Overview

1. Warming up (10 min)

- Sign-in & Attendance.
- Review of last week.
- Homework submission instructions.

2. Tools teaching – Diving into Git (15 ~ 20 min)

- Review of git clone, git pull.
- What is Git? What does Git do? Why should you use it?
- Version control + Cloud backup + Multi-developer cooperation
- Local Git operations: init, add, commit, log, reset.

3. Main Session (50 ~ 70 min)

- Undefined behavior
- Integer promotion
- Binary number representaion
- Arithmetic Types, sizeof, floating-point errors
- Literals
- Operator precedence, associativity, order of evaluation
- * Bitwise operators
- The free Q&A session.

4. Bonus Application (15 ~ 20 min)

- Continue with some basic drawing techniques with C.

Supplementary Materials

- Git Tutorial for Beginners: Learn Git in 1 Hour
- Git basics | GitHub
- IEEE Standard for Floating-Point Arithmetic: 754-2019
- Learn definition of C/C++ overflow with cppreference (homework-related)
- Horner's Method (homework-related)
- 关于位运算妙用的趣味科普向视频：快速平方根算法 | Bilibili

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