

Synthesized solution for benchmark 00smstrai.c

```

solution
├─ (Partial), cond  $b_{10}$ :  $N > 0$ 
│   └─  $\left\{ \begin{array}{l} \text{Case } b_{10} : \\ k_1 = (b_{10} \cdot C_9 + \neg b_{10} \cdot 1) \cdot B_8 \cdot (a_7 \cdot A_6 + \neg a_7 \cdot 1) \cdot M_5 \\ k_2 = C_{17} \cdot B_{16} \cdot A_{15} \cdot M_{14} \end{array} \right.$ 
│       └─ AComplete
│           └─  $\left\{ \begin{array}{l} \text{Axioms} : \{G = 1\} \\ k_1 = 1 \cdot C_9 \cdot B_8 \cdot 1 \cdot M_5 \\ k_2 = C_{17} \cdot B_{16} \cdot G_{19} \cdot M_{14} \end{array} \right.$ 

```

Remaining 3 solutions ommitted for brevity.