Example Run for LCS Algorithm

{a, b, c, d} alphabet

i

1 2 3 4 5 6 7 8 9 10 11 12
b a d c b b c b d d c a

c b d d a a c a b b a
1 2 3 4 5 6 7 8 9 10 11

j ↑

c b d d c a

Longest common subsequence (LCS)

length of longest common subsequence of the given two sequences = 6

j\i	0	1	2	3	4	5	6	7	8	9	10	11	12	13
11	0	1	2	2	3	4	5	5	5	5	5	5	6	
10	0	1	2	2	3	4	5	5	5	5	5	5	6	
9	0	1	2	2	3	4	4	4	4	4	4	5	6	
8	0	1	2	2	3	3	3	3	3	3	4	5	6	
7	0	1	2	2	3	3	3	3	3	3	4	5	5	
6	0	1	2	2	2	2	2	2	3	4	4	5		
5	0	1	2	2	2	2	2	2	3	4	4	5		
4	0	1	1	2	2	2	2	2	3	4	4	4		
3	0	1	1	2	2	2	2	2	3	3	3	3		
2	0	1	1	1	2	2	2	2	2	2	2	2		
1	0	0	0	0	1	1	1	1	1	1	1	1	1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	

i →