## Bug Hunting: Data

Each piece of code below contains a bug (won't compile), a style problem (code runs, but is written badly) or both. Can you find them all?

```
No data or pipe ( | ),
    My datastructure =
                                           = instead of colon(:), no end statement
         game(score :: Number,
              playerX :: Number,
                                           data My datastructure:
              targetX :: Number,
                                            game(score :: Number,
#1
              dangerX :: Number)
                                                   playerX :: Number,
                                                   targetX :: Number,
                                                   dangerX :: Number)
                                           end
                                           Type name and constructor function
    data LocationState:
                                           cannot be the same
       locationState(x :: Number,
                       y :: Number)
                                           data LocationState:
#2
    end
                                                location(x :: Number,
                                                           y :: Number)
                                           end
                                           Name definition cannot come before value
    location(640, 480) = MY-LOCATION
                                           MY-LOCATION = location(640, 480)
#3
                                           No commas
    START-LOCATION = location(30 70)
                                           START-LOCATION = location(30, 70)
                                           Fields do not include data types
    data CakeT:
       | cake(flavor,
                                           data CakeT:
              layers,
#4
                                             cake(flavor :: String,
              is-iceCream)
                                                     layers :: Number,
    end
                                                     is-iceCream :: Boolean)
                                           end
    data Vehicle:
                                           Instance fields are placed in the wrong
          vehicle(model :: String,
                                           order, according to the data definition
                  year :: Number,
                  color :: String,
                                           old-car =
                  price :: Number)
                                           vehicle("Honda", 1992, "red", 10000)
    end
#5
                                           No quotes around string values for model
    old-car =
                                           and color
    vehicle("Honda", "red", 10000, 1992)
                                           new-car =
                                           vehicle("Tesla", 2017, "blue",
    new-car =
                                           120000)
    vehicle(Tesla, 2017, blue, 120000)
```