Logic Specification Instructions and Template

Personal Software Process for Engineers

# Table C73: Logic Specification Template Instructions

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| --- | --- |
| Purpose | * To hold the pseudocode logic for each object or modular program element * Use a separate copy of this template for each program. If the program design does not fit on a single template page, either it is too large and should be partitioned into several smaller programs or the pseudocode is at too detailed a level. * If object-oriented design methods are not used, this template should still be used for specifying function, procedure, and main routine logic. |
| Header | Enter the following:   * Your name and today’s date * The program name and number * The instructor’s name * The language you used to write the program * Object/function: List the name of the function being specified together with the object to which it belongs. |
| Includes | * List all the new or unusual includes required by this program. * Project standard includes should not be separately listed. * Where standard includes are used, the statement “*project standard includes*” should be entered. * Includes for abstractions should be included with their design and implementation. |
| Type definitions | * When unusual or special types are used, they should be defined or a reference given to the definition. * To save implementation time, define all or most of the special types in this template. |
| Declaration | * Give the function declaration exactly as it is to be written in the program. * Except where noted, all declarations, initializations, and terminations are defined during implementation. |
| Reference | When a clear understanding of this function requires information not in the design, identify where that information can be found. |
| Logic reference numbers | * Give a standard reference number for each significant logic statement. * Number every procedure call, loop, and conditional statement. * These reference numbers are useful during design reviews and inspections. |
| Program logic | * List the pseudocode for the program. * Use a separate line for each significant function. * Use mathematical or common language statements where needed for clarity. * Include comments where needed to explain the logic. |

# Table C72: Logic Specification Template

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| --- | --- | --- | --- | --- |
| Student |  | | Date |  |
| Program |  | | Program # |  |
| Instructor |  | | Language |  |
| Object |  | Function |  | |

INCLUDES:

TYPE DEFINITIONS:

|  |  |
| --- | --- |
| **Declaration:** |  |
| **Reference:** |  |
|  |  |
|  |  |
| Logic Reference Numbers | Program Logic, in Pseudocode |
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Document Markings

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