

## Synthesized solution for benchmark 00medstrai.c

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solution
├─ (Partial), cond  $b_{14}$ :  $N > 0$ 
│   └─  $\left\{ \begin{array}{l} \text{Case } \neg b_{14}: \\ k_1 = (b_{14} \cdot I_{13} \cdot G_{12} + \neg b_{14} \cdot 1) \cdot E_{11} \cdot D_{10} \cdot (a_9 \cdot C_8 \cdot B_7 + \neg a_9 \cdot 1) \cdot A_6 \cdot M_5 \\ k_2 = L_{27} \cdot G_{24} \cdot E_{23} \cdot D_{22} \cdot C_{21} \cdot B_{20} \cdot A_{19} \cdot M_{18} \end{array} \right.$ 
│       └─ (Partial), cond  $a_9$ :  $N < 0$ 
│           └─  $\left\{ \begin{array}{l} \text{Case } a_9: \\ k_1 = 1 \cdot 1 \cdot E_{11} \cdot D_{10} \cdot (a_9 \cdot C_8 \cdot B_7 + \neg a_9 \cdot 1) \cdot A_6 \cdot M_5 \\ k_2 = L_{27} \cdot G_{24} \cdot E_{23} \cdot D_{22} \cdot C_{21} \cdot B_{20} \cdot A_{19} \cdot M_{18} \end{array} \right.$ 
│               └─ AComplete
│                   └─  $\left\{ \begin{array}{l} \text{Axioms} : \{L = 1, P = 1\} \\ k_1 = 1 \cdot 1 \cdot E_{11} \cdot D_{10} \cdot 1 \cdot C_8 \cdot B_7 \cdot A_6 \cdot M_5 \\ k_2 = L_{27} \cdot P_{48} \cdot E_{23} \cdot D_{22} \cdot C_{21} \cdot B_{20} \cdot A_{19} \cdot M_{18} \end{array} \right.$ 

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*Remaining 1 solutions ommitted for brevity.*