

Synthesized solution for benchmark 01conclloop.c

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

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Remaining 12 solutions omitted for brevity.