	j	\rightarrow	1	2	3	4
i		Уj	A	В	C	D
\downarrow	Xi					
1	В					
2	D					
3	C					
4	В					
5	A					
6	D					

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

$$x_{i} = y_{j} \Rightarrow c[i, j] = c[i-1, j-1] + 1$$

$$x_{i} \neq y_{j} \Rightarrow c[i-1, j] \geq c[i, j-1]$$

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

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

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