i	j →	1	2	3	4
	y_j	**A**	**B**	**C**	**D**
↓	x_i	0	0	0	0
1	**B**	0	1	1	1
2	**D**	0	1	1	2
3	**C**	0	1	2	2
4	**B**	0	1	2	2
5	**A**	1	1	2	2
6	**D**	1	1	2	3

$$c[i,j] = \begin{cases} 0 & i = 0 \text{ or } j = 0 \\ c[i-1, j-1] + 1 & i, j > 0 \text{ and } x_i = y_j \\ \max(c[i, j-1], c[i-1, j]) & i, j > 0 \text{ and } x_i \neq y_j \end{cases}$$

$x_i = y_j \Rightarrow c[i,j] = c[i-1, j-1] + 1$ ↖

$x_i \neq y_j \Rightarrow c[i-1, j] \geq c[i, j-1]$

$c[i,j] = c[i-1, j]$ ↑

$c[i-1, j] < c[i, j-1]$

$c[i,j] = c[i, j-1]$ ←

{B, C, D}