
PARKING SHARED RESOURCE

CADT Parking

OPERATIONS

ACTION Enter: *Void*

ACTION Leave: *Void*

SEMANTICS

DOMAIN:

TYPE: *Parking* = \mathbb{N}

INVARIANT: $self \geq 0 \wedge self \leq MAX$

INITIAL: $self = 0$

PRE: true

CPRE: $self < MAX$

Enter

POST: $self^{\text{out}} = self^{\text{in}} + 1$

PRE: true

CPRE: $self > 0$

Leave

POST: $self^{\text{out}} = self^{\text{in}} - 1$