```
Results for RCXPASO (in 00:00:14.616):
  NB EV: 4
  AP: AP1
  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: 9
  NB_AT_RCHD: 9
  TAU AT: 100.00
  NB_EXPECTED_AS: 3
  NB_EXPECTED_AS_RCHD: 3
  TAU EXPECTED AS: 100.00
  NB EXPECTED AT: 1
  NB EXPECTED AT RCHD: 1
  TAU_EXPECTED_AT: 100.00
  NB CS: 60
  NB_CS_RCHD: 51
  NB CT: 59
  NB CT RCHD: 54
  RHO CS: 85.00
  RHO CT: 91.53
  NB TESTS: 8
  NB_STEPS: 80
     \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{c1q1} = \ \texttt{bat(1)} = 8, \ \texttt{bat(2)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(2)} = 9, \ \texttt{bat(3)} = 9, \ \texttt{bat(3)} = 9, \ \texttt{bat(4)} = 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)=9, bat(8)=9, bat(7)=9, bat(8)=9, bat(8)=9, bat(8)=9, bat(8)=9, bat(9)=9, bat(
C1q1 = 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)=9, n=7, sw=7 -[ Repair ]-> c2q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[ Tic ]-> c3q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=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(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=3 -[Fail]-> c24q1 = bat(1)=9, bat(3)=8, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail]-> c25q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, ba
C24q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(7)=9, bat(8)=8, h=7, sw=7 -[ rail ]-> c25q1 = bat(1)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=7 -[ Fail ]-> c26q1 = bat(1)=9, 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=6 -[ Fail ]-> c27q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=6 -[ Fail ]-> c27q1 = bat(1)=9, bat(2)=9, bat(6)=9, bat(6)=9
  bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(7)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(8)=8, bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(8)=8, bat(8)
    c28q1 = bat(1)=9, bat(2)=8, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
  bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=4

c29q1 = bat(1)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=4

c29q1 = bat(1)=9, bat(2)=8, 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 ]-> c10q1 = bat(1)=9, bat(2)=8, bat(3)=8, bat(3)=8, bat(3)=8, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=1
  c10q1 = 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)=9, bat(9)=9
  c11q0 = 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)=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(8)=9, bat(2)=9, bat(2)=9
Cdq1 = bat(1)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)=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=6, sw=7
c30q2 = bat(1)=9, 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=7 -[ Fail ]-> c31q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=6
c31q2 = 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=6, sw=6 -[ Fail ]-> c32q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=6, sw=6 -[ Fail ]-> c32q2 = bat(1)=9, bat(2)=9, bat(3)=9, 
bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4
c32q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4
c33q2 = bat(1)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4
c33q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=4
c33q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=4 -[ Fail ]-> c34q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=4 -[ Fail ]-> c34q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=4 -[ Fail ]-> c34q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(
  bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(6)=8, bat(7)=8, bat(8)=8, bat(7)=8, bat(8)=8, bat(8)
    c35q2 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, b=6, sw=3 -[ Fail ]-> c23q0 = bat(1)=8, bat(2)=9,
  bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(6)=8, bat(6)
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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(2) = 9, bat(2) = 9, bat(2) = 9, bat(3) = 9, bat(4) = 9, bat(4)

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  bat(3) = 9, \ bat(4) = 9, \ bat(5) = 9, \ bat(6) = 9, \ bat(7) = 9, \ bat(8) = 9, \ h = 7, \ sw = 3    c48q1 = 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 = 3 - [ Fail ] -> c49q1 = bat(1) = 8, \ bat(2) = 9, \ bat(2) = 9, \ bat(3) = 9, \ b
  bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=8 c49q1 = 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)=9, h=7, sw=8 -[ Fail ]-> c50q1 = bat(1)=8, bat(2)=9,
  bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=4 c50q1 = 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, h=7, sw=4 -[ Fail ]-> c51q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=4 -[ Fail ]-> c51q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=4 -[ Fail ]-> c51q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, bat(4)=9, bat(8)=8, bat(8)=8
C50q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=8, h=7, sw=4 -[ Fail ]-> c51q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=5 -[ Fail ]-> c52q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=5 -[ Fail ]-> c52q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=2 -[ Fail ]-> c53q1 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=8, h=7, sw=2 -[ Fail ]-> c53q1 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=2 -[ Fail ]-> c53q1 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=2 -[ Fail ]-> c53q1 = bat(1)=8, bat(2)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=8, bat(4)=8, bat(5)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8
  bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=7
c53q1 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=7 -[Fail]-> c54q1 = bat(1)=8, bat(2)=8,
   \begin{array}{l} \text{Co3q1} = \text{bdt}(1) = 0, \ \text{bdt}(2) = 0, \ \text{bdt}(3) = 0, \ \text{bd
  bat(3)-9, bat(4)-9, bat(4)-9, bat(6)-9, bat(6)-9, bat(6)-9, bat(7)-9, bat(6)-9, bat(7)-9, bat(8)-9, bat(8)-9, bat(8)-9, bat(8)-9, bat(1)-9, 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, bat(8)
bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(6)=9, bat(6)=8, bat(7)=9, bat(8)=9, bat(8)
CSq2 = bat(1)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=9, h=6, sw=7 -[ Repair ]-> CSq2 = 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, h=6, sw=7 -[ Fail ]-> CSq2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=9, h=6, sw=7 -[ Fail ]-> CSq2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(6)=8, bat(7)=9, bat(6)=8, bat(7)=9, bat(8)=9, h=6, sw=7 -[ Fail ]-> c18q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=9, h=6, sw=7 -[ Fail ]-> c18q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=9, h=6, sw=7 -[ Fail ]-> c18q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(3)=9, 
  bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(6)=8, bat(6)=8, bat(7)=9, bat(8)=9, bat(8)=8, h=6, sw=7 cl8q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(6)=8, bat(7)=9, bat(8)=8, h=6, sw=7 -[ Fail ]-> cl9q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=8, h=6, sw=7 -[ Fail ]-> cl9q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=8, h=6, sw=7 -[ Fail ]-> cl9q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=9, bat(8)=8, bat(7)=9, bat(8)=8, bat(8)=8
  bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=3
c19q2 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=3 -[ Fail ]-> c20q2 = bat(1)=9, bat(2)=9,
bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4

c20q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4

c21q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4

c21q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4

c21q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=4 - [Fail ]-> c22q2 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, 
  bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=1 c22q2 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=6, sw=1 -[ Fail ]-> c23q0 = bat(1)=8, bat(2)=9,
  bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=2 c23q0 = 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 ]-> c55q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=2 -[ Repair ]-> c55q2 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(5)=8, bat(5)=8, bat(6)=8, bat(
  bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=6, sw=2
  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)=9, bat(9)=9
bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Repair ]-> c2q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, bat(8)=9, h=7, sw=7 -[Repair ]-> c2q1 = bat(1)=9, bat(2)=9, bat(3)=9, bat(4)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=7 -[Fail ]-> c36q1 = 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=7
bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=7
c36q1 = 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=7 -[ Fail ]-> c37q1 = 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=3
c37q1 = 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=3 -[ Fail ]-> c38q1 = bat(1)=9, bat(2)=9,
bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=5
  bat(3)=8, bat(4)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c39q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5 -[ Fail ]-> c40q1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(3)
  bat(3)=8, bat(4)=9, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=4 c40q1 = bat(1)=9, 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 -[ Fail ]-> c4lq1 = bat(1)=9, bat(2)=9, 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 ]-> c4lq1 = bat(1)=9, bat(2)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(5)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, sw=4 -[ Fail ]-> c4lq1 = bat(1)=9, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=8, bat(5)=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, bat(7)=8, bat(9)=9, bat(9)=9, bat(9)=9, bat(9)=9, bat(9)=9, bat(9)=9, bat(9)=8, bat(9)
  bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=1 cl0q1 = 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)
  c42q1 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8, bat(9)=9, bat(9)=9
  c43q1 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=8, bat(8)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(6)=9
  c44q1 = 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, bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(6)=8, bat(8)=8, bat(4)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(6)=9, bat(6)=8, bat(8)=8, bat(4)=8, bat(4)=8
  c45q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=8
Dat(3)=8, Dat(4)=8, Dat(5)=9, Dat(6)=8, Dat(7)=8, Dat(8)=8, N=7, Sw=5 c46q1 = Dat(1)=8, Dat(2)=9, Dat(3)=8, Dat(4)=8, Dat(4)=8, Dat(4)=8, Dat(5)=9, Dat(6)=8, Dat(4)=8, Dat(5)=8, Dat(4)=8, Dat(5)=8, Dat(4)=8, Dat(5)=8, Dat(6)=8, Dat(7)=8, Dat(6)=8, Dat(7)=8, Dat(8)=8, Dat(8)=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, h=6, sw=2 -[ Repair ]-> c55q2 = 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=6, sw=2
  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, h=7, sw=1 -[Fail ]-> c48q1 = 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=3 c48q1 = bat(1)=8, bat(2)=9, bat(3)=9, bat(4)=9, bat(5)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=3 -[Fail ]-> c49q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=9, h=7, sw=8
  c49q1 = bat(1)=8, bat(2)=9, bat(3)=8, 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
  c50q1 = 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(4)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(6)=9
  c51q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
  c52q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
  c53q1 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=9, bat(8)=8, bat(8)=8, bat(9)=8, bat(9)=8
  c54q1 = bat(1)=8, bat(2)=8, bat(3)=8, bat(4)=8, bat(4)=8, bat(5)=8, bat(6)=9, bat(7)=8, bat(8)=8, bat(8)=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)=9, h=7, sw=7 clq1 = 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)=9, h=7, sw=7 -[ Fail ]-> c42q1 = bat(1)=8, bat(2)=9,
  bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=9, bat(6)=9, bat(5)=9, bat(6)=9, bat(6)=9, 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=7, sw=7 -[ Fail ]-> c43q1 = bat(1)=8, bat(2)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(7)=9, bat(8)=8, h=7, sw=7 -[ Fail ]-> c43q1 = bat(1)=8, bat(2)=9, bat(6)=9, bat(6)=9, bat(6)=9, bat(7)=9, bat(8)=8, h=7, sw=7 -[ Fail ]-> c43q1 = bat(1)=8, bat(2)=9, bat(6)=9, bat(6)
  bat(3)=9, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, bat(9)=9, bat(
    c43q1 = 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(9)=8, bat(9)=8, bat(1)=8, bat(1)=8, bat(1)=8, bat(1)=8, bat(1)=8, bat(1)=8, bat(2)=9, bat(3)=9, bat(3)=9, bat(3)=9, bat(4)=9, bat(4)=9
  bat(3)=8, bat(4)=9, bat(5)=9, bat(6)=9, bat(7)=8, bat(8)=8, h=7, sw=4
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 c44q1 = bat(1) = 8, \ bat(2) = 9, \ bat(3) = 8, \ bat(4) = 9, \ bat(5) = 9, \ bat(6) = 9, \ bat(7) = 8, \ bat(8) = 8, \ h = 7, \ sw = 4 - [ \ Fail \ ] -> \ c45q1 = bat(1) = 8, \ bat(2) = 9, \ bat(3) = 8, \ bat(4) = 8, \ bat(4) = 8, \ bat(5) = 9, \ bat(6) = 9, \ bat(6) = 8, \ bat(8) = 8, \ h = 7, \ sw = 6 
  Dat(3)=8, Dat(4)=8, Dat(5)=9, Dat(6)=9, Dat(7)=8, Dat(7)=8, Dat(8)=8, N=7, SW=5 c45q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(7)=8, bat(8)=8, h=7, SW=6 -[Fail]-> c46q1 = bat(1)=8, bat(2)=9, bat(3)=8, bat(4)=8, bat(5)=9, bat(6)=8, bat(7)=8, bat(8)=8, h=7, sw=5
   \cot(3)-6, \cot(4)-6, \cot(4)-6, \cot(4)-6, \cot(4)-6, \cot(4)-6, \cot(4)-6, \cot(4)-6, \cot(4)-7, \cot(4)-8, \cot(4)
    SET EXPECTED AS:
    \begin{array}{l} \exists i \in \mathbb{R} \\ \exists (i,j).(\mathsf{and}(\mathsf{and}(i \in [1..n], j \in [1..n]), \ \mathsf{and}(i \neq j, \ \mathsf{bat}(i) = \mathsf{ok}[9], \ \mathsf{bat}(j) = \mathsf{ok}[9], \ \mathsf{h} = \mathsf{tic}[6])))), \ \neg(\mathsf{p1} = \mathsf{h} = \mathsf{tac}[7]) \\ \mathsf{q1} = \neg(\mathsf{p0} = \exists (i,j).(\mathsf{and}(\mathsf{and}(i \in [1..n], j \in [1..n]), \ \mathsf{and}(i \neq j, \ \mathsf{bat}(i) = \mathsf{ok}[9], \ \mathsf{bat}(j) = \mathsf{ok}[9], \ \mathsf{h} = \mathsf{tic}[6])))), \ \neg(\mathsf{p1} = \mathsf{h} = \mathsf{tac}[7]) \\ \mathsf{q2} = (\mathsf{p0} = \exists (i,j).(\mathsf{and}(\mathsf{and}(i \in [1..n], j \in [1..n]), \ \mathsf{and}(i \neq j, \ \mathsf{bat}(i) = \mathsf{ok}[9], \ \mathsf{bat}(j) = \mathsf{ok}[9], \ \mathsf{h} = \mathsf{tic}[6])))), \ \neg(\mathsf{p1} = \mathsf{h} = \mathsf{tac}[7]) \\ \end{array} 
  \begin{split} & \mathsf{SET}\_\mathsf{RCHD}\_\mathsf{AS:} \\ & \mathsf{q0} = \neg(\mathsf{p0} = \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{bat}(\mathsf{j}) = \mathsf{ok}[9],\ \mathsf{h} = \mathsf{tic}[6])))),\ \neg(\mathsf{p1} = \mathsf{h} = \mathsf{tac}[7]) \\ & \mathsf{q1} = \neg(\mathsf{p0} = \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{bat}(\mathsf{j}) = \mathsf{ok}[9],\ \mathsf{h} = \mathsf{tic}[6])))),\ \neg(\mathsf{p1} = \mathsf{h} = \mathsf{tac}[7]) \\ & \mathsf{q2} = (\mathsf{p0} = \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{bat}(\mathsf{j}) = \mathsf{ok}[9],\ \mathsf{h} = \mathsf{tic}[6])))),\ \neg(\mathsf{p1} = \mathsf{h} = \mathsf{tac}[7]) \end{aligned} 
   SET RCHD EXPECTED AS:
   q_0 = \neg(p_0 = \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], h = tic[6])))), \neg(p_1 = h = tac[7]) 
 q_1 = \neg(p_0 = \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], h = tic[6])))), \neg(p_1 = h = tac[7]) 
 q_2 = (p_0 = \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], h = tic[6])))), \neg(p_1 = h = tac[7]) 
  SET_RCHD_AT: 
    q0 = ¬(p0 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9], bat(i)=ok[9], bat(i=ok[9])), ¬(p1 = b=tac[7]) ¬[ Repair ]-> q2 = (p0 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9], bat(i)=ok[9], bat(i=ok[9]))), ¬(p1 = b=tac[7]) ¬[ Fail ]-> q1 = ¬(p0 = 3(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9], bat(i)=ok[9], bat(i)=
   SET RCHD AT:
    \begin{array}{l} \exists i \mid \text{Act} D = \exists (i, j). (\text{and} (\text{and} (i \in [1..n], j \in [1..n]), \ \text{and} (i \neq j, \ \text{bat} (i) = \text{ok}[9], \ \text{bat} (j) = \text{ok}[9], \ \text{h=tic}[6])))), \ (p1 = \text{h=tac}[7]) \ -[ \ \text{Tic} \ ]-> \ q0 = \neg(p0 = \exists (i, j). (\text{and} (\text{and} (i \in [1..n], j \in [1..n]), \ \text{and} (i \neq j, \ \text{bat} (i) = \text{ok}[9], \ \text{h=tic}[6])))), \ \neg(p1 = \text{h=tac}[7]) \end{array} 
   SET UNRCHD AS:
   SET_UNRCHD_EXPECTED_AS:
   SET_UNRCHD_AT:
   SET_UNRCHD_EXPECTED_AT:
   TIME_ATS: 00:00:14.616
   TIME TESTS: 00:00:00.003
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