

X = A B C B D A

Y = B D C A B A

3 casi

$j == 0$ or $i == 0 \rightarrow 0$ (caso base)

$\text{LCS}(X, Y, i, j) = X[i] == Y[j] \rightarrow \text{LCS}(X, Y, i - 1, j - 1) + 1$

$X[i] != Y[j] \rightarrow \text{MAX}\{ \text{LCS}(X, Y, i, j - 1), \text{LCS}(X, Y, i - 1, j) \}$

		0	1	2	3	4	5	6
		Xi	A	B	C	B	D	A
0	Yj		0	0	0	0	0	0
1	B	0	0	1	1	1	1	1
2	D	0	0	1	1	1	2	2
3	C	0	0	1	2	2	2	2
4	A	0	1	1	2	2	2	3
5	B	0	1	2	2	3	3	3
6	A	0	1	2	2	3	3	4