

# Synthesized solution for benchmark 00medstrai.c

```

solution
├─ (Partial), cond  $b_{14}$ :  $N > 0$ 
│   └─  $\left\{ \begin{array}{l} \text{Case } \neg b_{14} : \\ k_1 = (b_N > 0 \cdot I()) = \text{m1}(); \cdot G() = \text{m2}(); + \neg b_N > 0 \cdot 1 \cdot E() = \text{m4}(); \cdot D() = \text{m5}(); \cdot (a_N < 0 \cdot C() = \text{m11}()); \cdot B() = \text{m12}(); + \neg a_N < 0 \cdot 1 \cdot A() = \text{m14}(); \cdot M() = \text{m15}(); \\ k_2 = L() = \text{m1}(); \cdot G() = \text{m2}(); \cdot E() = \text{m4}(); \cdot D() = \text{m5}(); \cdot C() = \text{m11}(); \cdot B() = \text{m12}(); \cdot A() = \text{m14}(); \cdot M() = \text{m15}(); \end{array} \right.$ 
│       └─ (Partial), cond  $a_9$ :  $N < 0$ 
│           └─  $\left\{ \begin{array}{l} \text{Case } a_9 : \\ k_1 = 1 \cdot 1 \cdot E() = \text{m4}(); \cdot D() = \text{m5}(); \cdot (a_N < 0 \cdot C() = \text{m11}()); \cdot B() = \text{m12}(); + \neg a_N < 0 \cdot 1 \cdot A() = \text{m14}(); \cdot M() = \text{m15}(); \\ k_2 = L() = \text{m1}(); \cdot G() = \text{m2}(); \cdot E() = \text{m4}(); \cdot D() = \text{m5}(); \cdot C() = \text{m11}(); \cdot B() = \text{m12}(); \cdot A() = \text{m14}(); \cdot M() = \text{m15}(); \end{array} \right.$ 
│               └─ AComplete
│                   └─  $\left\{ \begin{array}{l} \text{Axioms : } \{L = 1, P = 1\} \\ k_1 = 1 \cdot 1 \cdot E() = \text{m4}(); \cdot D() = \text{m5}(); \cdot 1 \cdot C() = \text{m11}(); \cdot B() = \text{m12}(); \cdot A() = \text{m14}(); \cdot M() = \text{m15}(); \\ k_2 = L() = \text{m1}(); \cdot P() = \text{m2}(); \cdot E() = \text{m4}(); \cdot D() = \text{m5}(); \cdot C() = \text{m11}(); \cdot B() = \text{m12}(); \cdot A() = \text{m14}(); \cdot M() = \text{m15}(); \end{array} \right.$ 

```

Remaining 1 solutions ommitted for brevity.