```
solution
```

$\;\;$ (Partial), cond b_{10}: `N > 0`

$\left\{\begin{array}{l} Case\ b_{10}: \\ k_1 = (b_{\texttt{N > 0}} \cdot C_{()\ =\ \texttt{m1()}}; + \neg b_{\texttt{N > 0}} \cdot 1) \cdot B_{()\ =\ \texttt{m4()}}; \cdot (a_{\texttt{N < 0}} \cdot A_{()\ =\ \texttt{m11()}}; + \neg a_{\texttt{N < 0}} \cdot 1) \cdot M_{()\ =\ \texttt{m14()}}; \\ k_2 = C_{()\ =\ \texttt{m1()}}; \cdot B_{()\ =\ \texttt{m4()}}; \cdot A_{()\ =\ \texttt{m11()}}; \cdot M_{()\ =\ \texttt{m14()}}; \end{array}\right.$

$\;\;$ `AComplete`

$\left\{\begin{array}{l} Axioms: \{G = 1\} \\ k_1 = 1 \cdot C_{()\ =\ \texttt{m1()}}; \cdot B_{()\ =\ \texttt{m4()}}; \cdot 1 \cdot M_{()\ =\ \texttt{m14()}}; \\ k_2 = C_{()\ =\ \texttt{m1()}}; \cdot B_{()\ =\ \texttt{m4()}}; \cdot G_{()\ =\ \texttt{m11()}}; \cdot M_{()\ =\ \texttt{m14()}}; \end{array}\right.$

Remaining 3 solutions ommitted for brevity.