```
Results for RCXPASO (in 00:00:13.289):
 NB EV: 4
 AP: AP2
 NB AP: 2
 NB_MAY: -1
 NB_MUST_MINUS: -1
 NB MUST PLUS: -1
 NB MUST SHARP: -1
 NB AS: 3
 NB AS RCHD: 3
 TAU AS: 100.00
 NB AT: 11
 NB_AT_RCHD: 11
 TAU AT: 100.00
 NB_EXPECTED_AS: 3
 NB_EXPECTED_AS_RCHD: 3
 TAU EXPECTED AS: 100.00
 NB EXPECTED AT: 2
 NB EXPECTED AT RCHD: 2
 TAU_EXPECTED_AT: 100.00
 NB CS: 59
 NB CS RCHD: 50
 NB CT: 61
 NB CT RCHD: 56
 RHO CS: 84.75
 RHO CT: 91.80
 NB TESTS: 8
 NB_STEPS: 82
 TESTS:
    \texttt{c0q1} = \texttt{bat(1)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(3)} = 9, \ \texttt{bat(4)} = 9, \ \texttt{bat(5)} = 9, \ \texttt{bat(6)} = 9, \ \texttt{bat(7)} = 9, \ \texttt{bat(8)} = 9, \ \texttt{h=7}, \ \texttt{sw=1} - [ \ \texttt{Fail} \ ] -> \ \texttt{c1q3} = \ \texttt{bat(1)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(3)} = 9, \ \texttt{bat(3)
 bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1 clq3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=
bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(7)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=1
c3q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=1 -[Repair]-> c1q3 = bat(1)=9, bat(6)=9, 
bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=1 -[ Tic ]-> c2q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9
C2(1 = Dat(1)=9, Dat(2)=9, Dat(3)=9, Dat(4)=9, Dat(4)=9, Dat(5)=9, Dat(6)=9, Dat(6)=9, Dat(8)=9, Dat(8)=9,
 bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=9, bat(7)=9, bat(8)=9, bat(7)=9, bat(8)=9, bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(6)=8, bat(7)=9, bat(8)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=8, h=7, sw=7
   c29q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=8, bat(7)=9, bat(2)=8, bat(1)=9, bat(1)=9, bat(1)=9, bat(2)=8, bat(2)=8
 bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=1
c30q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=1 - [Fail ]-> c3lq3 = bat(1)=8, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3
 c31q3 = bat(1)=8, bat(2)=8, bat(3)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8
 c32q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(6)=8
  \begin{array}{l} \text{c33q2} = \text{bat}(1) = 8, \ \text{bat}(2) = 8, \ \text{bat}(3) = 8, \ \text{bat}(4) = 9, \ \text{bat}(5) = 8, \ \text{bat}(6) = 8, \ \text{bat}(7) = 8, \ \text{bat}(8) = 8, \ \text{h=7, sw=4 -[Repair]} -> \text{c32q3} = \text{bat}(1) = 8, \ \text{bat}(2) = 8, \ \text{bat}(3) = 8, \ \text{bat}(4) = 9, \ \text{bat}(5) = 9, \ \text{bat}(6) = 8, \ \text{bat}(7) = 8, \ \text{bat}(8) = 8, \ \text{h=7, sw=4 -[Repair]} -> \text{c32q3} = \text{bat}(1) = 8, \ \text{bat}(2) = 8, \ \text{bat}(3) = 8, \ \text{bat}(3) = 8, \ \text{bat}(4) = 9, \ \text{bat}(5) = 9, \ \text{bat}(6) = 8, \ \text{bat}(7) = 8, \ \text{bat}(8) = 8, 
 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7) = 63(7
 c33q2 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
 c38q2 = bat(3)=8, bat(4)=9, bat(4)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=9, bat(9)=9
   c0q1 = bat(1) = 9, bat(2) = 9, bat(3) = 9, bat(4) = 9, bat(5) = 9, bat(6) = 9, bat(7) = 9, bat(8) = 9, bat(2) 
 bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(8)=9, bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)
C50q3 = Dat(1)=8, Dat(2)=9, Dat(3)=9, Dat(4)=9, Dat(5)=9, Dat(5)=9, Dat(7)=9, Dat(7)=9, Dat(8)=9, Dat(8)=8, Dat(8)=9, Dat(8)=8, Dat(8)=9, Dat(8)=8, Dat(8)=8
 bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=6
c53q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=6
c53q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=4
   c54q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, b=7, sw=4 -[ Fail ]-> c55q3 = bat(1)=8, bat(2)=9,
 bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=4 
c55q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c20q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=2
   c20q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, b=7, sw=2 -[Repair]-> c58q3 = bat(1)=9, bat(2)=9,
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bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=2

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c0q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)=9, bat(2)=9, bat(2)=9
   bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1 clq3 = bat(1)=9, bat(2)=9, bat(2)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1 -[Fail] -> c3q3 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, b
   bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=1 c3q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=1 -[ Tic ]-> c4q3 = bat(1)=9, bat(2)=9, bat(3)=9, b
 tody = bat(1)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=1 c4q3 = bat(1)=9, bat(6)=9, bat(8)=8, h=6, sw=1 -[ Commute ]-> c6q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, 
   bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=5 c22q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=5 -[Fail ]-> c23q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5
   c23q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c24q3 = bat(1)=9, bat(2)=8,
   bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3 c24q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 -[ Fail ]-> c25q3 = bat(1)=9, bat(2)=8,
   bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=8
     c25q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, b=7, sw=3 -[ Fail ]-> c26q2 = bat(1)=9, bat(2)=8,
     bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(8)=8, bat(
   c26q2 = bat(1)=9, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
     c18g2 = bat(1)=9, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, b=6, sw=1 -[ Repair ]-> c19g3 = bat(1)=9, bat(2)=8,
                                                                                              bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=1
     c0q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)=9, bat(2)=9, bat(2)=9
 bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1
clq3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(8)=8, h=7, sw=1
c3q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=1
c3q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=1 -[ Tic ]-> c4q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(3)=
 bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=9, bat(6)=9, bat(6)
 C34(3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=3 c35(3) = bat(1)=8, bat(2)=8, bat(3)=9, bat(4)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=3 - [Fail] -> c36q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5 - [Fail] -> c37q3 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5 - [Fail] -> c37q3 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5 - [Fail] -> c37q3 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(3)=8,
   bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=5 c37q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=5 -[ Fail ]-> c38q2 = bat(1)=8, bat(2)=8,
   bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(6)
   C3q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=1 -[ lic ]-> c4q3 = bat(1)=9, bat(2)=9, bat(2)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=1 -[ Commute ]-> c6q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=2 c6q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=2 -[ Fail ]-> c22q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c23q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c24q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c24q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c24q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(8)=8, ba
 C25q3 = bat(1)=9, bat(2)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3

c24q3 = bat(1)=9, bat(2)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3

c24q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3

c25q3 = bat(1)=9, bat(2)=8, bat(6)=8, bat(6)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3

c25q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 - [Fail] -> c26q2 = bat(1)=9, bat(2)=8, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 - [Fail] -> c26q2 = bat(1)=9, bat(2)=8, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 - [Fail] -> c26q2 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 - [Fail] -> c26q2 = bat(1)=9, bat(2)=8, bat(3)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 - [Fail] -> c26q2 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3 - [Fail] -> c26q2 = bat(1)=9, bat(2)=8, ba
   bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(9)=8, bat(
   Coq1 = bat(1)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=1 -[ Tic ]-> c2q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(7)=9, bat(6)=9, b
   c43q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)=9, bat(8)=9, bat(9)=9, bat(9)=9
   bat(3)=9, bat(4)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=9, bat(
 c45q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=6, sw=7 -[ Fail ]-> c46q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5 c46q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=8, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5 -[ Fail ]-> c47q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=5
 bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, n=6, sw=5 c47q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=5 -[ Fail ]-> c48q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=2 -[ Fail ]-> c13q2 = bat(1)=8, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=3
   cl3q2 = bat(1)=8, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=3 -[Repair ]-> cl2q3 = bat(1)=9, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=
   bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=3 c13q2 = bat(1)=8, bat(2)=8, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, ba=6, ba
   bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=3
   c1q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(8)=8, bat(8)=8, bat(9)=9, bat(9)=9
   c49q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=9, bat(9)=9
   c39q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=9, bat(9)=9
   c40q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
   c41q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8, bat(1)=8, bat(1)=8
   c42q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8, bat(5)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8
   \text{bat}(3)=6, \text{bat}(4)=6, \text{bat}(5)=6, \text{bat}(5)=6, \text{bat}(4)=6, \text{bat}(4)=6, \text{bat}(4)=8, \text{bat}(5)=8, \text{bat}(4)=8, \text{bat}(4)=8, \text{bat}(5)=8, \text{bat}(6)=8, \text{bat}(7)=8, \text{bat}(8)=8, \text{bat}(7)=8, \text{bat}(8)=8, \text{ba
     *************************************
     c0d1 = bat(1) = 9, bat(2) = 9, bat(3) = 9, bat(4) = 9, bat(5) = 9, bat(6) = 9, bat(7) = 9, bat(8) = 9, bat(2) = 9, bat(2)
```

bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(

```
 c3q3 = bat(1) = 9, \ bat(2) = 9, \ bat(3) = 9, \ bat(4) = 9, \ bat(5) = 9, \ bat(6) = 9, \ bat(6) = 9, \ bat(8) = 8, \ b = 7, \ sw = 1 - [ Fail ] -> c3qq3 = bat(1) = 8, \ bat(2) = 9, \ bat(3) = 9, \ bat(4) = 9, \ bat(5) = 9, \ bat(6) = 9, \ bat(7) = 8, \ bat(8) = 8, \ b = 7, \ sw = 5 
     c39q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5
     c40q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
     c41q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8, bat(1)=8, bat(1)=8
     c42q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(1)=8, bat(1)=8, bat(1)=8, bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(9)=8, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=8, bat(8)=8, bat(8)=8
     c20q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
        \begin{array}{l} 2.2.2.2.2.2 \\ 1 = \neg(p0 = \overline{\exists}(nb).(and(and(nb \in [1..n]), \ and(bat(nb) = ko[8])))), \ (p1 = \overline{\exists}(i, \ j).(and(and(i \in [1..n], \ j \in [1..n]), \ and(i \neq j, \ bat(i) = ok[9], bat(j) = ok[9]))) \end{array} 
                                   (p0 =
                                                                 \exists (nb). (and(and(nb \in [1..n]), and(bat(nb)=ko[8])))), \neg(p1 = \exists(i, j).(and(and(i \in [1..n], j \in [1..n]), and(i \neq j, bat(i)=ok[9],
     bat(j)=ok[9]))))
                                                          = \exists (nb). (and(and(nb \in [1..n]), and(bat(nb)=ko[8])))), (p1 = \exists (i, j). (and(and(i \in [1..n], j \in [1..n]), and(i \neq j, bat(i)=ok[9],
     q3 = (p0)
     bat(i)=ok[9]))))
      \begin{array}{l} q2 = (p0 = \exists (nb).(and(and(nb \in [1..n]), \ and(bat(nb) = ko[8])))), \ \neg (p1 = \exists (i, j).(and(and(i \in [1..n]), j \in [1..n]), \ and(i \neq j, \ bat(i) = ok[9], \ bat(j) = ok[9]))) \end{array} 
                               (p0 = \exists (nb).(and(and(nb \in [1..n]), and(bat(nb)=ko[8])))), (p1 = \exists (i, j).(and(and(i \in [1..n]), j \in [1..n]), and(i \neq j, bat(i)=ok[9], bat(i)=ok[9]))
     q3 = (p0 = \exists(nb) \\ bat(j)=ok[9])))
     \begin{split} & \text{SET\_RCHD\_EXPECTED\_AS:} \\ & \text{q1} = \neg(p0 = \exists (\text{nb}).(\text{and}(\text{and}(\text{nb} \in [1..n]), \text{ and}(\text{bat}(\text{nb}) = \text{ko}[8])))), \ (\text{p1} = \exists (\text{i}, \text{j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{ and}(\text{i} \neq \text{j}, \text{ bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \end{aligned} 
     q2 = (p0 = \exists (nb).(and(and(nb \in [1..n]), and(bat(nb)=ko[8])))), \neg (p1 = \exists (i, j).(and(and(i \in [1..n], j \in [1..n]), and(i \neq j, bat(i)=ok[9], and(
       bat(j)=ok[9]))))
     3 = (p0 = \exists (nb).(and(and(nb \in [1..n]), and(bat(nb)=ko[8]))), (p1 = \exists (i, j).(and(and(i \in [1..n], j \in [1..n]), and(i \neq j, bat(i)=ok[9], and(i \neq 
     bat(j)=ok[9]))))
     SET EXPECTED AT:
    and(i \neq j, bat(i)=ok[9], bat(j)=ok[9])))
SET_RCHD_AT:
    q1 = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]), bat(j)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]), bat(j)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]), bat(j)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]), bat(j)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]), bat(j)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n]), and(i ≠ j, bat(i)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n]), and(i ≠ j, bat(i)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n]), and(i ≠ j, bat(i)=ok[9])));
    = -(p6 = 3(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = 3(i, j).(and(and(i ∈ [1..n]), and(i ≠ j, bat(i)=ok[9]));
    = -(p6 = 3(
     SET_RCHD_EXPECTED_AT:
    and(i \neq j, bat(i)=ok[9], bat(j)=ok[9])))
     SET_UNRCHD_AS:
     SET UNRCHD EXPECTED AS:
```

SET UNRCHD AT:

SET_UNRCHD_EXPECTED_AT:

TIME_ATS: 00:00:13.289
TIME_TESTS: 00:00:00.005