Assignment Requirements for loc and module counter program

Personal Software Process for Engineers

# Program Requirements

Write a program to count

* total logical LOC in a program
* total logical LOC in each object or function
* for an object-oriented language, the number of methods in each object

Produce and print

* a single LOC count for the source program file
* separate LOC and method counts for each object along with the object’s name

Example output:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Program Number | Object Name | Number of Methods | Object LOC | Total Program LOC |
| 1A | ABC | 3 | 86 |  |
|  | DEF | 1 | 8 |  |
|  | GHI | 1 | 92 |  |
|  |  |  |  | 212 |

You may enhance Program 2A to make Program 3E (but keep a copy of 2A).

You may update your LOC counting standard (R1) and coding standard (R2) to simplify the design of Program 3E.

Thoroughly test the program. At a minimum, test the program by counting the total program and object LOC in Programs 1A, 2A, and 3E. Include in your test report a table giving the counts obtained. Use the format shown above and in Table D7 from the text (p. 754).

Document Markings

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