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**SENG300 - ASG3**

**10155792 – TUT07 - L02**

This check list was taken and modified from [1]

1. Variable, Attribute, and Constant Declaration Defects (VC)
  - Are descriptive and constant names used in accord with naming conventions?
  - are there variables or attributes with confusingly similar name ?
  - is every variable and attribute correctly types and initialized?
  - Could any non-local variable be made local?
2. Method Definition Defects (FD)
  - Are descriptive method names used in accord with naming conventions?
  - Is every method parameter value checked before being used?
  - for every method does it return the correct value at every method return point?
5. Computation/Numeric Defects (CN)
  - Are parenthesis used to avoid ambiguity?
7. Control Flow Defects (CF)
  - Does each switch statement have a default case?
  - Are missing switch case break statements correct and marked with a comment?
  - Does every method terminate?
9. Module Interface Defects (MI)
  - Are the number, order, types, and values of parameters in every method call in agreement with the called method's declaration
10. Comment Defects (CM)
  - Does every, method, class, and file have an appropriate header comment?
  - Does every attribute, variable, and constant declaration have a comment?
  - is the header comment for each method and class consistent with the behavior of the method or class?
  - Do the comments and code agree?
  - Are the enough comments in the code?
11. Layout and Packaging Defects (LP)
  - is a standard indentation and layout format used consistently?
14. Performance Defects (PE)
  - is every result that is computed and stored actually used?
  - are there tests within a loop that do not need to be done?

Code Line #	Description	Severity
14	“ONE” variable does not have to be a global variable	Low
14	“ONE” variable is declared but not used in class	Low
14	“ONE” variable named as a constant. Bad naming	Low
25	This “/” indentation is wrong	Minimal
25	There is no description for the method f1	Medium
33	Method name, f1, is inappropriate	Medium
35	Variable name, z, is an inappropriate name. Not descriptive	Low
36	Switch statement will not terminate	High
37	There is no break for this statement	High
39 / 42	Repetitive case, do the same thing	Low
42	“case2:” indentation is wrong	Low
45	Closing curly bracket, “}”, indentation is wrong	Minimal
46	Semicolon after if statement	High
51	There is no method description for f2	Low
51	Method does nothing	Medium
52	No checks for correct argument input for f2 method	High
56	Incorrect Description of method, there is only 3 arguments not 4 in sum method	Medium
60 / 73	Second is spelled incorrectly	Medium
61 / 74	Description of method is incorrect, there is no 4 <sup>th</sup> argument	Medium
64 / 77	Method name is inappropriate, misleading name	High
64 / 77	Both methods have the same name, sum.	High
65	Putting brackets around operation to make it clearer, (first * second * third);	Minimal
65	No checks for correct argument input for sum method	High
68	Indentation of “/” comment is wrong	Minimal
69 / 75	Description of method states it returns the sum of the the arguments, contradicting itself previously saying it returned largest of the arguments	Medium
78	Method does not return the expected output, returns the third argument.	High
78	No checks for correct argument input for sum method	High
88	Main method does not terminate	High