

- ▶ You must not use division or multiplication in any part of your code (addition and subtraction are allowed, though); only use shifting (`<<` and/or `>>`) and bit-wise operators (`&` and/or `|`) to extract individual bits;
- ▶ You can create any functions that can help you, but you must call `display()` and `display_32()` functions. Also, you wouldn't need to include any more header files;
- ▶ All 32 bits must be printed out;
- ▶ MSB is the leftmost bit, while LSB the rightmost.

2 Grading

The lab will be graded based on a total of 10 points.

- ▶ **-10:** the code does not compile, or executes with run-time error;
- ▶ **-10:** if used multiplication and/or division and/or modulo operators;
- ▶ **-5:** `display()` and/or `display_32()` are not used;
- ▶ **-5:** included other header files, and/or the starter code was changed (except `main()`);
- ▶ **-5:** no display of binary number and/or the result is incorrect;
- ▶ **-3:** negative numbers are not displayed correctly;
- ▶ **-3:** leading zeros are not printed out;
- ▶ **-3:** the binary number is printed in the reverse order (*i.e.*, MSB is the *right-most*);
- ▶ **-1:** no pledge and/or name in C file.

Earlybird Extra Credit: 2% of extra credit will be given if the lab is finished by Wednesday 11:59PM EST (1 day before the lab deadline). For specific policy, see syllabus.

Attendance: check off at the end of the lab to get attendance credit.

Deliverable

Submit a single `.c` file on Canvas.