

LCS

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
a	0	<u>1</u>	1	1	<u>2</u>	2	2	2	2	2	2	2	2	2	2
b	0	1	1	1	2	<u>3</u>	3	3	3	3	3	3	3	3	3
c	0	1	1	1	2	3	3	3	<u>4</u>	4	4	4	4	4	4
d	0	1	1	1	2	3	3	3	4	4	4	<u>5</u>	5	5	5
b	0	1	1	1	2	3	3	3	4	4	4	<u>5</u>	5	5	5
a	0	1	2	2	2	3	4	4	4	5	5	5	<u>6</u>	6	6

length: 6

LCS: abcdba

Brute Force

a	a	a	b	c	a	a	d	a	a	b	a	a	a
1	2	<u>3</u>	a	a	a	a	a	a	a	a	a	a	a
a	a	b	a	a	a	a	a	a	a	a	a	a	a
	4	5	6	<u>7</u>	a	a	a	a	a	a	a	a	a
	a	a	b	a	a	a	a	a	a	a	a	a	a
		8	<u>9</u>	a	a	a	a	a	a	a	a	a	a
		a	a	b	a	a	a	a	a	a	a	a	a
			<u>10</u>	a	a	a	a	a	a	a	a	a	a
			a	a	a	a	a	a	a	a	a	a	a
				<u>11</u>	a	a	a	a	a	a	a	a	a
				a	a	a	a	a	a	a	a	a	a
				12	13	<u>14</u>	a	a	a	a	a	a	a
				a	a	b	a	a	a	a	a	a	a
					15	<u>16</u>	a	a	a	a	a	a	a
					a	a	b	a	a	a	a	a	a
						<u>17</u>	a	a	a	a	a	a	a
						a	b	a	a	a	a	a	a
							18	19	20	21	22	23	24

# Boger-Moore

a a a b c a a d a a b a a a  
2 1  
 a a b a a a

a a b a a 3  
 9 8 7 6 5 4  
 a a b a a a  
 a a b a a a

# KNUTH - Morris - Pratt

a	a	a	b	c	a	a	d	a	a	b	a	a	a
1	2	<u>3</u>											
a	a	b	a	a	a								
		4	<u>5</u>										
		a	a	b	a	a	a						
			<u>6</u>		a	b	a	a	a				
				<u>7</u>									
				a	a	b	a	a	a				
					8	9	<u>10</u>						
					a	a	b	a	a	a			
							<u>11</u>						
							a	b	a	a	a		
							12	13	14	15	16	17	
							a	a	a	a	a	a	

0 1 2 3 4 5  
 P(Lj) a a b a a a  
 F(Lj) 0 0 0 1 2 2