```
Results for RCXP (in 00:00:10.497):
    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: 9
    TAU AT: 81.82
    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: 48
    NB CS RCHD: 36
    NB CT: 48
    NB CT RCHD: 40
    RHO CS: 75.00
    RHO CT: 83.33
    NB TESTS: 7
    NB_STEPS: 62
    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{c2q3} = \ \texttt{bat(1)} = 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 c2q3 = 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)=
  C2q3 = bat(1)=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 -[ Falt ]-> Cq3 = 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 ]-> c2q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=1 -[ Repair ]-> c2q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1 -[ Repair ]-> c0q1 = bat(1)=9, bat(2)=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, h=7, sw=1 -[ Repair ]-> c0q1 = bat(1)=9, bat(2)=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, h=7, sw=1 -[ Repair ]-> c0q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(3)=9, bat(3)
c2q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1 -[ Repair ]-> c0q1 = 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(8)=8, h=7, sw=1 -[ Tic ]-> c4q1 = 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(8)=9, h=7, sw=1 -[ Tic ]-> c4q1 = 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(8)=9, h=6, sw=1 -[ Fail ]-> c28q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=6, sw=8 -[ Fail ]-> c29q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=8, h=6, sw=4 -[ Fail ]-> c39q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=6, sw=4 -[ Fail ]-> c30q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=6, sw=4 -[ Fail ]-> c30q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(6)=9, ba
    L23d3 - bat(1)-6, bat(2)-9, bat(3)-9, bat(3)-9, bat(3)-9, bat(3)-9, bat(3)-9, bat(4)-8, bat(5)-9, bat(6)-9, bat(7)-9, bat(6)-9, bat(7)-9, bat(6)-9, bat(7)-9, bat(8)-8, h=6, sw=7

c30q3 = 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 ]-> c3lq3 = bat(1)-8, bat(2)-9, bat(3)-9, bat(4)-8, bat(5)-9, bat(6)-9, bat(6)-9, bat(8)-8, h=6, sw=6
    c31q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=8, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=6 -[Fail]-> c32q3 = 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
    c32q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
    c33q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=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)=9, bat(9)=9
      ceq1 = 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(6)=9, bat(7)=9, bat(6)=9, lat(7)=9, bat(6)=9, lat(7)=9, bat(6)=9, lat(7)=9, bat(6)=9, lat(7)=9, bat(6)=9, lat(7)=9, bat(8)=9, lat(7)=9, bat(8)=9, lat(8)=9, lat(8)
  bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=2 c40q3 = bat(1)=8, bat(2)=9, bat(6)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=2 -[ Fail ]-> c41q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4 c41q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c42q3 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c42q3 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c42q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c42q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c42q3 = bat(1)=8, bat(2)=8, bat(3)=8, 
    bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(7)=8, bat(7)=8, bat(8)=8, bat(
    bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 c43q2 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)
    c0q1 = bat(1) = 9, bat(2) = 9, bat(3) = 9, bat(4) = 9, bat(4) = 9, bat(5) = 9, bat(6) = 9, bat(6) = 9, bat(8) = 9, bat(8) = 9, bat(8) = 9, bat(9) 
  bat(3)-9, bat(4)-9, bat(3)-9, bat(3)-9, bat(7)-9, bat(6)-9, bat(6)-9, bat(7)-9, bat(8)-8, h=7, sw=1 -[Fail]-> c7q3 = bat(1)=9, bat(2)=9, bat(3)=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=1 -[Fail]-> c7q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=9, ba
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c24q3 = 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(2)=9, bat(3)=9, bat(1)=8, bat(2)=9, bat(1)=8, bat(2)=9, bat(2)=9

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  bat(3) = 9, \ bat(4) = 9, \ bat(5) = 9, \ bat(6) = 8, \ bat(7) = 8, \ bat(8) = 8, \ h = 7, \ sw = 5    c25q3 = 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 - [ Fail ] -> c26q3 = bat(1) = 8, \ bat(2) = 9, 
 bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=4 c26q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c27q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9
 bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3 c27q3 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3 -[ Fail ]-> c19q2 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8
 bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=2 c19q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=8
 bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=2 c20q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=2 -[ Repair ]-> c44q3 = bat(1)=9, bat(2)=9,
 c0q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)=9, bat(9)=9, bat(9)=9
c2q3 = bat(4)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(7)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=8, h=7, sw=1 -[Fail]-> c34q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=6 -[Fail]-> c34q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=6 -[Fail]-> c35q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(6)=9, bat(8)=8, h=7, sw=6
 bat(3)-9, bat(4)-9, bat(5)-9, bat(6)-9, bat(7)-6, bat(7)-6, bat(6)-9, bat(7)-8, bat(8)-8, bat(8)
 bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, b=7, sw
 bat(3)-9, bat(4)-9, bat(3)-9, bat(4)-9, bat(4)-9, bat(5)-8, bat(6)-8, bat(7)-8, bat(8)-8, h=7, sw=4 -[ Fail ]-> c27q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(6)=8, bat(6)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3 -[ Fail ]-> c27q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=3 -[ Fail ]-> c19q2 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=3 -[ Fail ]-> c19q2 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, 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 ]-> c19q2 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(5)=8, bat(7)=8, bat(8)=8, h=7, sw=3 -[ Fail ]-> c19q2 = bat(1)=8, bat(2)=9, bat(2)
 bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=2 c19q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(6)=8, bat(8)=8, bat(8)
 CQq1 = 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 -[ Fail ]-> c2q3 = bat(1)=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 -[ Fail ]-> c7q3 = bat(1)=9, bat(3)=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)=8, h=7, sw=1 -[ Fail ]-> c7q3 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=1
 c7q3 = bat(1)=9, 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)=9, bat(9)=9
 c14q3 = bat(1)=9, 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
 c21q3 = 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
 c22q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, ba=6, ba=6
 c8q3 = bat(1) = 8, bat(2) = 9, bat(3) = 9, bat(4) = 9, bat(4) = 9, bat(6) = 8, bat(6) = 8, bat(7) = 8, bat(8) = 8, bat(8) = 8, bat(8) = 8, bat(9) = 8, bat(1) = 8, bat(2) = 9, bat(3) = 9, bat(4) = 8, bat(5) = 8, bat(6) = 8, bat(7) = 8, bat(8) = 
 c23q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=2 -[ Fail ]-> c20q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(6)=8, bat(6)=8, bat(8)=8, h=6, sw=2
  \begin{array}{c} \text{c20q2} = \text{bat}(3) = 8, \ \text{bat}(2) = 9, \ \text{bat}(3) = 8, \ \text{bat}(4) = 8, \ \text{bat}(5) = 8, \ \text{bat}(6) = 8, \ \text{bat}(7) = 8, \ \text{bat}(8) = 8, \ \text{h=6, sw=2 -[Repair]} -> \ \text{c44q3} = \ \text{bat}(1) = 9, \ \text{bat}(3) = 8, \ \text{bat}(4) = 8, \ \text{bat}(5) = 8, \ \text{bat}(6) = 8, \ \text{bat}(6) = 8, \ \text{bat}(7) = 8, \ \text{bat}(8) = 8, \ \text{h=6, sw=2 -[Repair]} -> \ \text{c44q3} = \ \text{bat}(1) = 9, \ \text{bat}(3) = 8, \ \text{bat}(3) = 8, \ \text{bat}(4) = 8, \ \text{bat}(5) = 8, \ \text{bat}(6) = 8, \ \text{bat}(6) = 8, \ \text{bat}(7) = 8, \ \text{bat}(8) = 8, \ \text{bat}(
   Cdq1 = 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 -[Fail ]-> c37q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=8 c37q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=3
 \begin{array}{l} \text{c38q3} = \text{bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=3 -[ Fail ]-> c39q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(6)=9, bat(6)=9, bat(8)=8, h=7, sw=7 \end{array}
 c39q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9
 c40q3 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
 c4(q) = bat(4) = 8, bat(2) = 8, bat(3) = 8, bat(4) = 9, bat(5) = 9, bat(6) = 9, bat(7) = 8, bat(8) = 8, bat(8) = 8, bat(9) = 8, bat(9) = 8, bat(1) = 8, bat(1) = 8, bat(2) = 8, bat(4) = 8, bat(4)
 c42q3 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(4)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(9)=8, bat(9)=8
 c43q2 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
   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(8)=8, h=7, sw=1 c2q3 = bat(1)=9, bat(2)=9, bat(2)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=1 -[Fail]-> c7q3 = bat(1)=9, bat(2)=9, bat(2)=9, bat(2)=9, bat(3)=9, ba
C2d3 = Dat(1)=9, Dat(2)=9, Dat(3)=9, Dat(4)=9, Dat(5)=9, Dat(5)=9, Dat(6)=9, Dat(6)=9,
 bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5
c21q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=5 -[ Fail ]-> c22q3 = 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=6, sw=
   c22q3 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, b=6, sw=5 -[Fail] -> c8q3 = bat(1)=8, bat(2)=9,
 bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(6)
 SET_EXPECTED_AS:
 q1 = \neg(p0 = \overline{\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(j)=ok[9])))
q2 = (p0 = \exists (nb) \\ bat(j)=ok[9])))
                                           (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],
    q3 = (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
 bat(j)=ok[9]))))
  \begin{array}{l} \mathsf{SET\_RCHD\_AS:} \\ \mathsf{q1} = \neg(\mathsf{p0} = \exists(\mathsf{nb}).(\mathsf{and}(\mathsf{and}(\mathsf{nb} \in [1..n]), \ \mathsf{and}(\mathsf{bat}(\mathsf{nb}) = \mathsf{ko}[8])))), \ (\mathsf{p1} = \exists(\mathsf{i}, \ \mathsf{j}).(\mathsf{and}(\mathsf{and}(\mathsf{i} \in [1..n]), \ \mathsf{j} \in [1..n]), \ \mathsf{and}(\mathsf{i} \neq \mathsf{j}, \ \mathsf{bat}(\mathsf{i}) = \mathsf{ok}[9], \ \mathsf{ok}[9
 bat(j)=ok[9]))))
 q_2 = (p_0 = \exists (\mathsf{nb}).(\mathsf{and}(\mathsf{and}(\mathsf{nb} \in [1..n]), \; \mathsf{and}(\mathsf{bat}(\mathsf{nb}) = \mathsf{ko}[8])))), \; \neg(p_1 = \exists (\mathsf{i}, \mathsf{j}).(\mathsf{and}(\mathsf{and}(\mathsf{i} \in [1..n]), \; \mathsf{j} \in [1..n]), \; \mathsf{and}(\mathsf{i} \neq \mathsf{j}, \; \mathsf{bat}(\mathsf{i}) = \mathsf{ok}[9], \; \mathsf{ok}[9]))
 bat(j)=ok[9]))))
                                                                                              \exists (\mathsf{nb}).(\mathsf{and}(\mathsf{and}(\mathsf{nb} \in [1..n]), \; \mathsf{and}(\mathsf{bat}(\mathsf{nb}) = \mathsf{ko}[8])))), \; (\mathsf{p1} = \exists (\mathsf{i}, \; \mathsf{j}).(\mathsf{and}(\mathsf{and}(\mathsf{i} \in [1..n]), \; \mathsf{j} \in [1..n]), \; \mathsf{and}(\mathsf{i} \neq \mathsf{j}, \; \mathsf{bat}(\mathsf{i}) = \mathsf{ok}[9], \; \mathsf{ok}[9]))))
   q3 = (p0 = 6)
 bat(j)=ok[9]))))
 SET RCHD EXPECTED AS:
                                         \neg (p\overline{0} = \exists (nb). \overline{\ } (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)
 bat(j)=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],
 bat(j)=ok[9]))))
```

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SET_RCHO_AT:
    q1 = ¬(p0 = 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])))) = [Fail ] >> q3 = (p0 = 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])))) = [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])))) = [1.n], and(and(inb ∈ [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], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9], bat(j)=ok[9])))] = [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])))] = [1.n], and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))] = [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])))] = [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])))] = [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])))] = [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])))] = [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])))] = [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])))] = [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])))] = [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])))] = [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])))] = [1.n], and(bat(nb)=ko[8]))), ¬(p1 = 3(i, j
         \neq j, bat(i)=ok[9], bat(j)=ok[9])))
        SET RCHD EXPECTED AT:
      SET_RCHD_EXPECTED_AT:  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])))) - [Repair ] -> q3 = (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(j) = ok[9])))) 
 q3 = (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])))) - [Fait] -> 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])))) 
        SET UNRCHD AS:
        SET UNRCHD EXPECTED AS:
        SET_UNRCHD_AT:
       \begin{array}{l} \text{SEI\_UNKCHD\_AI:} \\ \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(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{ and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9]))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9]))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9]))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9])))) & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9]))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9])))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9])))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(j) = \text{ok}[9])))), & (\text{p1} = \exists(i, j).(\text{and}(\text{and}(i \in [1..n]), \text{and}(i \neq j, \text{bat}(i) = \text{ok}[9], \text{bat}(i) = \text{ok}[9], \text{bat}(i) = \text{ok}[9], & (\text{bat}(i) = \text{ok}[9], \text{bat}(i) = \text{ok}[9], & (\text{bat}(i) = \text{ok}[9], \text{bat}(i) = \text{ok}[9], & (\text{bat}(i) = \text{ok}[9], & (\text{bat}(
        SET_UNRCHD_EXPECTED_AT:
        TIME_ATS: 00:00:10 497
        TIME_TESTS: 00:00:00.003
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