

VARIABLE - INTEGER (byte, short, int, long)
 - FLOATING POINT (float, double)
 - CHARACTER (char)

ARITHMETIC - +, -, *, /, %
 INTEGER DIVISION - ROUND TOWARD ZERO
 REMAINDER OPERATOR - $(a/m) m + (a \% m) = a$

NUMERIC TYPES

NUMERIC LITERALS - int 34 {0B, 0, 0X} ⇒ {BINARY, OCTAL, DECIMAL}
 TABLE 2.1 double 3.2, .4, 2. (ALWAYS USE X.Y FORMAT) OR ~~3.4D~~ 34D
 ON p45 long 34L
 float 2.6F
 SCIENTIFIC 3.46E+2

READABILITY, '_' CAN GO BETWEEN DIGITS.

NUMERIC CONSTANTS final int SIZE = 100;

OPERATOR PRECEDENCE!
 (APPENDIX C)

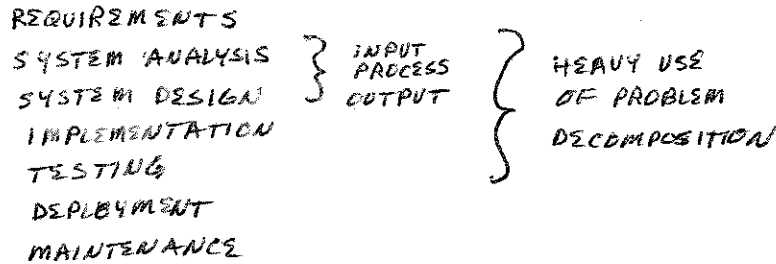
TIME IN MS System.currentTimeMillis()

AUGMENTED ASSIGNMENT: +=, -=, *=, /=, %=

INCREMENT/DECREMENT: ++, --

CASTING WIDENING/NARROWING CONVERSIONS

SOFTWARE DEVELOPMENT PROCESS



COMMON ERRORS UNDECLARED/UNINITIALIZED/UNUSED VARIABLES
 INTEGER OVERFLOW
 FLOATING POINT UNDERFLOW
 ROUND-OFF ERRORS
 UNINTENDED INTEGER DIVISION
 REDUNDANT INPUT OBJECTS