Quiz – Wed 4 Apr 2012

Consider the following class Diagram:

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┌─────────────────────────────┐              ┌─────────────────────────────┐
│       VehicleRegistration   │      *     1 │           Vehicle           │
├─────────────────────────────┤ ───────────▶ ├─────────────────────────────┤
│ ...                         │    vehicle   │ ...                         │
├─────────────────────────────┤              ├─────────────────────────────┤
│ getExpiration() : Date      │              │ getVin() : Integer          │
│ ...                         │              │ ...                         │
└─────────────────────────────┘              └─────────────────────────────┘
```
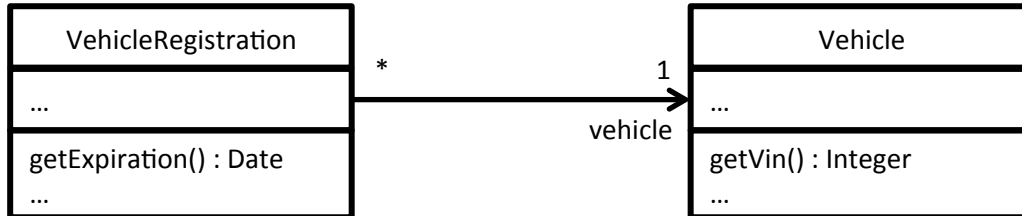
a) Is there coupling between VehicleRegistration and Vehicle? If so, explain the nature of the coupling.
b) Explain the potential consequences if the design of Vehicle is unstable (i.e., prone to change/variation).

Solution:

a) Yes, VehicleRegistration is coupled to Vehicle because VehicleRegistration sends messages to Vehicle, and thus, depends on Vehicle.
b) If the design of Vehicle is unstable then VehicleRegistration may need frequent modification to keep up with the changes to Vehicle's interface.