```
(c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 1) \land (Mago = 0) \land (Statut = 1)))
                                                                                                                               \leftarrow (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 60) \land (Statut = 1)))
 (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 0)))
                                                                                                             powerDown
                                                                                                                                   (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 1)))
                                                                                                                                                                                                                                                              - (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 2)))
 (c_q2 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 1)))
   (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 0) \land (Statut = 1)))
                                                                                                            ServeCoffee (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6180) \land (Statut = 1)))
(c_q1 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                               - (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 60) \land (Statut = 1)))
 (c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 0) \land (Statut = 1)))
 (c_q3 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                                                                                                                               powerDown (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 0)))
                                                                                                             backBalance
                                                                                                             ServeCoffee (C_q3 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 1)))
(c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 1) \land (Mago = 6060) \land (Statut = 1)))
                                                                                                                                                                                                                                                                    (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 2)))
(c_q1 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                             c = c + c = 0 (CofeeLeft = 1) \Lambda (Mago = 6180) \Lambda (Statut = 1))
                                                                                                                                                                                   insert
                                                                                                                                                                                                                                              powerDown (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 0)))
 (c_q1 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                   (c_q1 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                             ServeCoffee
                                                                                                                                                                                                                                                                    (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 2)))
(c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 6060) \land (Statut = 1)))
                                                                                                                                                                                                                                                                      (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 101) \land (Mago = 0) \land (Statut = 0)))
                                                                                                                               - (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 100) \land (Mago = 0) \land (Statut = 0)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                backBalance (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 100) \land (Mago = 0) \land (Statut = 1)))
                                                                                                                                                                                                                                                                    (c_q4 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 100) \land (Mago = 0) \land (Statut = 0)))
                                                                                                                                                                                                                                                                                                                                                                                                 - (c_q0 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 100) \land (Mago = 0) \land (Statut = 1)))
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