CONTEXT CruiseCtx
CONSTANTS
    CRUISE_MAX_SPEED
    BUTTON_STATE
    CAR_MAX_SPEED
    CHANGE_STATE
    PEDAL_COMMAND
AXIOMS
    axm1: $CRUISE\_MAX\_SPEED \in \mathbb{N}$
    axm2: $BUTTON\_STATE = \{TRUE, FALSE\}$
    axm3: $CRUISE\_MAX\_SPEED \geq 1000$
    axm4: $CAR\_MAX\_SPEED \in \mathbb{N}$
    axm5: $CAR\_MAX\_SPEED > 1000$
    axm6: $CHANGE\_STATE \in \{TRUE, FALSE\} \rightarrowtail\!\!\!\rightarrow \{TRUE, FALSE\}$
    axm7: $CHANGE\_STATE = \{TRUE \mapsto FALSE, FALSE \mapsto TRUE\}$
    axm8: $CRUISE\_MAX\_SPEED \leq CAR\_MAX\_SPEED$
    axm9: $PEDAL\_COMMAND \subset \mathbb{N}$
    axm10: $PEDAL\_COMMAND = 0 \mathinner{.\,.} 3$
END