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Results for FULL (in 00:10:29.835):
    NB EV: 4
    AP: APO
    NB AP: 2
    NB_MAY: -1
    NB_MUST_MINUS: -1
    NB MUST PLUS: -1
    NB MUST SHARP: -1
    NB AS: 4
    NB AS RCHD: 4
    TAU AS: 100.00
    NB AT: 11
    NB_AT_RCHD: 11
    TAU AT: 100.00
    NB_EXPECTED_AS: 4
    NB_EXPECTED_AS_RCHD: 4
    TAU EXPECTED AS: 100.00
    NB EXPECTED AT: 2
    NB EXPECTED AT RCHD: 2
    TAU_EXPECTED_AT: 100.00
    NB CS: 2048
    NB CS RCHD: 2048
    NB CT: 26112
    NB CT RCHD: 26112
    RHO CS: 100.00
    RHO CT: 100.00
   \begin{split} & \text{SET\_EXPECTED\_AS:} \\ & \text{QO} = \neg(\text{pO} = \overline{\text{h}} = \text{tic[6]}), \ \neg(\text{p1} = \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{q1} = \neg(\text{pO} = \text{h} = \text{tic}[6]), \ (\text{p1} = \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{q2} = (\text{pO} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \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{q3} = (\text{pO} = \text{h} = \text{tic}[6]), \ (\text{p1} = \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])))) \\ \end{aligned} 
    SET_RCHD_AS:
   q_0 = \neg(p_0 = h = tic[6]), \ \neg(p_1 = \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])))) \\ q_1 = \neg(p_0 = h = tic[6]), \ (p_1 = \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])))) \\ q_2 = (p_0 = h = tic[6]), \ \neg(p_1 = \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])))) \\ q_3 = (p_0 = h = tic[6]), \ (p_1 = \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])))) 
   \begin{array}{l} \text{SET} \ \underline{\text{RCHD}} \ \underline{\text{EXPECTED}} \ AS: \\ q\theta = \neg(p\overline{\theta} = h = \text{tic}[\overline{\theta}]), \ \neg(p1 = \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])))) \\ q1 = \neg(p\theta = h = \text{tic}[\overline{\theta}]), \ \neg(p1 = \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])))) \\ q2 = (p\theta = h = \text{tic}[\overline{\theta}]), \ \neg(p1 = \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])))) \\ q3 = (p\theta = h = \text{tic}[\overline{\theta}]), \ (p1 = \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])))) \\ \end{array} 
    SET EXPECTED AT:
   \begin{array}{l} \text{SEI} = \text{ExPECIED} \text{ Ai:} \\ \text{q1} = \neg(\text{p0} = \text{h} = \text{tic}[6]), \ (\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q0} = \neg(\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1..n], \text{j} \in [1..n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{ok}[9])))) \ \neg[\text{Fail }] \rightarrow \text{q2} = (\text{p0} = \text{h} = \text{tic}[6]), \ \neg(\text{p1} = \exists (\text{i, j}).(\text{p1} = \exists (\text{i, j}).(\text
SET_RCHD_AT:
    q0 = ¬(p0 = h=tic[6]), ¬(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 = h=tic[6]), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))) ¬[Tic]→ q2 = (p0 = h=tic[6]), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))) ¬[Tic]→ q2 = (p0 = h=tic[6]), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))) ¬[Tic]→ q0 = ¬(p0 = h=tic[6]), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))) ¬[Tail]→ q0 = ¬(p0 = h=tic[6]), ¬(p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))) ¬[Tail]→ q1 = ¬(p0 = h=tic[6]), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i)=ok[9], bat(j)=ok[9]))) ¬[Tail]→ q1 = ¬(p0 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (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 = h=tic[6]), (p1 = ∃(i, j).(and(and(i ∈ [1..n], j ∈ [1..n]), and(i ≠ j, bat(i
    SET_RCHD_EXPECTED_AT:
    \begin{array}{lll} q1 = \neg(p0 = h = tic[6]), & (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])))) \\ -[ Fail ] -> q0 = \neg(p0 = h = tic[6]), & \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}
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	$ \begin{array}{l} \text{h=tic[6]), } (\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1n]), \text{j} \in [1n]), \text{ and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9]))))} \text{ -[ Fail ]-> q2 = (p0 = \neg(\text{p1} = \exists (\text{i, j}).(\text{and}(\text{and}(\text{i} \in [1n]), \text{j} \in [1n]), \text{and}(\text{i} \neq \text{j, bat}(\text{i}) = \text{ok}[9], \text{bat}(\text{j}) = \text{ok}[9]))))} \\ $
SET_UNRCHD_	AS:
SET_UNRCHD_	EXPECTED_AS:
SET_UNRCHD_	AT:
SET_UNRCHD_	EXPECTED_AT:

TIME\_ATS: 00:10:29.835