```
c22_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ko, bat(4) = ok, h = tic, sw = 4 -\frac{Fail}{-} c23_q2 \stackrel{\text{def}}{=} bat(1) = ko, bat(2) = ko, bat(3) = ko, bat(4) = ok, h = tic, sw = 4
c18_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ko, bat(4) = ok, h = tic, sw = 4 -\frac{Repair}{-} c19_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ok, h = tic, sw = 4
c16_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ok, h = tic, sw = 3 -\frac{Fail}{-} c17_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ok, bat(4) = ok, h = tic, sw = 3
c11_{q0} \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ko, bat(4) = ko, h = tac, sw = 1 -\frac{Repair}{-} c12_{q1} \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ok, bat(4) = ko, h = tac, sw = 1
                                                                                                                    c9_{q1} \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ok, bat(4) = ko, h = tac, sw = 3
                                                                                                                                                                                                                                         c10_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ok, bat(4) = ko, h = tic, sw = 3
                                                                                                   -\frac{\text{Tic}}{-} - + \text{c}_{14} = \text{bat}(1) = \text{ko, bat}(2) = \text{ko, bat}(3) = \text{ok, bat}(4) = \text{ko, h} = \text{tic, sw} = 3
c13_{q0} \stackrel{\text{def}}{=} bat(1) = ko, bat(2) = ko, bat(3) = ok, bat(4) = ko, h = tac, sw = 3
 c6_{q1} \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ko, bat(4) = ko, h = tac, sw = 2 - \frac{Fail}{-} -  c7_{q0} \stackrel{\text{def}}{=} bat(1) = ko, bat(2) = ok, bat(3) = ko, bat(4) = ko, h = tac, sw = 2
                                                                                                                                                                                                                                                                                                                                                                    c15_{q}3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ko, bat(4) = ok, h = tic, sw = 1
                                                                                                                                                                                                                                                                                                                                                 Repair
 c4_{q1} \stackrel{\text{def}}{=} bat(1) = ko, bat(2) = ok, bat(3) = ok, bat(4) = ko, h = tac, sw = 2 -\frac{Repair}{-} c5_{q1} \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ko, h = tac, sw = 2
                                                                                                                                                                                                                                              c8_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ok, h = tic, sw = 1
                                                                                                                                                                                                                                                                                                                                               Commute
                                                                                                                                                                                                                                                                                                                                                                    c20 \text{ g1} \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ok, bat(4) = ok, bat(4) = ok
                                                                                                                                                                                                                                                                                                                                                Commute
                                                                                                                - c0_q1 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ok, h = tac, sw = 1
                                                                                                                                                                                                                                                                                                                                                                   c2_q1 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ok, bat(3) = ok, bat(4) = ok, h = tac, sw = 4
                                                                                                                                                                                                                                                q1 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ok, bat(4) = ok, bat(4) = ok, bat(4) = ok
                                                                                                                                                                                                                         Commute
                                                                                                                  c21_q3 \stackrel{\text{def}}{=} bat(1) = ok, bat(2) = ko, bat(3) = ok, bat(4) = ok, h = tic, sw = 4
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