======================== Ярус 0 ================================ — Множества модели процесса

${}^{0}A_0 = \{a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9, a_{10}, a_{11}, a_{12}, a_{13}, a_{14}, a_{15}, a_{16}, a_{17}, a_{18}, a_{19}, a_{20}, a_{21}, a_{22}, a_{23}, a_{24}, a_{25}, a_{26}, a_{2}$
${}^{*}A_0 = \{a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8\}$
${}^{+}A_0 = \{a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8\}$
${}^{p}A_0 = \{a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8\}$
${}^{-}A_0 = \varnothing$

– Операции по арностям

– Условия проверки арности

– Текущий ярус: $\{\mathrm{a}_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8\}$ –

–Множества W

$$\left(W_1\right)_0 = \{28\}$$
$$\left(W_2\right)_0 = \{29\}$$
$$\left(W_3\right)_0 = \{30\}$$
$$\left(W_4\right)_0 = \{31\}$$
$$\left(W_5\right)_0 = \{32\}$$
$$\left(W_6\right)_0 = \{33\}$$
$$\left(W_7\right)_0 = \{10, 13, 17, 21, 25\}$$
$$\left(W_8\right)_0 = \{11\}$$

===

======================== Ярус 1 ================================ — Мно-

жества модели процесса

$$^{0}A_1 = \{a_9, a_{10}, a_{11}, a_{12}, a_{13}, a_{14}, a_{15}, a_{16}, a_{17}, a_{18}, a_{19}, a_{20}, a_{21}, a_{22}, a_{23}, a_{24}, a_{25}, a_{26}, a_{27}, a_{28}, a_{29}, a_{30}, a_{31}, a_{32}, a_{33}$$

$$^{*}A_1 = \{a_9, a_{10}, a_{13}, a_{17}, a_{21}, a_{25}\}$$

$$^{+}A_1 = \{a_9, a_{10}, a_{13}, a_{17}, a_{21}, a_{25}\}$$

$$^{p}A_1 = \{a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9, a_{10}, a_{13}, a_{17}, a_{21}, a_{25}\}$$

$$^{-}A_1 = \{a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8\}$$

– Операции по арностям 0: $\{a_9\}$

1: $\{a_{10}, a_{13}, a_{17}, a_{21}, a_{25}\}$ –

– Условия проверки арности Для арности 0: $\left\{ \bigcup(\varnothing)_0 = \{9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,\right.$

Для арности 1: $\left\{ \bigcup_{i}^{8}(W_i)_0 = \{10, 11, 13, 17, 21, 25, 28, 29, 30, 31, 32, 33\}\right.$

– Текущий ярус: $\{a_9, a_{10}, a_{13}, a_{17}, a_{21}, a_{25}\}$ –

–Множества W

$$\left(W_1\right)_1 = \{14, 28\}$$

$$\left(W_2\right)_1 = \{11\}$$

$$\left(W_3\right)_1 = \{14\}$$

$$\left(W_4\right)_1 = \{18\}$$

$$\left(W_5\right)_1 = \{22\}$$

$$\left(W_6\right)_1 = \{26\}$$

==

======================== Ярус 2 ================================ — Мно-

жества модели процесса

$$^{0}A_2 = \{a_{11}, a_{12}, a_{14}, a_{15}, a_{16}, a_{18}, a_{19}, a_{20}, a_{22}, a_{23}, a_{24}, a_{26}, a_{27}, a_{28}, a_{29}, a_{30}, a_{31}, a_{32}, a_{33}, a_{34}\}$$
$$^{*}A_2 = \{a_{11}, a_{14}, a_{28}\}$$
$$^{+}A_2 = \{a_{11}, a_{14}, a_{28}\}$$
$$^{p}A_2 = \{a_9, a_{10}, a_{13}, a_{17}, a_{21}, a_{25}, a_{11}, a_{14}, a_{28}\}$$
$$^{-}A_2 = \{a_9, a_{10}, a_{13}, a_{17}, a_{21}, a_{25}\}$$

– Операции по арностям 2: $\{a_{11}, a_{14}, a_{28}\}$

– Условия проверки арности Для арности 2: $\begin{cases} \bigcup\limits_{i,l}^{6,6}(W_i \cap W_l)_1 = \{14\} \\ \left[\bigcup\limits_{i}^{6}(W_i)_1\right] \cap \left[\bigcup\limits_{i}^{8}(W_i)_0\right] = \{11, 28\} \end{cases}$

– Текущий ярус: $\{a_{11}, a_{14}, a_{28}\}$

–Множества W

$$\Big(W_1\Big)_2 = \{12, 16, 18, 20, 24, 29\}$$
$$\Big(W_2\Big)_2 = \{15\}$$
$$\Big(W_3\Big)_2 = \{34\}$$

Ярус 3 — Множества модели процесса

$$^{0}A_3 = \{a_{12}, a_{15}, a_{16}, a_{18}, a_{19}, a_{20}, a_{22}, a_{23}, a_{24}, a_{26}, a_{27}, a_{29}, a_{30}, a_{31}, a_{32}, a_{33}, a_{34}\}$$
$$^{*}A_3 = \{a_{12}, a_{18}, a_{29}\}$$
$$^{+}A_3 = \{a_{12}, a_{18}, a_{29}\}$$
$$^{p}A_3 = \{a_{11}, a_{14}, a_{28}, a_{12}, a_{18}, a_{29}\}$$
$$^{-}A_3 = \{a_{11}, a_{14}, a_{28}\}$$

– Операции по арностям 1: $\{a_{12}\}$

2: {a$_{18}, a_{29}$} –

– Условия проверки арности Для арности 1: $\left\{\bigcup_{i}^{3}(W_i)_2 = \{12, 15, 16, 18, 20, 24, 29, 34\}\right.$

Для арности 2: $\begin{cases} \bigcup_{i,l}^{3,3}(W_i \cap W_l)_2 = \varnothing \\ \bigcup_{p}\left(\bigcup_{i}^{3}(W_i)_2 \cap \bigcup_{i}^{6}(W_i)_p\right) = \{18, 29\} \end{cases}$ ————————————————————

– Текущий ярус: {a$_{12}, a_{18}, a_{29}$} –

–Множества W

$$\left(W_1\right)_3 = \{15\}$$
$$\left(W_2\right)_3 = \{19\}$$
$$\left(W_3\right)_3 = \{34\}$$

————————————————————————————=== Ярус 4 ===================================== — Множества модели процесса

$$
\begin{aligned}
{}^{0}A_4 &= \{a_{15}, a_{16}, a_{19}, a_{20}, a_{22}, a_{23}, a_{24}, a_{26}, a_{27}, a_{30}, a_{31}, a_{32}, a_{33}, a_{34}\} \\
{}^{*}A_4 &= \{a_{15}\} \\
{}^{+}A_4 &= \{a_{15}\} \\
{}^{p}A_4 &= \{a_{12}, a_{18}, a_{29}, a_{15}\} \\
{}^{-}A_4 &= \{a_{12}, a_{18}, a_{29}\}
\end{aligned}
$$

————————————————————————————

– Операции по арностям 2: {a$_{15}$} –

– Условия проверки арности Для арности 2: $\begin{cases} \bigcup_{i,l}^{3,3}(W_i \cap W_l)_3 = \varnothing \\ \bigcup_{p}\left(\bigcup_{i}^{3}(W_i)_3 \cap \bigcup_{i}^{3}(W_i)_p\right) = \{15, 34\} \end{cases}$ — ————————————————————————

– Текущий ярус: {a$_{15}$} –

–Множества W

$$\left(W_1\right)_4 = \{16, 22, 30\}$$

========================= Ярус 5 ================================ — Множества модели процесса

$$
\begin{aligned}
{}^{0}A_5 &= \{a_{16}, a_{19}, a_{20}, a_{22}, a_{23}, a_{24}, a_{26}, a_{27}, a_{30}, a_{31}, a_{32}, a_{33}, a_{34}\} \\
{}^{*}A_5 &= \{a_{16}, a_{22}, a_{30}\} \\
{}^{+}A_5 &= \{a_{16}, a_{22}, a_{30}\} \\
{}^{p}A_5 &= \{a_{15}, a_{16}, a_{22}, a_{30}\} \\
{}^{-}A_5 &= \{a_{15}\}
\end{aligned}
$$

– Операции по арностям 2: $\{\text{a}_{16}, a_{22}, a_{30}\}$ –

– Условия проверки арности Для арности 2: $\left\{\bigcup_p \left(\bigcup_i^1 (W_i)_4 \cap \bigcup_i^3 (W_i)_p\right) = \{16, 22, 30\}\right.$

– Текущий ярус: $\{\text{a}_{16}, a_{22}, a_{30}\}$ –

–Множества W

$$
\begin{aligned}
\Big(W_1\Big)_5 &= \{19\} \\
\Big(W_2\Big)_5 &= \{23\} \\
\Big(W_3\Big)_5 &= \{34\}
\end{aligned}
$$

========================= Ярус 6 ================================ — Множества модели процесса

$$
\begin{aligned}
{}^{0}A_6 &= \{a_{19}, a_{20}, a_{23}, a_{24}, a_{26}, a_{27}, a_{31}, a_{32}, a_{33}, a_{34}\} \\
{}^{*}A_6 &= \{a_{19}\} \\
{}^{+}A_6 &= \{a_{19}\} \\
{}^{p}A_6 &= \{a_{16}, a_{22}, a_{30}, a_{19}\} \\
{}^{-}A_6 &= \{a_{16}, a_{22}, a_{30}\}
\end{aligned}
$$

– Операции по арностям 2: $\{\text{a}_{19}\}$ –

– Условия проверки арности Для арности 2: $\begin{cases} \bigcup_{i,l}^{3,3} (W_i \cap W_l)_5 = \varnothing \\ \bigcup_p \left(\bigcup_i^3 (W_i)_5 \cap \bigcup_i^1 (W_i)_p \right) = \{19, 34\} \end{cases}$ —

– Текущий ярус: {a$_{19}$} –

–Множества W

$$\left(W_1\right)_6 = \{20, 26, 31\}$$

========================= Ярус 7 ================================ — Множества модели процесса

$$
\begin{aligned}
{}^0A_7 &= \{a_{20}, a_{23}, a_{24}, a_{26}, a_{27}, a_{31}, a_{32}, a_{33}, a_{34}\} \\
{}^*A_7 &= \{a_{20}, a_{26}, a_{31}\} \\
{}^+A_7 &= \{a_{20}, a_{26}, a_{31}\} \\
{}^pA_7 &= \{a_{19}, a_{20}, a_{26}, a_{31}\} \\
{}^-A_7 &= \{a_{19}\}
\end{aligned}
$$

– Операции по арностям 2: {a$_{20}$, a_{26}, a_{31}} –

– Условия проверки арности Для арности 2: $\left\{ \bigcup_p \left(\bigcup_i^1 (W_i)_6 \cap \bigcup_i^3 (W_i)_p \right) = \{20, 26, 31\} \right.$

– Текущий ярус: {a$_{20}$, a_{26}, a_{31}} –

–Множества W

$$
\begin{aligned}
\left(W_1\right)_7 &= \{23\} \\
\left(W_2\right)_7 &= \{27\} \\
\left(W_3\right)_7 &= \{34\}
\end{aligned}
$$

========================= Ярус 8 ================================ — Мно-

жества модели процесса

$$
\begin{aligned}
&{}^{0}A_8 = \{a_{23}, a_{24}, a_{27}, a_{32}, a_{33}, a_{34}\}\\
&{}^{*}A_8 = \{a_{23}\}\\
&{}^{+}A_8 = \{a_{23}\}\\
&{}^{p}A_8 = \{a_{20}, a_{26}, a_{31}, a_{23}\}\\
&{}^{-}A_8 = \{a_{20}, a_{26}, a_{31}\}
\end{aligned}
$$

– Операции по арностям 2: {a$_{23}$} –

– Условия проверки арности Для арности 2: $\begin{cases} \bigcup\limits_{i,l}^{3,3} (W_i \cap W_l)_7 = \varnothing \\ \bigcup\limits_{p} \left(\bigcup\limits_{i}^{3} (W_i)_7 \cap \bigcup\limits_{i}^{1} (W_i)_p \right) = \{23, 34\} \end{cases}$ —

– Текущий ярус: {a$_{23}$} –

–Множества W

$$\Big(W_1\Big)_8 = \{24, 32\}$$

== ======================== Ярус 9 ================================ — Множества модели процесса

$$
\begin{aligned}
&{}^{0}A_9 = \{a_{24}, a_{27}, a_{32}, a_{33}, a_{34}\}\\
&{}^{*}A_9 = \{a_{24}, a_{32}\}\\
&{}^{+}A_9 = \{a_{24}, a_{32}\}\\
&{}^{p}A_9 = \{a_{23}, a_{24}, a_{32}\}\\
&{}^{-}A_9 = \{a_{23}\}
\end{aligned}
$$

– Операции по арностям 2: {a$_{24}$, a_{32}} –

– Условия проверки арности Для арности 2: $\left\{ \bigcup\limits_{p} \left(\bigcup\limits_{i}^{1} (W_i)_8 \cap \bigcup\limits_{i}^{3} (W_i)_p \right) = \{24, 32\} \right.$ —

– Текущий ярус: $\{a_{24}, a_{32}\}$ –

–Множества W

$$\left(W_1\right)_9 = \{27\}$$
$$\left(W_2\right)_9 = \{34\}$$

======================== Ярус 10 ============================== — Множества модели процесса

$$^{0}A_{10} = \{a_{27}, a_{33}, a_{34}\}$$
$$^{*}A_{10} = \{a_{27}\}$$
$$^{+}A_{10} = \{a_{27}\}$$
$$^{p}A_{10} = \{a_{24}, a_{32}, a_{27}\}$$
$$^{-}A_{10} = \{a_{24}, a_{32}\}$$

– Операции по арностям 2: $\{a_{27}\}$ –

– Условия проверки арности Для арности 2: $\begin{cases} \bigcup\limits_{i,l}^{2,2}(W_i \cap W_l)_9 = \varnothing \\ \bigcup\limits_{p}\left(\bigcup\limits_{i}^{2}(W_i)_9 \cap \bigcup\limits_{i}^{1}(W_i)_p\right) = \{27, 34\} \end{cases}$ —

– Текущий ярус: $\{a_{27}\}$ –

–Множества W

$$\left(W_1\right)_{10} = \{33\}$$

======================== Ярус 11 ============================== — Множества модели процесса

$$^{0}A_{11} = \{a_{33}, a_{34}\}$$
$$^{*}A_{11} = \{a_{33}\}$$
$$^{+}A_{11} = \{a_{33}\}$$
$$^{p}A_{11} = \{a_{27}, a_{33}\}$$
$$^{-}A_{11} = \{a_{27}\}$$

– Операции по арностям 2: {a_{33}} –

– Условия проверки арности Для арности 2: $\left\{\bigcup_p \left(\bigcup_i^1 (W_i)_{10} \cap \bigcup_i^2 (W_i)_p \right) = \{33\}\right.$ ——

– Текущий ярус: {a_{33}} –

–Множества W

$$\left(W_1\right)_{11} = \{34\}$$

== Ярус 12 ==================================== — Множества модели процесса

$$^{0}A_{12} = \{a_{34}\}$$
$$^{*}A_{12} = \{a_{34}\}$$
$$^{+}A_{12} = \{a_{34}\}$$
$$^{p}A_{12} = \{a_{33}, a_{34}\}$$
$$^{-}A_{12} = \{a_{33}\}$$

– Операции по арностям 6: {a_{34}} –

– Условия проверки арности Для арности 6:
$$\begin{cases}
\bigcup_{p}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l,j,a,b}^{6,6,6,6,6}(W_i\cap W_l\cap W_j\cap W_a\cap W_b)_p\right)=\varnothing\\
\left[\bigcup_{i}^{1}(W_i)_{11}\right]\cap\left[\bigcup_{i,l,j,a}^{6,6,6,6}(W_i\cap W_l\cap W_j\cap W_a)_1\right]\cap\left[\bigcup_{i}^{8}(W_i)_0\right]=\varnothing\\
\bigcup_{p,h}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l,j}^{3,3,3}(W_i\cap W_l\cap W_j)_p\cap\bigcup_{i,l}^{3,3}(W_i\cap W_l)_h\right)=\varnothing\\
\bigcup_{p,h,y}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l,j}^{3,3,3}(W_i\cap W_l\cap W_j)_p\cap\bigcup_{i}^{1}(W_i)_h\cap\bigcup_{i}^{3}(W_i)_y\right)=\\
\bigcup_{p,h}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l}^{2,2}(W_i\cap W_l)_p\cap\bigcup_{i,l,j}^{3,3,3}(W_i\cap W_l\cap W_j)_h\right)=\varnothing\\
\bigcup_{p,h,y}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l}^{2,2}(W_i\cap W_l)_p\cap\bigcup_{i,l}^{3,3}(W_i\cap W_l)_h\cap\bigcup_{i}^{1}(W_i)_y\right)=\\
\bigcup_{p,h,y}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l}^{2,2}(W_i\cap W_l)_p\cap\bigcup_{i}^{1}(W_i)_h\cap\bigcup_{i,l}^{3,3}(W_i\cap W_l)_y\right)=\\
\bigcup_{p,h,y,u}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i,l}^{2,2}(W_i\cap W_l)_p\cap\bigcup_{i}^{1}(W_i)_h\cap\bigcup_{i}^{3}(W_i)_y\cap\bigcup_{i}^{1}(W_i)\right.\\
\bigcup_{p,h}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i,l,j,a}^{6,6,6,6}(W_i\cap W_l\cap W_j\cap W_a)_h\right)=\varnothing\\
\bigcup_{p,h,y}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i,l,j}^{3,3,3}(W_i\cap W_l\cap W_j)_h\cap\bigcup_{i}^{1}(W_i)_y\right)=\\
\bigcup_{p,h,y}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i,l}^{2,2}(W_i\cap W_l)_h\cap\bigcup_{i,l}^{3,3}(W_i\cap W_l)_y\right)=\\
\bigcup_{p,h,y,u}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i,l}^{2,2}(W_i\cap W_l)_h\cap\bigcup_{i}^{1}(W_i)_y\cap\bigcup_{i}^{3}(W_i)\right.\\
\bigcup_{p,h,y}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i}^{2}(W_i)_h\cap\bigcup_{i,l,j}^{3,3,3}(W_i\cap W_l\cap W_j)_y\right)=\\
\bigcup_{p,h,y,u}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i}^{2}(W_i)_h\cap\bigcup_{i,l}^{3,3}(W_i\cap W_l)_y\cap\bigcup_{i}^{1}(W_i)\right.\\
\bigcup_{p,h,y,u}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i}^{2}(W_i)_h\cap\bigcup_{i}^{1}(W_i)_y\cap\bigcup_{i,l}^{3,3}(W_i\cap W_l)\right.\\
\bigcup_{p,h,y,u,z}\left(\bigcup_{i}^{1}(W_i)_{11}\cap\bigcup_{i}^{1}(W_i)_p\cap\bigcup_{i}^{2}(W_i)_h\cap\bigcup_{i}^{1}(W_i)_y\cap\bigcup_{i}^{3}(W_i)_u\cap\bigcup\right.
\end{cases}$$

– Текущий ярус: $\{a_{34}\}$ –

–Множества W

$$\left(W_1\right)_{12}=\varnothing$$