

Project rubric for (authors' names):

Criterion	Expert (1)	Skilled (2)	Apprentice (3)	Learner (4)	(5)
Appearance	Information clearly, attractively presented. Fonts reflect importance of items. Graphics clarify topics. Structure helps audience to understand.	Information clear and attractive. Font or graphics confusing. Structure helps audience to understand.	Information presented clearly. Font uneven. Structure and graphics are confusing or unclear.	Structure, graphics and text unclear or missing. Fonts uneven.	
Scientific language	Authors' use of technical language shows they understand their subject's background knowledge. They minimise their use of jargon and define all necessary terms and acronyms.	Language shows authors understand the background knowledge of the subject. Jargon is appropriate. Not all terms and acronyms are defined.	Language shows that authors understand the background knowledge of the subject. Too much jargon and undefined acronyms.	Informal language: authors do not seem to understand the subject properly. Some scientific terms incorrectly.	
Code structure	Code is clearly organised and formatted: short, coherent methods, logical indentation , and clear linebreaks (lines under 100 characters) make the code easy to follow.	Code is easy to read with minor formatting/indentation mistakes, e.g.: bracket-matching.	Code is generally easy to follow, but logical formatting is poor.	Code is readable only by someone who knows what it is supposed to be doing.	
Clarity and coherence	Code follows a clear, consistent conceptual metaphor. Program header clearly states this metaphor. Coding components (comments, variable and method names) <i>consistently</i> declare their role by reference to metaphor.	Conceptual metaphor is present, but unclearly stated. Coding components mostly refer to this metaphor for clarity.	Conceptual metaphor is present, but unclearly stated. Relationship of coding components to this metaphor are generally unclear. Use of magic numbers.	Program has no clear conceptual metaphor.	
Comments	Comments indicate clearly what code is doing, using clear, simple language that is appropriately positioned and formatted.	Header and inline comments make the code easier to understand.	Inline comments are embedded in the code and separate logical code sections.	Inline comments are embedded in the code.	
Variable naming	Variables' names express simply and briefly their purpose in the program.	Variable names are awkwardly long but express their purpose clearly.	Variable names express only unclearly their purpose in program.	Variable names express their purpose only very vaguely.	
Data types	Variable types (array, logical, ...) are used efficiently to produce correct results.	Variable types used efficiently to produce mostly correct results.	Variable types are used efficiently but produce incorrect results.	Variable types are used inefficiently/incorrectly.	
Control structures	Control structures (selection, iteration, ...) are used efficiently to produce correct results.	Control structures efficiently used to give mostly correct results.	Control structures used efficiently but produce incorrect results.	Control structures are used inefficiently/incorrectly.	
Modularity (modules, functions)	Modular architecture is clear and easy to follow. Data and method responsibility cleanly factorised into modules to minimise rippling.	Modularity is clear and easy to follow but responsibility allocation permits some rippling.	Modularity is easy to follow but global data permit excessive rippling.	Data-, but not method-, responsibility is allocated modularly.	
Validation	Program fulfils all specifications, and performs exception-checking for errors and out-of-range data.	Program runs and meets all specifications. Performs some checking for entry and range errors.	Program produces correct results but displays them incorrectly. Some checking for entry and range errors.	Program gives correct results but displays them incorrectly. No error-checking.	
Efficiency	The code is highly efficient: stores multiply used data, reduces processing steps without sacrificing readability or comprehensibility.	The code is efficient without sacrificing readability or comprehensibility.	The code is fairly efficient without sacrificing readability or comprehensibility.	Code is inefficiently patched together from mismatching partial solutions.	
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