$$bc \rightarrow \overset{a}{\vee} bc \rightarrow abc$$

$$bbc \rightarrow \overset{a}{\not{b}}bc \rightarrow abc$$

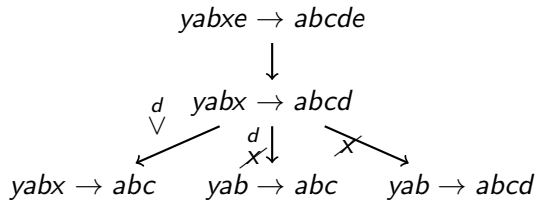$$xabc \rightarrow \cancel{x}abc \rightarrow abc$$

$$xbc \rightarrow \overset{a}{\cancel{x}}bc \rightarrow abc$$

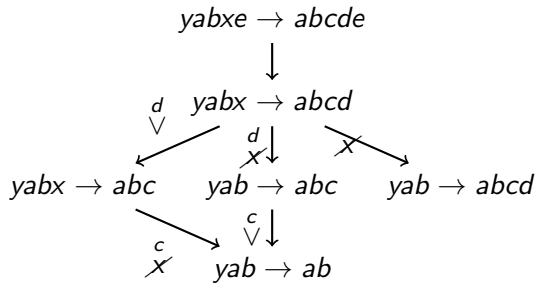$yabxe \rightarrow abcde$

$$yabxe \rightarrow abcde$$
$$\downarrow$$
$$yabx \rightarrow abcd$$

$$yabxe \rightarrow abcde$$

$$\downarrow$$

$$yabx \rightarrow abcd$$

$$yabx \rightarrow abc \qquad yab \rightarrow abc \qquad yab \rightarrow abcd$$

$$yabxe \rightarrow abcde$$

$$\downarrow$$

$$\overset{d}{\vee} \quad yabx \rightarrow abcd$$

$$\overset{d}{\underset{x}{\downarrow}} \qquad \overset{x}{\diagup}$$

$$yabx \rightarrow abc \qquad yab \rightarrow abc \qquad yab \rightarrow abcd$$

$$\overset{c}{\underset{x}{\diagdown}} \qquad \overset{c}{\underset{\vee}{\downarrow}}$$

$$yab \rightarrow ab$$

$yabxe \rightarrow abcde$

$\downarrow$

$\overset{d}{\vee}$ $yabx \rightarrow abcd$

$\overset{d}{\underset{\cancel{x}}{\downarrow}}$ $\cancel{x}$

$\overset{c}{\vee}, \cancel{x}$ $yabx \rightarrow abc$ $yab \rightarrow abc$ $yab \overset{c}{\hookrightarrow} abcd$ $\overset{d}{\cancel{b}}, \cancel{b}$ $\overset{d}{\cancel{b}}, \cancel{b}, \overset{d}{\vee}$

$\overset{c}{\cancel{x}}$ $yab \rightarrow ab$ $\overset{c}{\vee} \downarrow$

... ...

$$yabxe \rightarrow abcde$$

$$\downarrow$$

$$\overset{d}{\vee} \quad yabx \rightarrow abcd$$

$$\overset{d}{\underset{\not{x}}{\downarrow}} \qquad \overset{\not{x}}{\searrow}$$

$$\overset{c}{\underset{\vee, \not{x}}{}} \quad yabx \rightarrow abc \qquad yab \rightarrow abc \qquad yab \overset{c}{\hookrightarrow} abcd \qquad \overset{d}{\not{b}, \not{b}, \overset{d}{\vee}}$$

$$\underset{\not{b}, \not{b}}{}$$

$$\swarrow \qquad \overset{c}{\underset{\not{x}}{\searrow}} \quad yab \rightarrow ab \qquad \searrow \qquad \searrow$$

$$\cdots \qquad\qquad\qquad\qquad \cdots \qquad\qquad \cdots$$

$$\downarrow$$

$$ya \rightarrow a$$

$$\downarrow$$

$$y \rightarrow_{\sqcup}$$

$$y \downarrow$$

$$_{\sqcup} \rightarrow_{\sqcup}$$

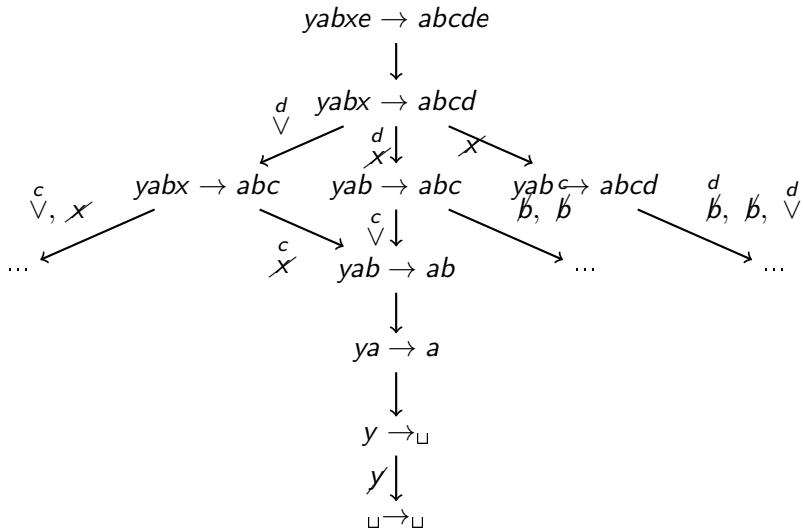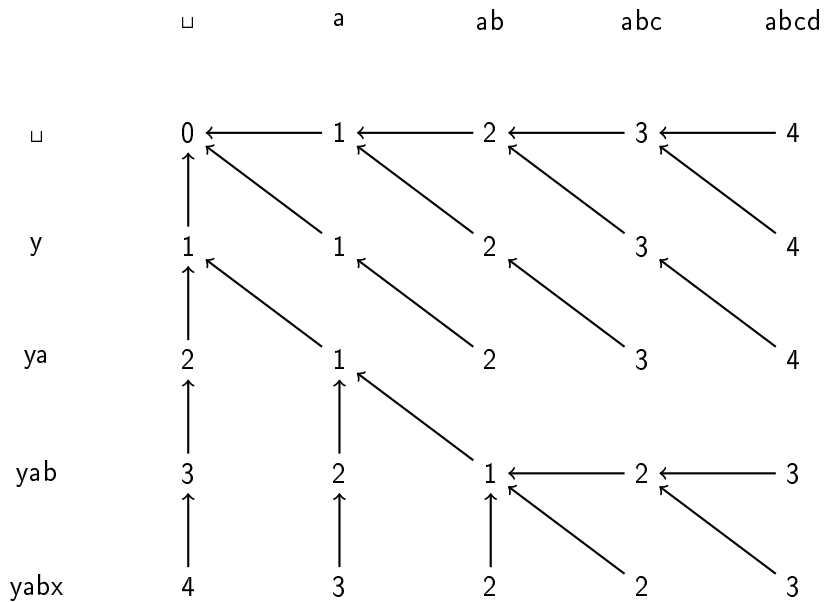|	␣	a	ab	abc	abcd
␣	0	1	2	3	4
y	1	1	2	3	4
ya	2	1	2	3	4
yab	3	2	1	2	3
yabx	4	3	2	2	3
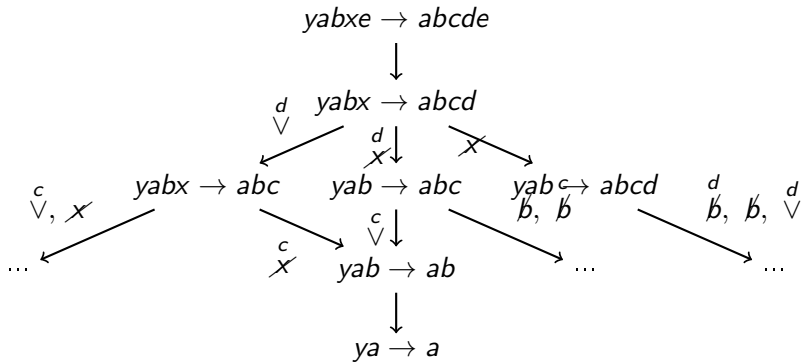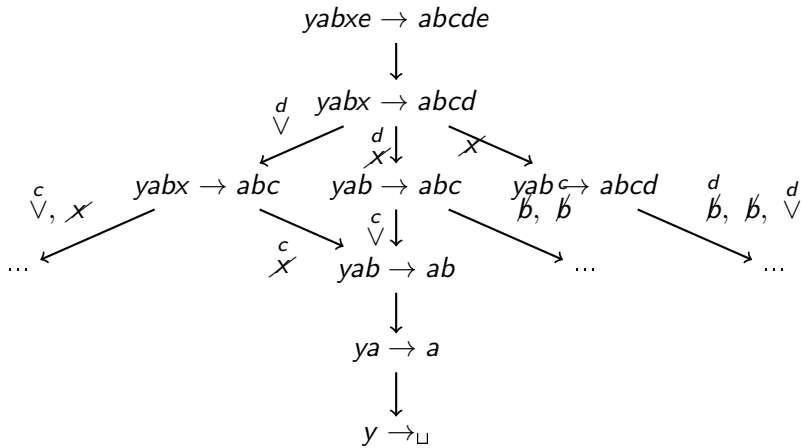
$$OPT(i,j) = \begin{cases} OPT(i-1, i-1), \text{ при } s_1[i] = s_2[j] \\ \min \begin{cases} 1 + OPT(i-1, j) \\ 1 + OPT(i-1, j-1) \\ 1 + OPT(i, j-1) \end{cases} \end{cases}$$

$$OPT(i,j) = \begin{cases} OPT(i-1, i-1), \text{ при } s_1[i] = s_2[j] \\ \min \begin{cases} w_i + OPT(i-1, j) \\ w_r + OPT(i-1, j-1) \\ w_d + OPT(i, j-1) \end{cases} \end{cases}$$