Minimize T, subject to:

$$
\left\{
\begin{array}{rcll}
y_0^0 + y_1^0 + y_2^0 + y_3^0 + y_4^0 & = & 1 & \text{(row1)} \\
y_0^1 + y_1^1 + y_2^1 + y_3^1 + y_4^1 & = & 1 & \text{(row2)} \\
y_0^2 + y_1^2 + y_2^2 + y_3^2 + y_4^2 & = & 1 & \text{(row3)} \\
y_0^3 + y_1^3 + y_2^3 + y_3^3 + y_4^3 & = & 1 & \text{(row4)} \\
x_{0,0}^{0,1} - y_0^0 & \leq & 0 & \text{(row5)} \\
x_{0,1}^{0,1} - y_0^0 & \leq & 0 & \text{(row6)} \\
x_{0,2}^{0,1} - y_0^0 & \leq & 0 & \text{(row7)} \\
x_{0,3}^{0,1} - y_0^0 & \leq & 0 & \text{(row8)} \\
x_{0,4}^{0,1} - y_0^0 & \leq & 0 & \text{(row9)}
\end{array}
\right.
\tag{1}
$$

$$
\left\{
\begin{array}{rcll}
x_{1,0}^{0,1} - y_1^0 & \leq & 0 & \text{(row10)} \\
x_{1,1}^{0,1} - y_1^0 & \leq & 0 & \text{(row11)} \\
x_{1,2}^{0,1} - y_1^0 & \leq & 0 & \text{(row12)} \\
x_{1,3}^{0,1} - y_1^0 & \leq & 0 & \text{(row13)} \\
x_{1,4}^{0,1} - y_1^0 & \leq & 0 & \text{(row14)} \\
x_{2,0}^{0,1} - y_2^0 & \leq & 0 & \text{(row15)} \\
x_{2,1}^{0,1} - y_2^0 & \leq & 0 & \text{(row16)} \\
x_{2,2}^{0,1} - y_2^0 & \leq & 0 & \text{(row17)} \\
x_{2,3}^{0,1} - y_2^0 & \leq & 0 & \text{(row18)} \\
x_{2,4}^{0,1} - y_2^0 & \leq & 0 & \text{(row19)}
\end{array}
\right.
\tag{2}
$$

$$
\left\{
\begin{array}{rcll}
x_{3,0}^{0,1} - y_3^0 & \leq & 0 & \text{(row20)} \\
x_{3,1}^{0,1} - y_3^0 & \leq & 0 & \text{(row21)} \\
x_{3,2}^{0,1} - y_3^0 & \leq & 0 & \text{(row22)} \\
x_{3,3}^{0,1} - y_3^0 & \leq & 0 & \text{(row23)} \\
x_{3,4}^{0,1} - y_3^0 & \leq & 0 & \text{(row24)} \\
x_{4,0}^{0,1} - y_4^0 & \leq & 0 & \text{(row25)} \\
x_{4,1}^{0,1} - y_4^0 & \leq & 0 & \text{(row26)} \\
x_{4,2}^{0,1} - y_4^0 & \leq & 0 & \text{(row27)} \\
x_{4,3}^{0,1} - y_4^0 & \leq & 0 & \text{(row28)} \\
x_{4,4}^{0,1} - y_4^0 & \leq & 0 & \text{(row29)}
\end{array}
\right.
\tag{3}
$$

$$
\left\{
\begin{array}{rcll}
x_{0,0}^{0,2} - y_0^0 & \leq & 0 & \text{(row30)} \\
x_{0,1}^{0,2} - y_0^0 & \leq & 0 & \text{(row31)} \\
x_{0,2}^{0,2} - y_0^0 & \leq & 0 & \text{(row32)} \\
x_{0,3}^{0,2} - y_0^0 & \leq & 0 & \text{(row33)} \\
x_{0,4}^{0,2} - y_0^0 & \leq & 0 & \text{(row34)} \\
x_{1,0}^{0,2} - y_1^0 & \leq & 0 & \text{(row35)} \\
x_{1,1}^{0,2} - y_1^0 & \leq & 0 & \text{(row36)} \\
x_{1,2}^{0,2} - y_1^0 & \leq & 0 & \text{(row37)} \\
x_{1,3}^{0,2} - y_1^0 & \leq & 0 & \text{(row38)} \\
x_{1,4}^{0,2} - y_1^0 & \leq & 0 & \text{(row39)}
\end{array}
\right.
\tag{4}
$$

$$\begin{cases} x_{2,0}^{0,2} - y_2^0 & \leq & 0 & \text{(row40)} \\ x_{2,1}^{0,2} - y_2^0 & \leq & 0 & \text{(row41)} \\ x_{2,2}^{0,2} - y_2^0 & \leq & 0 & \text{(row42)} \\ x_{2,3}^{0,2} - y_2^0 & \leq & 0 & \text{(row43)} \\ x_{2,4}^{0,2} - y_2^0 & \leq & 0 & \text{(row44)} \\ x_{3,0}^{0,2} - y_3^0 & \leq & 0 & \text{(row45)} \\ x_{3,1}^{0,2} - y_3^0 & \leq & 0 & \text{(row46)} \\ x_{3,2}^{0,2} - y_3^0 & \leq & 0 & \text{(row47)} \\ x_{3,3}^{0,2} - y_3^0 & \leq & 0 & \text{(row48)} \\ x_{3,4}^{0,2} - y_3^0 & \leq & 0 & \text{(row49)} \end{cases} \tag{5}$$

$$\begin{cases} x_{4,0}^{0,2} - y_4^0 & \leq & 0 & \text{(row50)} \\ x_{4,1}^{0,2} - y_4^0 & \leq & 0 & \text{(row51)} \\ x_{4,2}^{0,2} - y_4^0 & \leq & 0 & \text{(row52)} \\ x_{4,3}^{0,2} - y_4^0 & \leq & 0 & \text{(row53)} \\ x_{4,4}^{0,2} - y_4^0 & \leq & 0 & \text{(row54)} \\ x_{0,0}^{1,3} - y_0^1 & \leq & 0 & \text{(row55)} \\ x_{0,1}^{1,3} - y_0^1 & \leq & 0 & \text{(row56)} \\ x_{0,2}^{1,3} - y_0^1 & \leq & 0 & \text{(row57)} \\ x_{0,3}^{1,3} - y_0^1 & \leq & 0 & \text{(row58)} \\ x_{0,4}^{1,3} - y_0^1 & \leq & 0 & \text{(row59)} \end{cases} \tag{6}$$

$$\begin{cases} x_{1,0}^{1,3} - y_1^1 & \leq & 0 & \text{(row60)} \\ x_{1,1}^{1,3} - y_1^1 & \leq & 0 & \text{(row61)} \\ x_{1,2}^{1,3} - y_1^1 & \leq & 0 & \text{(row62)} \\ x_{1,3}^{1,3} - y_1^1 & \leq & 0 & \text{(row63)} \\ x_{1,4}^{1,3} - y_1^1 & \leq & 0 & \text{(row64)} \\ x_{2,0}^{1,3} - y_2^1 & \leq & 0 & \text{(row65)} \\ x_{2,1}^{1,3} - y_2^1 & \leq & 0 & \text{(row66)} \\ x_{2,2}^{1,3} - y_2^1 & \leq & 0 & \text{(row67)} \\ x_{2,3}^{1,3} - y_2^1 & \leq & 0 & \text{(row68)} \\ x_{2,4}^{1,3} - y_2^1 & \leq & 0 & \text{(row69)} \end{cases} \tag{7}$$

$$\begin{cases} x_{3,0}^{1,3} - y_3^1 & \leq & 0 & \text{(row70)} \\ x_{3,1}^{1,3} - y_3^1 & \leq & 0 & \text{(row71)} \\ x_{3,2}^{1,3} - y_3^1 & \leq & 0 & \text{(row72)} \\ x_{3,3}^{1,3} - y_3^1 & \leq & 0 & \text{(row73)} \\ x_{3,4}^{1,3} - y_3^1 & \leq & 0 & \text{(row74)} \\ x_{4,0}^{1,3} - y_4^1 & \leq & 0 & \text{(row75)} \\ x_{4,1}^{1,3} - y_4^1 & \leq & 0 & \text{(row76)} \\ x_{4,2}^{1,3} - y_4^1 & \leq & 0 & \text{(row77)} \\ x_{4,3}^{1,3} - y_4^1 & \leq & 0 & \text{(row78)} \\ x_{4,4}^{1,3} - y_4^1 & \leq & 0 & \text{(row79)} \end{cases} \tag{8}$$

$$\left\{\begin{array}{rcll}
x_{0,0}^{2,3} - y_0^2 & \leq & 0 & \text{(row80)} \\
x_{0,1}^{2,3} - y_0^2 & \leq & 0 & \text{(row81)} \\
x_{0,2}^{2,3} - y_0^2 & \leq & 0 & \text{(row82)} \\
x_{0,3}^{2,3} - y_0^2 & \leq & 0 & \text{(row83)} \\
x_{0,4}^{2,3} - y_0^2 & \leq & 0 & \text{(row84)} \\
x_{1,0}^{2,3} - y_1^2 & \leq & 0 & \text{(row85)} \\
x_{1,1}^{2,3} - y_1^2 & \leq & 0 & \text{(row86)} \\
x_{1,2}^{2,3} - y_1^2 & \leq & 0 & \text{(row87)} \\
x_{1,3}^{2,3} - y_1^2 & \leq & 0 & \text{(row88)} \\
x_{1,4}^{2,3} - y_1^2 & \leq & 0 & \text{(row89)}
\end{array}\right. \tag{9}$$

$$\left\{\begin{array}{rcll}
x_{2,0}^{2,3} - y_2^2 & \leq & 0 & \text{(row90)} \\
x_{2,1}^{2,3} - y_2^2 & \leq & 0 & \text{(row91)} \\
x_{2,2}^{2,3} - y_2^2 & \leq & 0 & \text{(row92)} \\
x_{2,3}^{2,3} - y_2^2 & \leq & 0 & \text{(row93)} \\
x_{2,4}^{2,3} - y_2^2 & \leq & 0 & \text{(row94)} \\
x_{3,0}^{2,3} - y_3^2 & \leq & 0 & \text{(row95)} \\
x_{3,1}^{2,3} - y_3^2 & \leq & 0 & \text{(row96)} \\
x_{3,2}^{2,3} - y_3^2 & \leq & 0 & \text{(row97)} \\
x_{3,3}^{2,3} - y_3^2 & \leq & 0 & \text{(row98)} \\
x_{3,4}^{2,3} - y_3^2 & \leq & 0 & \text{(row99)}
\end{array}\right. \tag{10}$$

$$\left\{\begin{array}{rcll}
x_{4,0}^{2,3} - y_4^2 & \leq & 0 & \text{(row100)} \\
x_{4,1}^{2,3} - y_4^2 & \leq & 0 & \text{(row101)} \\
x_{4,2}^{2,3} - y_4^2 & \leq & 0 & \text{(row102)} \\
x_{4,3}^{2,3} - y_4^2 & \leq & 0 & \text{(row103)} \\
x_{4,4}^{2,3} - y_4^2 & \leq & 0 & \text{(row104)} \\
y_0^0 + x_{0,0}^{0,1} + x_{1,0}^{0,1} + x_{2,0}^{0,1} + x_{3,0}^{0,1} + x_{4,0}^{0,1} - y_0^1 & \geq & 0 & \text{(row105)} \\
y_1^0 + x_{0,1}^{0,1} + x_{1,1}^{0,1} + x_{2,1}^{0,1} + x_{3,1}^{0,1} + x_{4,1}^{0,1} - y_1^1 & \geq & 0 & \text{(row106)} \\
y_2^0 + x_{0,2}^{0,1} + x_{1,2}^{0,1} + x_{2,2}^{0,1} + x_{3,2}^{0,1} + x_{4,2}^{0,1} - y_2^1 & \geq & 0 & \text{(row107)} \\
y_3^0 + x_{0,3}^{0,1} + x_{1,3}^{0,1} + x_{2,3}^{0,1} + x_{3,3}^{0,1} + x_{4,3}^{0,1} - y_3^1 & \geq & 0 & \text{(row108)} \\
y_4^0 + x_{0,4}^{0,1} + x_{1,4}^{0,1} + x_{2,4}^{0,1} + x_{3,4}^{0,1} + x_{4,4}^{0,1} - y_4^1 & \geq & 0 & \text{(row109)}
\end{array}\right. \tag{11}$$

$$\left\{\begin{array}{rcll}
y_0^0 + x_{0,0}^{0,2} + x_{1,0}^{0,2} + x_{2,0}^{0,2} + x_{3,0}^{0,2} + x_{4,0}^{0,2} - y_0^2 & \geq & 0 & \text{(row110)} \\
y_1^0 + x_{0,1}^{0,2} + x_{1,1}^{0,2} + x_{2,1}^{0,2} + x_{3,1}^{0,2} + x_{4,1}^{0,2} - y_1^2 & \geq & 0 & \text{(row111)} \\
y_2^0 + x_{0,2}^{0,2} + x_{1,2}^{0,2} + x_{2,2}^{0,2} + x_{3,2}^{0,2} + x_{4,2}^{0,2} - y_2^2 & \geq & 0 & \text{(row112)} \\
y_3^0 + x_{0,3}^{0,2} + x_{1,3}^{0,2} + x_{2,3}^{0,2} + x_{3,3}^{0,2} + x_{4,3}^{0,2} - y_3^2 & \geq & 0 & \text{(row113)} \\
y_4^0 + x_{0,4}^{0,2} + x_{1,4}^{0,2} + x_{2,4}^{0,2} + x_{3,4}^{0,2} + x_{4,4}^{0,2} - y_4^2 & \geq & 0 & \text{(row114)} \\
y_0^1 + x_{0,0}^{1,3} + x_{1,0}^{1,3} + x_{2,0}^{1,3} + x_{3,0}^{1,3} + x_{4,0}^{1,3} - y_0^3 & \geq & 0 & \text{(row115)} \\
y_1^1 + x_{0,1}^{1,3} + x_{1,1}^{1,3} + x_{2,1}^{1,3} + x_{3,1}^{1,3} + x_{4,1}^{1,3} - y_1^3 & \geq & 0 & \text{(row116)} \\
y_2^1 + x_{0,2}^{1,3} + x_{1,2}^{1,3} + x_{2,2}^{1,3} + x_{3,2}^{1,3} + x_{4,2}^{1,3} - y_2^3 & \geq & 0 & \text{(row117)} \\
y_3^1 + x_{0,3}^{1,3} + x_{1,3}^{1,3} + x_{2,3}^{1,3} + x_{3,3}^{1,3} + x_{4,3}^{1,3} - y_3^3 & \geq & 0 & \text{(row118)} \\
y_4^1 + x_{0,4}^{1,3} + x_{1,4}^{1,3} + x_{2,4}^{1,3} + x_{3,4}^{1,3} + x_{4,4}^{1,3} - y_4^3 & \geq & 0 & \text{(row119)}
\end{array}\right. \tag{12}$$

$$
\left\{
\begin{array}{rcll}
y_0^2 + x_{0,0}^{2,3} + x_{1,0}^{2,3} + x_{2,0}^{2,3} + x_{3,0}^{2,3} + x_{4,0}^{2,3} - y_0^3 & \geq & 0 & (\text{row}120) \\
y_1^2 + x_{0,1}^{2,3} + x_{1,1}^{2,3} + x_{2,1}^{2,3} + x_{3,1}^{2,3} + x_{4,1}^{2,3} - y_1^3 & \geq & 0 & (\text{row}121) \\
y_2^2 + x_{0,2}^{2,3} + x_{1,2}^{2,3} + x_{2,2}^{2,3} + x_{3,2}^{2,3} + x_{4,2}^{2,3} - y_2^3 & \geq & 0 & (\text{row}122) \\
y_3^2 + x_{0,3}^{2,3} + x_{1,3}^{2,3} + x_{2,3}^{2,3} + x_{3,3}^{2,3} + x_{4,3}^{2,3} - y_3^3 & \geq & 0 & (\text{row}123) \\
y_4^2 + x_{0,4}^{2,3} + x_{1,4}^{2,3} + x_{2,4}^{2,3} + x_{3,4}^{2,3} + x_{4,4}^{2,3} - y_4^3 & \geq & 0 & (\text{row}124) \\
1.9619E + 10y_0^0 + 74748390000y_0^1 + 74748390000y_0^2 + 47477980000y_0^3 - T & \leq & 0 & (\text{row}125) \\
74770080000y_1^0 + 58137552000y_1^1 + 58137552000y_1^2 + 36927264000y_1^3 - T & \leq & 0 & (\text{row}126) \\
74770080000y_2^0 + 58137552000y_2^1 + 58137552000y_2^2 + 36927264000y_2^3 - T & \leq & 0 & (\text{row}127) \\
47522160000y_3^0 + 36950904000y_3^1 + 36950904000y_3^2 + 23470128000y_3^3 - T & \leq & 0 & (\text{row}128) \\
47522160000y_4^0 + 36950904000y_4^1 + 36950904000y_4^2 + 23470128000y_4^3 - T & \leq & 0 & (\text{row}129)
\end{array}
\right.
\tag{13}
$$

$$
\left\{
\begin{array}{l}
f^{0,1}(P_4 \to P_0) + f^{0,1}(P_3 \to P_0) + f^{0,1}(P_1 \to P_0) + f^{0,1}(P_2 \to P_0) - f^{0,1}(P_0 \to P_4) - f^{0,1}(P_0 \to P_3) - f \\
f^{0,2}(P_4 \to P_0) + f^{0,2}(P_3 \to P_0) + f^{0,2}(P_1 \to P_0) + f^{0,2}(P_2 \to P_0) - f^{0,2}(P_0 \to P_4) - f^{0,2}(P_0 \to P_3) - f \\
f^{1,3}(P_4 \to P_0) + f^{1,3}(P_3 \to P_0) + f^{1,3}(P_1 \to P_0) + f^{1,3}(P_2 \to P_0) - f^{1,3}(P_0 \to P_4) - f^{1,3}(P_0 \to P_3) - f \\
f^{2,3}(P_4 \to P_0) + f^{2,3}(P_3 \to P_0) + f^{2,3}(P_1 \to P_0) + f^{2,3}(P_2 \to P_0) - f^{2,3}(P_0 \to P_4) - f^{2,3}(P_0 \to P_3) - f \\
f^{0,1}(P_0 \to P_1) + f^{0,1}(P_4 \to P_1) + f^{0,1}(P_3 \to P_1) + f^{0,1}(P_2 \to P_1) - f^{0,1}(P_1 \to P_4) - f^{0,1}(P_1 \to P_3) - f \\
f^{0,2}(P_0 \to P_1) + f^{0,2}(P_4 \to P_1) + f^{0,2}(P_3 \to P_1) + f^{0,2}(P_2 \to P_1) - f^{0,2}(P_1 \to P_4) - f^{0,2}(P_1 \to P_3) - f \\
f^{1,3}(P_0 \to P_1) + f^{1,3}(P_4 \to P_1) + f^{1,3}(P_3 \to P_1) + f^{1,3}(P_2 \to P_1) - f^{1,3}(P_1 \to P_4) - f^{1,3}(P_1 \to P_3) - f \\
f^{2,3}(P_0 \to P_1) + f^{2,3}(P_4 \to P_1) + f^{2,3}(P_3 \to P_1) + f^{2,3}(P_2 \to P_1) - f^{2,3}(P_1 \to P_4) - f^{2,3}(P_1 \to P_3) - f \\
f^{0,1}(P_3 \to P_2) + f^{0,1}(P_0 \to P_2) + f^{0,1}(P_4 \to P_2) + f^{0,1}(P_1 \to P_2) - f^{0,1}(P_2 \to P_3) - f^{0,1}(P_2 \to P_0) - f \\
f^{0,2}(P_3 \to P_2) + f^{0,2}(P_0 \to P_2) + f^{0,2}(P_4 \to P_2) + f^{0,2}(P_1 \to P_2) - f^{0,2}(P_2 \to P_3) - f^{0,2}(P_2 \to P_0) - f
\end{array}
\right.
\tag{14}
$$

$$
\left\{
\begin{array}{l}
f^{1,3}(P_3 \to P_2) + f^{1,3}(P_0 \to P_2) + f^{1,3}(P_4 \to P_2) + f^{1,3}(P_1 \to P_2) - f^{1,3}(P_2 \to P_3) - f^{1,3}(P_2 \to P_0) - f \\
f^{2,3}(P_3 \to P_2) + f^{2,3}(P_0 \to P_2) + f^{2,3}(P_4 \to P_2) + f^{2,3}(P_1 \to P_2) - f^{2,3}(P_2 \to P_3) - f^{2,3}(P_2 \to P_0) - f \\
f^{0,1}(P_1 \to P_3) + f^{0,1}(P_0 \to P_3) + f^{0,1}(P_4 \to P_3) + f^{0,1}(P_2 \to P_3) - f^{0,1}(P_3 \to P_4) - f^{0,1}(P_3 \to P_2) - f \\
f^{0,2}(P_1 \to P_3) + f^{0,2}(P_0 \to P_3) + f^{0,2}(P_4 \to P_3) + f^{0,2}(P_2 \to P_3) - f^{0,2}(P_3 \to P_4) - f^{0,2}(P_3 \to P_2) - f \\
f^{1,3}(P_1 \to P_3) + f^{1,3}(P_0 \to P_3) + f^{1,3}(P_4 \to P_3) + f^{1,3}(P_2 \to P_3) - f^{1,3}(P_3 \to P_4) - f^{1,3}(P_3 \to P_2) - f \\
f^{2,3}(P_1 \to P_3) + f^{2,3}(P_0 \to P_3) + f^{2,3}(P_4 \to P_3) + f^{2,3}(P_2 \to P_3) - f^{2,3}(P_3 \to P_4) - f^{2,3}(P_3 \to P_2) - f \\
f^{0,1}(P_1 \to P_4) + f^{0,1}(P_0 \to P_4) + f^{0,1}(P_3 \to P_4) + f^{0,1}(P_2 \to P_4) - f^{0,1}(P_4 \to P_2) - f^{0,1}(P_4 \to P_1) - f \\
f^{0,2}(P_1 \to P_4) + f^{0,2}(P_0 \to P_4) + f^{0,2}(P_3 \to P_4) + f^{0,2}(P_2 \to P_4) - f^{0,2}(P_4 \to P_2) - f^{0,2}(P_4 \to P_1) - f \\
f^{1,3}(P_1 \to P_4) + f^{1,3}(P_0 \to P_4) + f^{1,3}(P_3 \to P_4) + f^{1,3}(P_2 \to P_4) - f^{1,3}(P_4 \to P_2) - f^{1,3}(P_4 \to P_1) - f \\
f^{2,3}(P_1 \to P_4) + f^{2,3}(P_0 \to P_4) + f^{2,3}(P_3 \to P_4) + f^{2,3}(P_2 \to P_4) - f^{2,3}(P_4 \to P_2) - f^{2,3}(P_4 \to P_1) - f
\end{array}
\right.
\tag{15}
$$

$$
\left\{
\begin{aligned}
&14117460750\,f^{0,1}(P_1 \to P_4) + 4870936750\,f^{0,2}(P_1 \to P_4) + 14117460750\,f^{1,3}(P_1 \to P_4) + 4127912500\,f\\
&11725683750\,f^{0,1}(P_0 \to P_4) + 4045703750\,f^{0,2}(P_0 \to P_4) + 11725683750\,f^{1,3}(P_0 \to P_4) + 3428562500\,f\\
&3973655250\,f^{0,1}(P_1 \to P_3) + 1371027250\,f^{0,2}(P_1 \to P_3) + 3973655250\,f^{1,3}(P_1 \to P_3) + 1161887500\,f\\
&2465734500\,f^{0,1}(P_3 \to P_4) + 850750500\,f^{0,2}(P_3 \to P_4) + 2465734500\,f^{1,3}(P_3 \to P_4) + 720975000\,f\\
&40589415000\,f^{0,1}(P_0 \to P_3) + 14004535000\,f^{0,2}(P_0 \to P_3) + 40589415000\,f^{1,3}(P_0 \to P_3) + 11868250000\,f\\
&2790036000\,f^{0,1}(P_3 \to P_2) + 962644000\,f^{0,2}(P_3 \to P_2) + 2790036000\,f^{1,3}(P_3 \to P_2) + 815800000\,f\\
&11725683750\,f^{0,1}(P_0 \to P_1) + 4045703750\,f^{0,2}(P_0 \to P_1) + 11725683750\,f^{1,3}(P_0 \to P_1) + 3428562500\,f\\
&3454071750\,f^{0,1}(P_0 \to P_2) + 1191755750\,f^{0,2}(P_0 \to P_2) + 3454071750\,f^{1,3}(P_0 \to P_2) + 1009962500\,f\\
&1600474500\,f^{0,1}(P_4 \to P_2) + 552210500\,f^{0,2}(P_4 \to P_2) + 1600474500\,f^{1,3}(P_4 \to P_2) + 467975000\,f\\
&9557617500\,f^{0,1}(P_1 \to P_2) + 3297657500\,f^{0,2}(P_1 \to P_2) + 9557617500\,f^{1,3}(P_1 \to P_2) + 2794625000\,f
\end{aligned}
\right.
\tag{16}
$$

$$
\left\{
\begin{aligned}
&14117460750\,f^{0,1}(P_4 \to P_1) + 4870936750\,f^{0,2}(P_4 \to P_1) + 14117460750\,f^{1,3}(P_4 \to P_1) + 4127912500\,f\\
&11725683750\,f^{0,1}(P_4 \to P_0) + 4045703750\,f^{0,2}(P_4 \to P_0) + 11725683750\,f^{1,3}(P_4 \to P_0) + 3428562500\,f\\
&3973655250\,f^{0,1}(P_3 \to P_1) + 1371027250\,f^{0,2}(P_3 \to P_1) + 3973655250\,f^{1,3}(P_3 \to P_1) + 1161887500\,f\\
&2465734500\,f^{0,1}(P_4 \to P_3) + 850750500\,f^{0,2}(P_4 \to P_3) + 2465734500\,f^{1,3}(P_4 \to P_3) + 720975000\,f\\
&40589415000\,f^{0,1}(P_3 \to P_0) + 14004535000\,f^{0,2}(P_3 \to P_0) + 40589415000\,f^{1,3}(P_3 \to P_0) + 11868250000\,f\\
&2790036000\,f^{0,1}(P_2 \to P_3) + 962644000\,f^{0,2}(P_2 \to P_3) + 2790036000\,f^{1,3}(P_2 \to P_3) + 815800000\,f\\
&11725683750\,f^{0,1}(P_1 \to P_0) + 4045703750\,f^{0,2}(P_1 \to P_0) + 11725683750\,f^{1,3}(P_1 \to P_0) + 3428562500\,f\\
&3454071750\,f^{0,1}(P_2 \to P_0) + 1191755750\,f^{0,2}(P_2 \to P_0) + 3454071750\,f^{1,3}(P_2 \to P_0) + 1009962500\,f\\
&1600474500\,f^{0,1}(P_2 \to P_4) + 552210500\,f^{0,2}(P_2 \to P_4) + 1600474500\,f^{1,3}(P_2 \to P_4) + 467975000\,f\\
&9557617500\,f^{0,1}(P_2 \to P_1) + 3297657500\,f^{0,2}(P_2 \to P_1) + 9557617500\,f^{1,3}(P_2 \to P_1) + 2794625000\,f
\end{aligned}
\right.
\tag{17}
$$

$$
\left\{
\begin{array}{lccl}
f^{0,1}(P_1 \to P_4) & \geq & 0 & (\text{row}170)\\
f^{0,2}(P_1 \to P_4) & \geq & 0 & (\text{row}171)\\
f^{1,3}(P_1 \to P_4) & \geq & 0 & (\text{row}172)\\
f^{2,3}(P_1 \to P_4) & \geq & 0 & (\text{row}173)\\
f^{0,1}(P_0 \to P_4) & \geq & 0 & (\text{row}174)\\
f^{0,2}(P_0 \to P_4) & \geq & 0 & (\text{row}175)\\
f^{1,3}(P_0 \to P_4) & \geq & 0 & (\text{row}176)\\
f^{2,3}(P_0 \to P_4) & \geq & 0 & (\text{row}177)\\
f^{0,1}(P_1 \to P_3) & \geq & 0 & (\text{row}178)\\
f^{0,2}(P_1 \to P_3) & \geq & 0 & (\text{row}179)
\end{array}
\right.
\tag{18}
$$

$$
\left\{
\begin{array}{lccl}
f^{1,3}(P_1 \to P_3) & \geq & 0 & (\text{row}180)\\
f^{2,3}(P_1 \to P_3) & \geq & 0 & (\text{row}181)\\
f^{0,1}(P_3 \to P_4) & \geq & 0 & (\text{row}182)\\
f^{0,2}(P_3 \to P_4) & \geq & 0 & (\text{row}183)\\
f^{1,3}(P_3 \to P_4) & \geq & 0 & (\text{row}184)\\
f^{2,3}(P_3 \to P_4) & \geq & 0 & (\text{row}185)\\
f^{0,1}(P_0 \to P_3) & \geq & 0 & (\text{row}186)\\
f^{0,2}(P_0 \to P_3) & \geq & 0 & (\text{row}187)\\
f^{1,3}(P_0 \to P_3) & \geq & 0 & (\text{row}188)\\
f^{2,3}(P_0 \to P_3) & \geq & 0 & (\text{row}189)
\end{array}
\right.
\tag{19}
$$

$$\begin{cases} f^{0,1}(P_3 \rightarrow P_2) & \geq & 0 & \text{(row190)} \\ f^{0,2}(P_3 \rightarrow P_2) & \geq & 0 & \text{(row191)} \\ f^{1,3}(P_3 \rightarrow P_2) & \geq & 0 & \text{(row192)} \\ f^{2,3}(P_3 \rightarrow P_2) & \geq & 0 & \text{(row193)} \\ f^{0,1}(P_0 \rightarrow P_1) & \geq & 0 & \text{(row194)} \\ f^{0,2}(P_0 \rightarrow P_1) & \geq & 0 & \text{(row195)} \\ f^{1,3}(P_0 \rightarrow P_1) & \geq & 0 & \text{(row196)} \\ f^{2,3}(P_0 \rightarrow P_1) & \geq & 0 & \text{(row197)} \\ f^{0,1}(P_0 \rightarrow P_2) & \geq & 0 & \text{(row198)} \\ f^{0,2}(P_0 \rightarrow P_2) & \geq & 0 & \text{(row199)} \end{cases} \quad (20)$$

$$\begin{cases} f^{1,3}(P_0 \rightarrow P_2) & \geq & 0 & \text{(row200)} \\ f^{2,3}(P_0 \rightarrow P_2) & \geq & 0 & \text{(row201)} \\ f^{0,1}(P_4 \rightarrow P_2) & \geq & 0 & \text{(row202)} \\ f^{0,2}(P_4 \rightarrow P_2) & \geq & 0 & \text{(row203)} \\ f^{1,3}(P_4 \rightarrow P_2) & \geq & 0 & \text{(row204)} \\ f^{2,3}(P_4 \rightarrow P_2) & \geq & 0 & \text{(row205)} \\ f^{0,1}(P_1 \rightarrow P_2) & \geq & 0 & \text{(row206)} \\ f^{0,2}(P_1 \rightarrow P_2) & \geq & 0 & \text{(row207)} \\ f^{1,3}(P_1 \rightarrow P_2) & \geq & 0 & \text{(row208)} \\ f^{2,3}(P_1 \rightarrow P_2) & \geq & 0 & \text{(row209)} \end{cases} \quad (21)$$

$$\begin{cases} f^{0,1}(P_4 \rightarrow P_1) & \geq & 0 & \text{(row210)} \\ f^{0,2}(P_4 \rightarrow P_1) & \geq & 0 & \text{(row211)} \\ f^{1,3}(P_4 \rightarrow P_1) & \geq & 0 & \text{(row212)} \\ f^{2,3}(P_4 \rightarrow P_1) & \geq & 0 & \text{(row213)} \\ f^{0,1}(P_4 \rightarrow P_0) & \geq & 0 & \text{(row214)} \\ f^{0,2}(P_4 \rightarrow P_0) & \geq & 0 & \text{(row215)} \\ f^{1,3}(P_4 \rightarrow P_0) & \geq & 0 & \text{(row216)} \\ f^{2,3}(P_4 \rightarrow P_0) & \geq & 0 & \text{(row217)} \\ f^{0,1}(P_3 \rightarrow P_1) & \geq & 0 & \text{(row218)} \\ f^{0,2}(P_3 \rightarrow P_1) & \geq & 0 & \text{(row219)} \end{cases} \quad (22)$$

$$\begin{cases} f^{1,3}(P_3 \rightarrow P_1) & \geq & 0 & \text{(row220)} \\ f^{2,3}(P_3 \rightarrow P_1) & \geq & 0 & \text{(row221)} \\ f^{0,1}(P_4 \rightarrow P_3) & \geq & 0 & \text{(row222)} \\ f^{0,2}(P_4 \rightarrow P_3) & \geq & 0 & \text{(row223)} \\ f^{1,3}(P_4 \rightarrow P_3) & \geq & 0 & \text{(row224)} \\ f^{2,3}(P_4 \rightarrow P_3) & \geq & 0 & \text{(row225)} \\ f^{0,1}(P_3 \rightarrow P_0) & \geq & 0 & \text{(row226)} \\ f^{0,2}(P_3 \rightarrow P_0) & \geq & 0 & \text{(row227)} \\ f^{1,3}(P_3 \rightarrow P_0) & \geq & 0 & \text{(row228)} \\ f^{2,3}(P_3 \rightarrow P_0) & \geq & 0 & \text{(row229)} \end{cases} \quad (23)$$

$$
\begin{cases}
f^{0,1}(P_2 \rightarrow P_3) & \geq & 0 & \text{(row230)} \\
f^{0,2}(P_2 \rightarrow P_3) & \geq & 0 & \text{(row231)} \\
f^{1,3}(P_2 \rightarrow P_3) & \geq & 0 & \text{(row232)} \\
f^{2,3}(P_2 \rightarrow P_3) & \geq & 0 & \text{(row233)} \\
f^{0,1}(P_1 \rightarrow P_0) & \geq & 0 & \text{(row234)} \\
f^{0,2}(P_1 \rightarrow P_0) & \geq & 0 & \text{(row235)} \\
f^{1,3}(P_1 \rightarrow P_0) & \geq & 0 & \text{(row236)} \\
f^{2,3}(P_1 \rightarrow P_0) & \geq & 0 & \text{(row237)} \\
f^{0,1}(P_2 \rightarrow P_0) & \geq & 0 & \text{(row238)} \\
f^{0,2}(P_2 \rightarrow P_0) & \geq & 0 & \text{(row239)}
\end{cases}
\tag{24}
$$

$$
\begin{cases}
f^{1,3}(P_2 \rightarrow P_0) & \geq & 0 & \text{(row240)} \\
f^{2,3}(P_2 \rightarrow P_0) & \geq & 0 & \text{(row241)} \\
f^{0,1}(P_2 \rightarrow P_4) & \geq & 0 & \text{(row242)} \\
f^{0,2}(P_2 \rightarrow P_4) & \geq & 0 & \text{(row243)} \\
f^{1,3}(P_2 \rightarrow P_4) & \geq & 0 & \text{(row244)} \\
f^{2,3}(P_2 \rightarrow P_4) & \geq & 0 & \text{(row245)} \\
f^{0,1}(P_2 \rightarrow P_1) & \geq & 0 & \text{(row246)} \\
f^{0,2}(P_2 \rightarrow P_1) & \geq & 0 & \text{(row247)} \\
f^{1,3}(P_2 \rightarrow P_1) & \geq & 0 & \text{(row248)} \\
f^{2,3}(P_2 \rightarrow P_1) & \geq & 0 & \text{(row249)}
\end{cases}
\tag{25}
$$

$$
\begin{cases}
f^{0,1}(P_1 \rightarrow P_4) & \geq & 0 \\
f^{0,1}(P_1 \rightarrow P_4) & \leq & 1 \\
f^{0,1}(P_0 \rightarrow P_4) & \geq & 0 \\
f^{0,1}(P_0 \rightarrow P_4) & \leq & 1 \\
f^{0,1}(P_1 \rightarrow P_3) & \geq & 0 \\
f^{0,1}(P_1 \rightarrow P_3) & \leq & 1 \\
f^{0,1}(P_3 \rightarrow P_4) & \geq & 0 \\
f^{0,1}(P_3 \rightarrow P_4) & \leq & 1 \\
f^{0,1}(P_0 \rightarrow P_3) & \geq & 0 \\
f^{0,1}(P_0 \rightarrow P_3) & \leq & 1
\end{cases}
\tag{26}
$$

$$
\begin{cases}
f^{0,1}(P_3 \rightarrow P_2) & \geq & 0 \\
f^{0,1}(P_3 \rightarrow P_2) & \leq & 1 \\
f^{0,1}(P_0 \rightarrow P_1) & \geq & 0 \\
f^{0,1}(P_0 \rightarrow P_1) & \leq & 1 \\
f^{0,1}(P_0 \rightarrow P_2) & \geq & 0 \\
f^{0,1}(P_0 \rightarrow P_2) & \leq & 1 \\
f^{0,1}(P_4 \rightarrow P_2) & \geq & 0 \\
f^{0,1}(P_4 \rightarrow P_2) & \leq & 1 \\
f^{0,1}(P_1 \rightarrow P_2) & \geq & 0 \\
f^{0,1}(P_1 \rightarrow P_2) & \leq & 1
\end{cases}
\tag{27}
$$

$$
\begin{cases}
f^{0,1}(P_4 \to P_1) & \geq & 0 \\
f^{0,1}(P_4 \to P_1) & \leq & 1 \\
f^{0,1}(P_4 \to P_0) & \geq & 0 \\
f^{0,1}(P_4 \to P_0) & \leq & 1 \\
f^{0,1}(P_3 \to P_1) & \geq & 0 \\
f^{0,1}(P_3 \to P_1) & \leq & 1 \\
f^{0,1}(P_4 \to P_3) & \geq & 0 \\
f^{0,1}(P_4 \to P_3) & \leq & 1 \\
f^{0,1}(P_3 \to P_0) & \geq & 0 \\
f^{0,1}(P_3 \to P_0) & \leq & 1
\end{cases}
\tag{28}
$$

$$
\begin{cases}
f^{0,1}(P_2 \to P_3) & \geq & 0 \\
f^{0,1}(P_2 \to P_3) & \leq & 1 \\
f^{0,1}(P_1 \to P_0) & \geq & 0 \\
f^{0,1}(P_1 \to P_0) & \leq & 1 \\
f^{0,1}(P_2 \to P_0) & \geq & 0 \\
f^{0,1}(P_2 \to P_0) & \leq & 1 \\
f^{0,1}(P_2 \to P_4) & \geq & 0 \\
f^{0,1}(P_2 \to P_4) & \leq & 1 \\
f^{0,1}(P_2 \to P_1) & \geq & 0 \\
f^{0,1}(P_2 \to P_1) & \leq & 1
\end{cases}
\tag{29}
$$

$$
\begin{cases}
f^{0,2}(P_1 \to P_4) & \geq & 0 \\
f^{0,2}(P_1 \to P_4) & \leq & 1 \\
f^{0,2}(P_0 \to P_4) & \geq & 0 \\
f^{0,2}(P_0 \to P_4) & \leq & 1 \\
f^{0,2}(P_1 \to P_3) & \geq & 0 \\
f^{0,2}(P_1 \to P_3) & \leq & 1 \\
f^{0,2}(P_3 \to P_4) & \geq & 0 \\
f^{0,2}(P_3 \to P_4) & \leq & 1 \\
f^{0,2}(P_0 \to P_3) & \geq & 0 \\
f^{0,2}(P_0 \to P_3) & \leq & 1
\end{cases}
\tag{30}
$$

$$
\begin{cases}
f^{0,2}(P_3 \to P_2) & \geq & 0 \\
f^{0,2}(P_3 \to P_2) & \leq & 1 \\
f^{0,2}(P_0 \to P_1) & \geq & 0 \\
f^{0,2}(P_0 \to P_1) & \leq & 1 \\
f^{0,2}(P_0 \to P_2) & \geq & 0 \\
f^{0,2}(P_0 \to P_2) & \leq & 1 \\
f^{0,2}(P_4 \to P_2) & \geq & 0 \\
f^{0,2}(P_4 \to P_2) & \leq & 1 \\
f^{0,2}(P_1 \to P_2) & \geq & 0 \\
f^{0,2}(P_1 \to P_2) & \leq & 1
\end{cases}
\tag{31}
$$

$$\begin{cases} f^{0,2}(P_4 \to P_1) & \geq & 0 \\ f^{0,2}(P_4 \to P_1) & \leq & 1 \\ f^{0,2}(P_4 \to P_0) & \geq & 0 \\ f^{0,2}(P_4 \to P_0) & \leq & 1 \\ f^{0,2}(P_3 \to P_1) & \geq & 0 \\ f^{0,2}(P_3 \to P_1) & \leq & 1 \\ f^{0,2}(P_4 \to P_3) & \geq & 0 \\ f^{0,2}(P_4 \to P_3) & \leq & 1 \\ f^{0,2}(P_3 \to P_0) & \geq & 0 \\ f^{0,2}(P_3 \to P_0) & \leq & 1 \end{cases} \tag{32}$$

$$\begin{cases} f^{0,2}(P_2 \to P_3) & \geq & 0 \\ f^{0,2}(P_2 \to P_3) & \leq & 1 \\ f^{0,2}(P_1 \to P_0) & \geq & 0 \\ f^{0,2}(P_1 \to P_0) & \leq & 1 \\ f^{0,2}(P_2 \to P_0) & \geq & 0 \\ f^{0,2}(P_2 \to P_0) & \leq & 1 \\ f^{0,2}(P_2 \to P_4) & \geq & 0 \\ f^{0,2}(P_2 \to P_4) & \leq & 1 \\ f^{0,2}(P_2 \to P_1) & \geq & 0 \\ f^{0,2}(P_2 \to P_1) & \leq & 1 \end{cases} \tag{33}$$

$$\begin{cases} f^{1,3}(P_1 \to P_4) & \geq & 0 \\ f^{1,3}(P_1 \to P_4) & \leq & 1 \\ f^{1,3}(P_0 \to P_4) & \geq & 0 \\ f^{1,3}(P_0 \to P_4) & \leq & 1 \\ f^{1,3}(P_1 \to P_3) & \geq & 0 \\ f^{1,3}(P_1 \to P_3) & \leq & 1 \\ f^{1,3}(P_3 \to P_4) & \geq & 0 \\ f^{1,3}(P_3 \to P_4) & \leq & 1 \\ f^{1,3}(P_0 \to P_3) & \geq & 0 \\ f^{1,3}(P_0 \to P_3) & \leq & 1 \end{cases} \tag{34}$$

$$\begin{cases} f^{1,3}(P_3 \to P_2) & \geq & 0 \\ f^{1,3}(P_3 \to P_2) & \leq & 1 \\ f^{1,3}(P_0 \to P_1) & \geq & 0 \\ f^{1,3}(P_0 \to P_1) & \leq & 1 \\ f^{1,3}(P_0 \to P_2) & \geq & 0 \\ f^{1,3}(P_0 \to P_2) & \leq & 1 \\ f^{1,3}(P_4 \to P_2) & \geq & 0 \\ f^{1,3}(P_4 \to P_2) & \leq & 1 \\ f^{1,3}(P_1 \to P_2) & \geq & 0 \\ f^{1,3}(P_1 \to P_2) & \leq & 1 \end{cases} \tag{35}$$

$$\begin{cases} f^{1,3}(P_4 \rightarrow P_1) & \geq & 0 \\ f^{1,3}(P_4 \rightarrow P_1) & \leq & 1 \\ f^{1,3}(P_4 \rightarrow P_0) & \geq & 0 \\ f^{1,3}(P_4 \rightarrow P_0) & \leq & 1 \\ f^{1,3}(P_3 \rightarrow P_1) & \geq & 0 \\ f^{1,3}(P_3 \rightarrow P_1) & \leq & 1 \\ f^{1,3}(P_4 \rightarrow P_3) & \geq & 0 \\ f^{1,3}(P_4 \rightarrow P_3) & \leq & 1 \\ f^{1,3}(P_3 \rightarrow P_0) & \geq & 0 \\ f^{1,3}(P_3 \rightarrow P_0) & \leq & 1 \end{cases} \tag{36}$$

$$\begin{cases} f^{1,3}(P_2 \rightarrow P_3) & \geq & 0 \\ f^{1,3}(P_2 \rightarrow P_3) & \leq & 1 \\ f^{1,3}(P_1 \rightarrow P_0) & \geq & 0 \\ f^{1,3}(P_1 \rightarrow P_0) & \leq & 1 \\ f^{1,3}(P_2 \rightarrow P_0) & \geq & 0 \\ f^{1,3}(P_2 \rightarrow P_0) & \leq & 1 \\ f^{1,3}(P_2 \rightarrow P_4) & \geq & 0 \\ f^{1,3}(P_2 \rightarrow P_4) & \leq & 1 \\ f^{1,3}(P_2 \rightarrow P_1) & \geq & 0 \\ f^{1,3}(P_2 \rightarrow P_1) & \leq & 1 \end{cases} \tag{37}$$

$$\begin{cases} f^{2,3}(P_1 \rightarrow P_4) & \geq & 0 \\ f^{2,3}(P_1 \rightarrow P_4) & \leq & 1 \\ f^{2,3}(P_0 \rightarrow P_4) & \geq & 0 \\ f^{2,3}(P_0 \rightarrow P_4) & \leq & 1 \\ f^{2,3}(P_1 \rightarrow P_3) & \geq & 0 \\ f^{2,3}(P_1 \rightarrow P_3) & \leq & 1 \\ f^{2,3}(P_3 \rightarrow P_4) & \geq & 0 \\ f^{2,3}(P_3 \rightarrow P_4) & \leq & 1 \\ f^{2,3}(P_0 \rightarrow P_3) & \geq & 0 \\ f^{2,3}(P_0 \rightarrow P_3) & \leq & 1 \end{cases} \tag{38}$$

$$\begin{cases} f^{2,3}(P_3 \rightarrow P_2) & \geq & 0 \\ f^{2,3}(P_3 \rightarrow P_2) & \leq & 1 \\ f^{2,3}(P_0 \rightarrow P_1) & \geq & 0 \\ f^{2,3}(P_0 \rightarrow P_1) & \leq & 1 \\ f^{2,3}(P_0 \rightarrow P_2) & \geq & 0 \\ f^{2,3}(P_0 \rightarrow P_2) & \leq & 1 \\ f^{2,3}(P_4 \rightarrow P_2) & \geq & 0 \\ f^{2,3}(P_4 \rightarrow P_2) & \leq & 1 \\ f^{2,3}(P_1 \rightarrow P_2) & \geq & 0 \\ f^{2,3}(P_1 \rightarrow P_2) & \leq & 1 \end{cases} \tag{39}$$

$$\begin{cases} f^{2,3}(P_4 \to P_1) & \geq & 0 \\ f^{2,3}(P_4 \to P_1) & \leq & 1 \\ f^{2,3}(P_4 \to P_0) & \geq & 0 \\ f^{2,3}(P_4 \to P_0) & \leq & 1 \\ f^{2,3}(P_3 \to P_1) & \geq & 0 \\ f^{2,3}(P_3 \to P_1) & \leq & 1 \\ f^{2,3}(P_4 \to P_3) & \geq & 0 \\ f^{2,3}(P_4 \to P_3) & \leq & 1 \\ f^{2,3}(P_3 \to P_0) & \geq & 0 \\ f^{2,3}(P_3 \to P_0) & \leq & 1 \end{cases} \tag{40}$$

$$\begin{cases} f^{2,3}(P_2 \to P_3) & \geq & 0 \\ f^{2,3}(P_2 \to P_3) & \leq & 1 \\ f^{2,3}(P_1 \to P_0) & \geq & 0 \\ f^{2,3}(P_1 \to P_0) & \leq & 1 \\ f^{2,3}(P_2 \to P_0) & \geq & 0 \\ f^{2,3}(P_2 \to P_0) & \leq & 1 \\ f^{2,3}(P_2 \to P_4) & \geq & 0 \\ f^{2,3}(P_2 \to P_4) & \leq & 1 \\ f^{2,3}(P_2 \to P_1) & \geq & 0 \\ f^{2,3}(P_2 \to P_1) & \leq & 1 \end{cases} \tag{41}$$

$$\begin{cases} x_{0,0}^{0,1} & \in & \{0,1\} \\ x_{0,1}^{0,1} & \in & \{0,1\} \\ x_{0,2}^{0,1} & \in & \{0,1\} \\ x_{0,3}^{0,1} & \in & \{0,1\} \\ x_{0,4}^{0,1} & \in & \{0,1\} \\ x_{1,0}^{0,1} & \in & \{0,1\} \\ x_{1,1}^{0,1} & \in & \{0,1\} \\ x_{1,2}^{0,1} & \in & \{0,1\} \\ x_{1,3}^{0,1} & \in & \{0,1\} \\ x_{1,4}^{0,1} & \in & \{0,1\} \end{cases} \tag{42}$$

$$\begin{cases} x_{2,0}^{0,1} & \in & \{0,1\} \\ x_{2,1}^{0,1} & \in & \{0,1\} \\ x_{2,2}^{0,1} & \in & \{0,1\} \\ x_{2,3}^{0,1} & \in & \{0,1\} \\ x_{2,4}^{0,1} & \in & \{0,1\} \\ x_{3,0}^{0,1} & \in & \{0,1\} \\ x_{3,1}^{0,1} & \in & \{0,1\} \\ x_{3,2}^{0,1} & \in & \{0,1\} \\ x_{3,3}^{0,1} & \in & \{0,1\} \\ x_{3,4}^{0,1} & \in & \{0,1\} \end{cases} \tag{43}$$

$$
\begin{cases}
x_{4,0}^{0,1} & \in & \{0,1\} \\
x_{4,1}^{0,1} & \in & \{0,1\} \\
x_{4,2}^{0,1} & \in & \{0,1\} \\
x_{4,3}^{0,1} & \in & \{0,1\} \\
x_{4,4}^{0,1} & \in & \{0,1\} \\
x_{0,0}^{0,2} & \in & \{0,1\} \\
x_{0,1}^{0,2} & \in & \{0,1\} \\
x_{0,2}^{0,2} & \in & \{0,1\} \\
x_{0,3}^{0,2} & \in & \{0,1\} \\
x_{0,4}^{0,2} & \in & \{0,1\}
\end{cases}
\tag{44}
$$

$$
\begin{cases}
x_{1,0}^{0,2} & \in & \{0,1\} \\
x_{1,1}^{0,2} & \in & \{0,1\} \\
x_{1,2}^{0,2} & \in & \{0,1\} \\
x_{1,3}^{0,2} & \in & \{0,1\} \\
x_{1,4}^{0,2} & \in & \{0,1\} \\
x_{2,0}^{0,2} & \in & \{0,1\} \\
x_{2,1}^{0,2} & \in & \{0,1\} \\
x_{2,2}^{0,2} & \in & \{0,1\} \\
x_{2,3}^{0,2} & \in & \{0,1\} \\
x_{2,4}^{0,2} & \in & \{0,1\}
\end{cases}
\tag{45}
$$

$$
\begin{cases}
x_{3,0}^{0,2} & \in & \{0,1\} \\
x_{3,1}^{0,2} & \in & \{0,1\} \\
x_{3,2}^{0,2} & \in & \{0,1\} \\
x_{3,3}^{0,2} & \in & \{0,1\} \\
x_{3,4}^{0,2} & \in & \{0,1\} \\
x_{4,0}^{0,2} & \in & \{0,1\} \\
x_{4,1}^{0,2} & \in & \{0,1\} \\
x_{4,2}^{0,2} & \in & \{0,1\} \\
x_{4,3}^{0,2} & \in & \{0,1\} \\
x_{4,4}^{0,2} & \in & \{0,1\}
\end{cases}
\tag{46}
$$

$$
\begin{cases}
x_{0,0}^{1,3} & \in & \{0,1\} \\
x_{0,1}^{1,3} & \in & \{0,1\} \\
x_{0,2}^{1,3} & \in & \{0,1\} \\
x_{0,3}^{1,3} & \in & \{0,1\} \\
x_{0,4}^{1,3} & \in & \{0,1\} \\
x_{1,0}^{1,3} & \in & \{0,1\} \\
x_{1,1}^{1,3} & \in & \{0,1\} \\
x_{1,2}^{1,3} & \in & \{0,1\} \\
x_{1,3}^{1,3} & \in & \{0,1\} \\
x_{1,4}^{1,3} & \in & \{0,1\}
\end{cases}
\tag{47}
$$

12

$$
\begin{cases}
x_{2,0}^{1,3} & \in & \{0,1\} \\
x_{2,1}^{1,3} & \in & \{0,1\} \\
x_{2,2}^{1,3} & \in & \{0,1\} \\
x_{2,3}^{1,3} & \in & \{0,1\} \\
x_{2,4}^{1,3} & \in & \{0,1\} \\
x_{3,0}^{1,3} & \in & \{0,1\} \\
x_{3,1}^{1,3} & \in & \{0,1\} \\
x_{3,2}^{1,3} & \in & \{0,1\} \\
x_{3,3}^{1,3} & \in & \{0,1\} \\
x_{3,4}^{1,3} & \in & \{0,1\}
\end{cases}
\tag{48}
$$

$$
\begin{cases}
x_{4,0}^{1,3} & \in & \{0,1\} \\
x_{4,1}^{1,3} & \in & \{0,1\} \\
x_{4,2}^{1,3} & \in & \{0,1\} \\
x_{4,3}^{1,3} & \in & \{0,1\} \\
x_{4,4}^{1,3} & \in & \{0,1\} \\
x_{0,0}^{2,3} & \in & \{0,1\} \\
x_{0,1}^{2,3} & \in & \{0,1\} \\
x_{0,2}^{2,3} & \in & \{0,1\} \\
x_{0,3}^{2,3} & \in & \{0,1\} \\
x_{0,4}^{2,3} & \in & \{0,1\}
\end{cases}
\tag{49}
$$

$$
\begin{cases}
x_{1,0}^{2,3} & \in & \{0,1\} \\
x_{1,1}^{2,3} & \in & \{0,1\} \\
x_{1,2}^{2,3} & \in & \{0,1\} \\
x_{1,3}^{2,3} & \in & \{0,1\} \\
x_{1,4}^{2,3} & \in & \{0,1\} \\
x_{2,0}^{2,3} & \in & \{0,1\} \\
x_{2,1}^{2,3} & \in & \{0,1\} \\
x_{2,2}^{2,3} & \in & \{0,1\} \\
x_{2,3}^{2,3} & \in & \{0,1\} \\
x_{2,4}^{2,3} & \in & \{0,1\}
\end{cases}
\tag{50}
$$

$$
\begin{cases}
x_{3,0}^{2,3} & \in & \{0,1\} \\
x_{3,1}^{2,3} & \in & \{0,1\} \\
x_{3,2}^{2,3} & \in & \{0,1\} \\
x_{3,3}^{2,3} & \in & \{0,1\} \\
x_{3,4}^{2,3} & \in & \{0,1\} \\
x_{4,0}^{2,3} & \in & \{0,1\} \\
x_{4,1}^{2,3} & \in & \{0,1\} \\
x_{4,2}^{2,3} & \in & \{0,1\} \\
x_{4,3}^{2,3} & \in & \{0,1\} \\
x_{4,4}^{2,3} & \in & \{0,1\}
\end{cases}
\tag{51}
$$

$$\begin{cases} y_0^0 & \in & \{0,1\} \\ y_1^0 & \in & \{0,1\} \\ y_2^0 & \in & \{0,1\} \\ y_3^0 & \in & \{0,1\} \\ y_4^0 & \in & \{0,1\} \\ y_0^1 & \in & \{0,1\} \\ y_1^1 & \in & \{0,1\} \\ y_2^1 & \in & \{0,1\} \\ y_3^1 & \in & \{0,1\} \\ y_4^1 & \in & \{0,1\} \end{cases} \tag{52}$$

$$\begin{cases} y_0^2 & \in & \{0,1\} \\ y_1^2 & \in & \{0,1\} \\ y_2^2 & \in & \{0,1\} \\ y_3^2 & \in & \{0,1\} \\ y_4^2 & \in & \{0,1\} \\ y_0^3 & \in & \{0,1\} \\ y_1^3 & \in & \{0,1\} \\ y_2^3 & \in & \{0,1\} \\ y_3^3 & \in & \{0,1\} \\ y_4^3 & \in & \{0,1\} \end{cases} \tag{53}$$