2 = {A, C, D, B, A, C} The, common subsequences are \$ B, C3, \$ C, D, A, C3, \$ D, A, C3, \$ A, A, C3, \$ A, C3, \$ C, D 3 Among there subsequences, & C, D, A, Cy is the longert Common subsequence. To find LCS for the following strings string 1 = "abcdhe" String 2 = "aedfor", we we dynamic programming, 0 0 0 h So now if we backfrace and check we get the FOR EDUCATIONAL USE Sundaram

1x 10/2021	Name: Lavesh K. Jasu, Class: TE-IT, Roll No: A-38 ID: TU4F1920033, Exam: IAT-2, Subject: ADSA PAGE: 3/3
	longert common subsequence as
	h (from 3) d (from 2)
	a (from 1)
•	length is 3.
1	
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