Find the longest common subsequence of below strings.:

$X = \langle 1, 0, 0, 1, 1, 0 \rangle$

$Y = \langle 0, 1, 0, 0, 1, 1 \rangle$

Solution:

	y_j	0	1	0	0	1	1
x_i		0	0	0	0	0	0	0
1		0	0	1	1	1	1	1
0		0	1	1	2	2	2	2
0		0	1	1	2	3	3	3
1		0	1	2	2	3	4	4
1		0	1	2	2	3	4	5
0		0	1	2	3	3	4	5

Notes:

$a \leftarrow \max(a, b)$ if $x \neq y$ (b above)

$a \leftarrow a + 1$ if $x = y$ (a diagonal)

Ans: 10011 ($= 19$) is the longest common subsequence str