C Operators

- #define or const to define a constant

- Basic athirmetic operators

- Exanded arirthmetic: %, ++, −

- preincriment and postincriment are included

    - a++ uses current value of a, then incriments the value of a
    - ++a uses the new value of a, proceding the incriment.

- Relational operators are the same as Java.

- Bitwise Operators

    - &
    - Binary AND operator copies a 1-bit to the result if it exists in both operands
    - —
    - Binary OR operator copies a 1-bit to the result if it exists in either operands
    - Up Carrot
    - Binary XOR operator, copies a 1-bit to the result if it exists in only one operand
    - Tilde
    - Binary NOT operator, copies a 1-bit to the result if it does not exist in the operand.
    - <<
    - Binary Left Shift operator, the left operands value is moved left by the number of bits specificed in the right operand: $A << 2$
    - Left Shift same as $*2^k$ where k is the number of bits shifted
    - >>
    - Binary Right Shift, the left operands value is moved left by the number of bits specificed in the right operand: $A << 2$
    - Right Shift same as $\frac{}{2^k}$ where k is the number of bits shifted
    - Assignment: $<<=, >>=, \& =$, carrot $=$, tilde $=$