

# Synthesized solution for benchmark 01linarith.c

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solution
├─ AComplete
│   └─ 
$$\left\{ \begin{array}{l} \text{Axioms : } \{G = 1, J = 1, T = 1, S = I\} \\ k_1 = O_c = \text{nondet}(); \cdot V_{\text{servers}} = 4; \cdot P_{\text{resp}} = 0; \cdot U_{\text{curr\_serv}} = \text{servers}; \cdot N_{\text{tmp}} = \text{nondet}(); \cdot (a_5 \cdot 1 \cdot G_c = c \text{ } -i, ? \text{ } 1; \cdot S() = \text{shutdown}()); \cdot C_{\text{curr\_serv}} = \text{curr\_serv } -i, ? \text{ } 1; \\ \cdot E_{\text{resp}} = \text{resp } +i, ? \text{ } 1; \cdot N_{\text{tmp}} = \text{nondet}(); \end{array} \right) * \neg a_5 \\ k_2 = O_c = \text{nondet}(); \cdot V_{\text{servers}} = 4; \cdot P_{\text{resp}} = 0; \cdot U_{\text{curr\_serv}} = \text{servers}; \cdot N_{\text{tmp}} = \text{nondet}(); \cdot (a_{17} \cdot 1 \cdot I() = \text{pingall}()); \cdot C_{\text{curr\_serv}} = \text{curr\_serv } -i, ? \text{ } 1; \cdot J_c = c \text{ } -i, ? \text{ } 1; \\ \cdot E_{\text{resp}} = \text{resp } +i, ? \text{ } 1; \cdot T() = \text{shutdown}(); \cdot N_{\text{tmp}} = \text{nondet}(); \end{array} \right) * \neg a_{17}$$

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Remaining 10 solutions ommitted for brevity.