Results for CXP (in 00:00:00.610):

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: 2

TAU_AS: 66.67

NB_AT: 11

NB_AT_RCHD: 6

TAU_AT: 54.55

NB_EXPECTED_AS: 3

NB_EXPECTED_AS_RCHD: 2

TAU_EXPECTED_AS: 66.67

NB_EXPECTED_AT: 2

NB_EXPECTED_AT_RCHD: 0

TAU_EXPECTED_AT: 0.00

NB_CS: 21

NB_CS_RCHD: 5

NB_CT: 16

NB_CT_RCHD: 6

RHO_CS: 23.81

RHO_CT: 37.50

NB_TESTS: 2

NB_STEPS: 8

TESTS:
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 ]-> 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
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(2)=9,
bat(3)=9, bat(4)=9, bat(5)=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, h=7, sw=1 -[ Repair ]-> 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
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 -[ Repair ]-> 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
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 ]-> 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
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(2)=9,
bat(3)=9, bat(4)=9, bat(5)=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, h=7, sw=1 -[ Tic ]-> 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, 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, 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(8)=9, h=6, sw=1
##########################################


SET_EXPECTED_AS:
q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))
q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))


SET_RCHD_AS:
q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))


SET_RCHD_EXPECTED_AS:
q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9]))))


SET_EXPECTED_AT:
q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9])))) -[ Repair ]-> q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]),
and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9],
bat(j)=ok[9])))) -[ Fail ]-> q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]),
and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))

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q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Tic ]-> q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Fail ]-> q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Repair ]-> q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Repair ]-> q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Tic ]-> q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))

SET_RCHD_EXPECTED_AT:

SET_UNRCHD_AS:
q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))

SET_UNRCHD_EXPECTED_AS:
q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))

SET_UNRCHD_AT:
q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Commute ]-> q1 = ¬(p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Repair ]-> q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
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SET_UNRCHD_EXPECTED_AT:
q2 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9])))) -[ Repair ]-> q3 = (p0 = ∃(nb).(and(and(nb ∈ [1..n]), and(bat(nb)=ko[8])))), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))))
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TIME_ATS: 00:00:00.610

TIME_TESTS: 00:00:00.000