$((ATM_state = 4) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_asked_withdrawal $	$ (c_q0 \stackrel{\text{def}}{=} ((ATM_state = 5) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) $		
$((ATM_state = 8) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_card_id $	$ (c_q) = ((ATM_state = 8) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_$		
$((ATM_state = 11) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land$	$(c_q0 \stackrel{\text{def}}{=} ((ATM_state = 11) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_balance_after_operation = 0) \land (A_asked_withdrawal $		
$((ATM_state = 3) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_asked_withdrawal $	$(c_q0 \triangleq ((ATM_state = 4) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance$		
$((ATM_state = 7) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_asked_withdrawal $	$(c_q0 \stackrel{\text{def}}{=} ((ATM_state = 7) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land$		
$((ATM_state = 13) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked$	$(c_q5 \triangleq ((ATM_state = 0) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_w$		
	$(C_{QS} = (ATM_{State} = 0) \ \ (A_{asked_withdrawai} = 0) \$		
$((ATM_state = 6) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_asked_withdrawal $			
$((ATM_state = 9) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_card_id $	$(c_q5 \triangleq ((ATM_state = 0) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal$		
$(c_q0 = (ATM_state = 7) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal $	$(c_q) = ((ATM_state = 8) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_w$	$\frac{\text{ATM_traite_reponse_pin}}{\text{Endown}} \bullet \text{C}_{q0} \triangleq ((\text{ATM_state} = 5) \land (\text{A_asked_withdrawal} = 0) \land (\text{A_balance} = 0) \land (A_b$	
ATM_state = 2) Λ (A_asked_withdrawal = 0) Λ (A_balance_after_operation = 0) Λ (C_card_id = 12344) Λ (C_card_id = 12344) Λ (C_card_id = 0) Λ (DB_asked_withdrawal = 0) Λ (DB	$(c_q0 \triangleq ((ATM_state = 3) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_w$		
$((ATM_state = 5) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_card_id $	$(c_q0 \stackrel{\text{def}}{=} ((ATM_state = 6) \land (A_asked_withdrawal = 0) \land (A_balance = 1) \land (A_balance = 1) \land (A_asked_withdrawal = 0) \land$		
$((ATM_state = 7) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balanc$	$ (c_q0 = ((ATM_state = 0) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawa$	$\frac{\text{ATM_signal_connexion}}{\text{ATM_signal_connexion}} \blacktriangleright (c_q0 \stackrel{\text{def}}{=} ((\text{ATM_state} = 0) \land (A_\text{balance} = 0$	
TM_state = 8) Λ (A_asked_withdrawal = 0) Λ (A_balance = 5000) Λ (A_balance = 5000) Λ (DB_card_id = 0) Λ (C_card_pin = 0) Λ (C_ard_id = 0) Λ (C_ard_pin = 0) Λ (DB_card_id = 0) Λ (D	$(c_q0 \triangleq (ATM_state = 5) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal $		
$((ATM_state = 11) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_balance_after_operation = 0) \land (A_card_id = 0) \land (A_$			
ATM_demande_id	$(c_q4 \stackrel{\text{def}}{=} ((ATM_state = 0) \land (A_asked_withdrawal = 0) \land (A_balance_after_operation = 0) \land (A_balance_after_operation = 0) \land (A_asked_withdrawal =$		
$ATM_demande_id$	$(c_q2 \stackrel{\text{\tiny def}}{=} ((ATM_state = 8) \land (A_asked_withdrawal = 0) \land (A_balance = 0)$		
	(c_q5 = ((ATM_state = 0) Λ (A_asked_withdrawal = 0) Λ (A_balance_after_operation = 0) Λ (A_asked_withdrawal = 0) Λ (DB_asked_withdrawal = 0)		
((ATM_state = 12) Λ (A_asked_withdrawal = 0) Λ (A_balance = 0) Λ (DB_card_id = 0) Λ (C_card_id = 0) Λ (C_asked_withdrawal = 0) Λ (DB_card_id = 0	$(c_q0 \triangleq ((ATM_state = 13) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_$		
((ATM_state = 9) Λ (A_asked_withdrawal = 0) Λ (A_balance = 0) Λ (A_balance = 0) Λ (DB_asked_withdrawal = 0) Λ (DB_as	$(c_q0 \triangleq ((ATM_state = 10) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_$		
((ATM_state = 10) Λ (A_asked_withdrawal = 0) Λ (A_balance = 0) Λ (DB_card_id = 0) Λ (C_card_id = 0) Λ (C_asked_withdrawal = 0) Λ (DB_card_id = 0	$(c_q0 \triangleq ((ATM_state = 11) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land (A_balance = 0) \land (A_asked_withdrawal = 0) \land (A_asked_$		
$((ATM_state = 13) \land (A_asked_withdrawal = 0) \land (A_balance = 0) \land$		ATM signal connexion	
CARD_failed_pin ((ATM_state = 7) \(\Lambda \) (A_asked_withdrawal = 0) \(\Lambda \) (A_balance_after_operation = 0) \(\Lambda \) (C_ard_id = 0) \(\Lambda \) (C_ard_id = 0) \(\Lambda \) (C_ard_id = 0) \(\Lambda \) (DB_asked_withdrawal = 0)	$(c_q4 = ((ATM_state = 0) \land (A_asked_withdrawal = 0) \land (A_asked_withdrawal$	ATM_signal_connexion	
		$ATM_signal_connexion $	$ATM_operation_vide $