

Synthesized solution for benchmark 01conclloop3.c

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solution
├─ (Partial), cond  $b_{12}$ : number  $\geq 0$ 
│   └─  $\left\{ \begin{array}{l} \text{Case } b_{12} : \\ k_1 = (a_5 \cdot V() = \text{evA}()); \cdot U_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_5 \\ k_2 = ((a_{11} \wedge b_{12}) \cdot E() = \text{evA}()); \cdot C_{\text{count}} = \text{count} + i, ? \ 1;) * (\neg a_{11} \vee \neg b_{12}) \end{array} \right.$ 
│       └─ (Complete), cond  $a_{11}$ : count  $\leq 4$ 
│           └─  $\left\{ \begin{array}{l} \text{Case } a_{11} : \\ k_1 = (a_5 \cdot V() = \text{evA}()); \cdot U_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_5 \\ k_2 = 1 \cdot ((a_{11} \wedge b_{12}) \cdot E() = \text{evA}()); \cdot C_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_{11} \end{array} \right.$ 
│               └─ AComplete
│                   └─  $\left\{ \begin{array}{l} \text{Axioms} : \{V = 1, U = 1, D = 1, T = 1\} \\ k_1 = (a_5 \cdot V() = \text{evA}()); \cdot U_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_5 \\ k_2 = 1 \cdot 1 \cdot ((a_{11} \wedge b_{12}) \cdot D() = \text{evA}()); \cdot T_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_{11} \end{array} \right.$ 
│                       └─  $\left\{ \begin{array}{l} \text{Case } \neg a_{11} : \\ k_1 = (a_5 \cdot V() = \text{evA}()); \cdot U_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_5 \\ k_2 = 1 \cdot ((a_{11} \wedge b_{12}) \cdot E() = \text{evA}()); \cdot C_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_{11} \end{array} \right.$ 
│                           └─ AComplete
│                               └─  $\left\{ \begin{array}{l} \text{Axioms} : \{V = 1, U = 1\} \\ k_1 = (a_5 \cdot V() = \text{evA}()); \cdot U_{\text{count}} = \text{count} + i, ? \ 1;) * \neg a_5 \\ k_2 = 1 \cdot 1 \cdot ((a_{11} \wedge b_{12}) \cdot 0) * \neg a_{11} \end{array} \right.$ 

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Remaining 125 solutions ommitted for brevity.