. .

CAR[G]+

```
year: INTEGER
odometer: INTEGER

feature -- { NONE }
```

require

invariant

feature -- queries model: G

make (a_model: G; a_year: INTEGER; a_miles: like odometer)
-- Initialize a new car with 'a model', 'a year', and an odometer read 'a miles'.

consistent_year: a_year ≥ 1900
positive_miles: a_miles ≥ 0
ensure
proper initialization:

model \sim a_model \wedge year = a_year \wedge odometer = a_miles

-- Increase the odometer read by `a_mileage`.

require

positive_increase: a_mileage > 0

update odometer (a mileage: INTEGER)

ensure
 correct_update: odometer = old odometer + a_mileage

valid_car_year: year >= 1900 valid_mileage: odometer >= 0