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CS 1632

Deliverable #5

Rubocop Errors Explained

1. driver.rb:4:1: C: Metrics/ClassLength: Class has too many lines. [120/100]

I tried to reduce the number of the lines for the class as much as I could, but I need those extra 20 lines for the program to function properly. A very similar explanation applies to this line as well:

1. driver.rb:109:81: C: Metrics/LineLength: Line is too long. [96/80]

I tried to shorten the line by adding in an extra print statement, but it was not printing out correctly and thus had to deviate from the error as we need the whole line for the program to even function and output properly.

1. driver.rb:57:3: C: Metrics/MethodLength: Method has too many lines. [11/10]

For all the errors that displayed this message, I tried to reduce the number of lines as much as possible, but for some methods could not possibly reduce to 10 or less lines, as for example the method declared on this line required multiple “puts” statements that was essential to printing out the output of the program.

1. city.rb:78:5: C: Style/GuardClause: Use a guard clause instead of wrapping the code inside a conditional expression.

    if current\_location == 'Cathedral'  
  
If I try to use a guard clause, the first thing that is going to happen is that my entire program will break as the program clearly needs to utilize only that if/else structure within the method.

Reek Errors Explained

1. [47]:TooManyStatements: Going#gets\_direction has approx 9 statements [https://github.com/troessner/reek/blob/master/docs/Too-Many-Statements.md]

For the TooManyStatements error, I tried to reduce the number of statements as much as possible by separating the initially huge gets\_direction method into multiple smaller methods, but even though, that all worked, it still was not enough for reek to understand that the method could not be reduced any further. As such I would need to deviate from this warning.

1. [5]:TooManyInstanceVariables: City has at least 5 instance variables

I need all of these instance variables in my program for my program to work properly. I tried to get past it by adding more methods including getters and setters, but it just made my program a lot more complex, and some functions did not perform the way I wanted them to perform. As such, I would need to deviate from this warning because I would need at least five instance variables in this class to make the class function the way it should and ultimately do my best to avoid a TooManyMethods error.

1. [4]:TooManyMethods: Driver has at least 19 methods [https://github.com/troessner/reek/blob/master/docs/Too-Many-Methods.md]

All of these methods made use of instance variables and as such it would be very difficult to restructure the entire program by trying to separate these 19 methods into different classes, which is then why I decided to deviate from this error.

1. [106, 107, 108]:FeatureEnvy: Driver#printing\_text refers to 'location\_arr' more than self (maybe move it to another class?) [https://github.com/troessner/reek/blob/master/docs/Feature-Envy.md]

The main reason I decided to deviate from this error was because for all the featureEnvy warnings I had received, the entire, sole purpose for those methods were to reduce the cyclomatic complexity of the method that would call them. As such, each of these methods would obviously be referencing an object more than it would reference itself.