

LONGEST COMMON SUBSEQUENCE BY DYNAMIC PROGRAMMING METHOD SOLUTION/COMPUTATION

	S1	A	B	C	D	G	H					
S2	0	0	0	0	0	0	0	0	0	0	0	0
A	0	1D	1L	1L	1L	1L	1L					
E	0	1U	1L	1L	1L	1L	1L					
D	0	1U	1L	1L	2D	2L	2L					
F	0	1U	1L	1L	2U	2L	2L					
H	0	1U	1L	1L	2U	2L	3D					
R	0	1U	1L	1L	2U	2L	3U					
	0											
	0											
	0											
	0											
	0											

D	CHARACTERS MATCHED	DIAGONAL VALUE ADDITION
L	NOT MATCHED	MAXIMUM (U,L)
U	NOT MATCHED	MAXIMUM (U,L)

1

L	DEFAULT	FOR SAME VALUES
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S1 ABCDGH

S2 AEDFHR

ANSWER:

LCS STRING ADH

LCS LENGTH 3