

Synthesized solution for benchmark 03buffer.c

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solution
├─ (Partial), cond  $a_6$ :  $\text{brk} < 1$ 
│   └─  $\left\{ \begin{array}{l} \text{Case } a_6 : \\ k_1 = M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot (a_6 \cdot G_{13} \cdot (c_{12} \cdot B_7 + \neg c_{12} \cdot (b_{11} \cdot B_8 + \neg b_{11} \cdot W_{33} \cdot O_{34}))) * \neg a_6 \\ k_2 = N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot B_{22}))) * \neg a_{19} \end{array} \right.$ 
│       └─ AComplete
│           └─  $\left\{ \begin{array}{l} \text{Axioms} : \{M = 1, N = 1, Y = L, W = 1, O = 1, P = 1\} \\ k_1 = M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot 1 \cdot (a_6 \cdot G_{13} \cdot (c_{12} \cdot B_7 + \neg c_{12} \cdot (b_{11} \cdot B_8 + \neg b_{11} \cdot W_{33} \cdot O_{34}))) * \neg a_6 \\ k_2 = N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot P_{35}))) * \neg a_{19} \end{array} \right.$ 
│   └─  $\left\{ \begin{array}{l} \text{Case } \neg a_6 : \\ k_1 = M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot (a_6 \cdot G_{13} \cdot (c_{12} \cdot B_7 + \neg c_{12} \cdot (b_{11} \cdot B_8 + \neg b_{11} \cdot W_{33} \cdot O_{34}))) * \neg a_6 \\ k_2 = N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot B_{22}))) * \neg a_{19} \end{array} \right.$ 
│       └─ (Partial), cond  $a_{19}$ :  $\text{brk} < 1$ 
│           └─  $\left\{ \begin{array}{l} \text{Case } \neg a_{19} : \\ k_1 = M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot 0 \cdot 0 \\ k_2 = N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot B_{22}))) * \neg a_{19} \end{array} \right.$ 
│               └─ AComplete
│                   └─  $\left\{ \begin{array}{l} \text{Axioms} : \{M = 1, N = 1, Y = L, W = 1, O = 1\} \\ k_1 = M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot 0 \cdot 0 \\ k_2 = N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot 0 \cdot 0 \end{array} \right.$ 

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Remaining 190 solutions omitted for brevity.