Question set 06

Function points measure:

- SW size
- Source code length
- complexity

LOC measures:

- SW size
- Source code length
- complexity

Ratio between documentation and source code length is a metric of:

- Product
- Process
- Resource

Effort invested per FP during SW delivery is a metric of:

- Product
- Process
- Resource

Number of project managers with PM certification is a metric of:

- Product
- Process
- Resource

LOC is a metric that is:

- Programmer dependent
- Technology independent
- Hard to calculate

FP is a metric that is:

- Programming language independent
- Programmer dependent
- Programmer team size dependent

For two pieces of a program which execute the same function, when one is written in assembler and the other in Java, choose what is true:

- Program written in Java has more FP
- Program written in assembler has more FP
- Both programs have equal FP

For two pieces of a program which execute the same function, when one is written in assembler and the other in Java, choose what is true:

- Program written in Java has more LOC
- Program written in assembler has more LOC
- Both programs have equal LOC

Choose what is applicable to Halstead's complexity:

- it is directly calculated from code sample
- same function written in different programming languages will have the same Halstead's complexity
- it analyses the code sample as if it was a sentence

Related to Halstead's complexity, what is true about Purity ratio:

- it compares actual code with estimated "ideal" code
- values above 1 are better than values below 1
- values close to 1 will cause problems with code readability

Cyclomatic complexity:

- Grows with decision points and loops
- Indicates how difficult it will be to test the SW
- Indicates the size of source code per individual independent paths through the program

Which of the following size-based SW metrics is the most difficult to calculate:

- SLOC
- FP
- Cyclomatic complexity

Which of the following SW metrics are complexity-based:

- Halstead’s
- McCabe’s
- KSLOC’s