

```

assert NoCarUsedWithZeroBattery {
    no c: Car | (c.state.phase = used) &&
    c.state.batteryLevel = 0
}

assert NoCarWithMoreThanOnePhase {
    all c: Car | (c.state.phase = reserved ) iff
    (!(c.state.phase = used) && !(c.state.phase = charge) &&
    !(c.state.phase = free) && !(c.state.phase =
    parkUnsafeOrChargeOnSite))
    all c: Car | (c.state.phase = used) iff
    (!(c.state.phase = reserved) && !(c.state.phase = charge)
    &&!(c.state.phase = free) && !(c.state.phase =
    parkUnsafeOrChargeOnSite))
    all c: Car | (c.state.phase = charge) iff
    (!(c.state.phase = reserved) && !(c.state.phase = used) &&
    !(c.state.phase = free) && !(c.state.phase =
    parkUnsafeOrChargeOnSite))
    all c: Car | (c.state.phase = free) iff
    (!(c.state.phase = reserved) && !(c.state.phase = used) &&
    !(c.state.phase = charge) && !(c.state.phase =
    parkUnsafeOrChargeOnSite))
    all c: Car | (c.state.phase =
    parkUnsafeOrChargeOnSite) iff (!(c.state.phase = reserved)
    && !(c.state.phase = used) && !(c.state.phase = charge) &&
    !(c.state.phase = free))
}

assert NoEveryPhaseInTheList {
    all c:Car | all l: List | (c in l.cars) iff
    (!(c.state.phase = reserved) && !(c.state.phase = used) &&
    !(c.state.phase = charge) && !(c.state.phase = free))
}

assert NoPairOfWorkersWithSameEmployee {
    all p: PairOfWorkers | all e1,e2: p.employees | e1!=e2
}

```