```
(c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 1) \land (Mago = 0) \land (Statut = 1)))
                                                                                                                                      → (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 60) \land (Statut = 1)))
                                                  insert
 (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 0)))
                                                                                                                                                                                                                                                                                (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 2)))
                                                                                                                                          (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 1)))
 (c_q^2) \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 0) \land (Mago = 6121) \land (Statut = 1)))
                                                                                                                                                                                       takeMago
                                                                                                                 powerDown
   (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 0) \land (Statut = 1)))
                                                                                                                                        ► (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 0) \land (Statut = 0)))
(c_q1 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                   - (c_q2 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6180) \land (Statut = 1)))
                                                  insert
 (c_q1 \stackrel{\text{def}}{=} ((Balance = 1) \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)))
                                                                                                                 ServeCoffee
  (c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 0) \land (Statut = 1)))
                                                                                                                                            (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 2) \land (Mago = 0) \land (Statut = 1)))
                                                                                                                                         (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6180) \land (Statut = 1)))
                                                                                                                 ServeCoffee
                                                                                                                 powerDown
(c_q1 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                        (c_q4 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 6120) \land (Statut = 0)))
                                                                                                                 backBalance
                                                                                                                                        (c_q1 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 2) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                        (c_q4 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 0)))
 (c_q3 \stackrel{\text{def}}{=} ((Balance = 1) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                 backBalance
                                                                                                                                                                                          insert
                                                                                                                                   - (c_q3 \stackrel{\text{\tiny def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                                                                                                                                                           - (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 2)))
(c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 1) \land (Mago = 6060) \land (Statut = 1)))
                                                                                                                   powerUp
                                                                                                                                        (c_q0 \stackrel{\text{def}}{=} ((Balance = 60) \land (CofeeLeft = 2) \land (Mago = 6060) \land (Statut = 1)))
                                                                                                                                                                                                                                                                                                                                                                                              AutoOut (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 2)))
 (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 0) \land (Mago = 6120) \land (Statut = 0)))
                                                                                                                                                                                                                                                                                (c q1 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 1)))
                                                                                                                                                                                                                                                          powerUp
                                                                                                                   addCofee
                                                                                                                                        (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 1) \land (Mago = 6120) \land (Statut = 0)))
                                                                                                                                                                                                                                                                                                                                insert
                                                                                                                                      ► (c_q4 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 100) \land (Mago = 0) \land (Statut = 0)))
                                                                                                                                                                                                                                                                              (c_q0 \stackrel{\text{def}}{=} ((Balance = 0) \land (CofeeLeft = 100) \land (Mago = 0) \land (Statut = 1)))
```

powerDown