12 Union and Short Record Definitions

```
1.
     scheme
       VEHICLE1 =
         class
           type
            Vehicle = Car | Lorry,
            Car :: curr_value : Nat age : Year,
            Lorry :: curr_value : Nat age : Year tonnage : Nat,
            Year
           value
            incr_age : Vehicle → Vehicle
            incr_age(v) \equiv
              case v of
                mk_Car(cv, a) \rightarrow mk_Car(cv, add_one(a)),
                mk\_Lorry(cv, a, t) \rightarrow mk\_Lorry(cv, add\_one(a), t)
              end,
            \mathtt{add\_one}: Year \to Year
         \mathbf{end}
2.
     scheme
       VEHICLE2 =
         class
           type
            Vehicle ==
              Vehicle_from_Car(Vehicle_to_Car : Car) | Vehicle_from_Lorry(Vehicle_to_Lorry : Lorry),
            Car == mk_Car(curr_value : Nat, age : Year),
            Lorry == mk_Lorry(curr_value : Nat, age : Year, tonnage : Nat),
            Year
           value
            incr\_age : Vehicle \rightarrow Vehicle
            incr_age(v) \equiv
              case v of
                 Vehicle_from_Car(mk_Car(cv, a)) \rightarrow Vehicle_from_Car(mk_Car(cv, add_one(a))),
                Vehicle_from_Lorry(mk_Lorry(cv, a, t)) \rightarrow
                  Vehicle_from_Lorry(mk_Lorry(cv, add_one(a), t))
              end,
            \mathtt{add\_one}: Year \to Year
         \mathbf{end}
```