Program Style Summary and Checklist

Program Format, Style, and Readability

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				Program Structure and Comments Program divided into appropriate functions and procedures Program begins with appropriate comments describing purpose Variables initialized appropriately Every function and procedure begins with pre/post conditions Comments used to describe main sections of work Other comments added to interpret program as needed Parameters used effectively to control passage of data in and out of functions
				Program Readability Program easy to read and understand Descriptive identifiers used Indenting helps clarify program logic and readability Appropriate use of iteration (for, while) and recursion Appropriate use of conditionals (if, switch, Boolean expressions)
				Input and Output Format User reminded what input is required Output appropriately printed and labeled
				Selection of Types and Data Structures Data types model characteristics of problem Variables have appropriate types Appropriate data structure(s) used
				Algorithm Design and Correctness Program meets specifications of problem Algorithms used correctly solve problem Algorithms used are appropriately efficient
<u></u>	=		<u></u>	Testing Numbered list of the full range of circumstances that can arise in problem Listing of all test specific cases with values to be used and expected outcome(s) For non-robot-based tests, runs conducted and identified for all identified cases Comments given regarding program correctness
Ove	rall	Styl	e an	d Format
Bad 			Ex	rcellent Program Structure Program Readability Input and Output Data structures Algorithms Testing