Results for FULL (in 00:44:36.651):

NB_EV: 15

AP: AP0

NB_AP: 3

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: 49

NB_AT_RCHD: 49

TAU_AT: 100.00

NB_EXPECTED_AS: 4

NB_EXPECTED_AS_RCHD: 4

TAU_EXPECTED_AS: 100.00

NB_EXPECTED_AT: 5

NB_EXPECTED_AT_RCHD: 5

TAU_EXPECTED_AT: 100.00

NB_CS: 8886

NB_CS_RCHD: 8886

NB_CT: 24598

NB_CT_RCHD: 24598

RHO_CS: 100.00

RHO_CT: 100.00

SET_EXPECTED_AS:
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))

SET_RCHD_AS:
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))

SET_RCHD_EXPECTED_AS:
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))

SET_EXPECTED_AT:
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),

or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS1]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[FP1]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))

SET_RCHD_AT:
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS2]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS3]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD2]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD3]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS2]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS3]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[FP2]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[FP3]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[OP1]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[OP2]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[OP3]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),

or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[AS1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[AS2]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[AS3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[CD2]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[CD3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS2]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[FP2]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[FP3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[OP2]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[OP3]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[AS2]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[AS3]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[CD2]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[CD3]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS1]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS1]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS2]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),

or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[DS3]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[FP2]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[FP3]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[OP2]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[OP3]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS2]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS3]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD2]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[CD3]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS2]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS3]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[FP1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[FP1]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[FP2]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[FP3]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[OP2]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[OP3]-> q4 =
(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))

SET_RCHD_EXPECTED_AT:
q0 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R))))))) -[CD1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),

or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q1 = ¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[AS1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS1]-> q0 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q2 = ¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[DS1]-> q1 =
¬(p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), (p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))
q4 = (p0 = Portes(1)=ouvertes[3]), ¬(p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))) -[FP1]-> q2 =
¬(p0 = Portes(1)=ouvertes[3]), (p1 = ∃(R).(and(and(R ∈ Rames), and(R=1, Portes(R)=refermees[5], Mvt(R)=0, or(Pos(R) ≠ NS1, , Dir(R) ≠ 1),
or(Pos(R) ≠ 0, , Dir(R) ≠ -1), ∀(R1).(and(R1 ∈ Rames) => R1 ≠ R => or(Pos(R1) ≠ Pos(R), , Dir(R1) ≠ Dir(R))))))), ¬(p2 = ∃(R).(and(and(R ∈
Rames), and(R=1, Mvt(R)=1, ∀(R1).(and(R1 ∈ [1..NR]) => and(R1 ≠ R) => or(Pos(R1) ≠ (Pos(R) + Dir(R)), , Dir(R1) ≠ Dir(R)))))))

SET_UNRCHD_AS:

SET_UNRCHD_EXPECTED_AS:

SET_UNRCHD_AT:

SET_UNRCHD_EXPECTED_AT:

TIME_ATS: 00:44:36.651