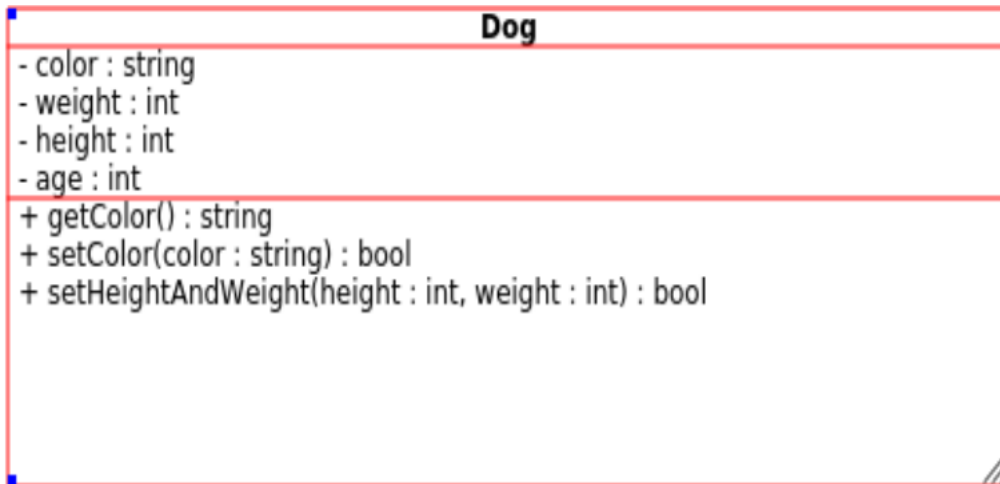


OLQ8

Practice and Review

Part 1



Can you create the class from the class diagram?

Can you write the code for the constructor and the instance methods (if given implementation details) for this class?

Part 2

Can you overload `toString()`?

Do you know how to use `String.format()`?

Do you know how to use a ternary if?

If this class contained a method named `isOld()` that returns `true` if `age > 10` and `false` if `age` is not greater than 10, could you write an overload of `toString()` that

1. returns the string `"My dog is x years old which means my dog is yyy"`
where `x` is filled in by `age` and `yyy` is either `"old"` or `"young"`.

2. uses `String.format()`

The output “My dog is x years old which means my dog is yyy” must be formed using `String.format()`

3. only contains 1 line of code

```
return String.format(.....);
```

Only line of code is allowed in the `toString()` overloaded method and that line must return the string formed by `String.format()`.

In order to get the “old” or “young”, you will need to know how to use a ternary if that uses the return value of `isOld()` to determine whether to print “old” or “young”. This ternary if will be a parameter in `String.format()`.

```
return String.format("My dog is %d ... %s", age, ternary if);
```

THIS IS JUST A PARTIAL STATEMENT – YOU NEED TO FIGURE OUT WHAT TO FILL IN FOR THE ... AND FOR THE TERNARY IF

Part 3

As always, make sure you understand mistakes from past OLQs.