Bitwise Operators

- Bitwise operators in C perform operations on bit level. There are:

    - logic bitwise operators: `&` (bitwise AND), `|` (bitwise OR) and `~` (bitwise NOT).

    - shift bitwise operators: `<<` (bitwise left shift) and `>>` (bitwise right shift).

- <u>Logical shifts</u> (zeros are shifted in) or <u>arithmetic shifts</u> (sign bit is shifted in).

…in selfie

- The semantics of the bitwise operators << and >> on the `uint64_t` type is that of a *logical shift*.

- In selfie there are library functions that perform shift operations (see <u>here</u>):

    - `leftshift(): n << b = n * 2`^{b}

    - `rightshift(): n >> b = n / 2`^{b}

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