

## **Lab Guidelines**



- 1 Lab assignment per week
- Labs are due at the end of the week
  - Working ahead is encouraged
- Attendance is taken and counts for 10%
- Everyone must demo their working solution for each assignment (otherwise 0%)
- Late submission: -50% first day -100% second day
- Lowest grade lab will be dropped
- Everyone must submit source code ( .c and .s files) to Camino
  - Do not submit code you were given (ex: Lab2A-Main.c)
- Collaboration is encouraged, but everyone must submit their own work
- Email TA ahead of time if you have any concerns considering demos/submitting assignments on time

# **Grading Policies**



- Does not compile/execute: 0%
- No demo: 0%
- No commenting: -10%
- Bad indentation/style: -10%

#### Good

```
.syntax
                    unified
                    cortex-m4
        .cpu
        .text
        .thumb func
        .align
                     2
// uint32 t Add1(uint32 t x) ;
        .global
                    Add1
Add1:
                    R0, R0, 1 // add 1 to R0
        ADD
        SUB
                    R1,R1,4
                    R1,L2 // branch to L2 if 0
L1:
       CBZ
                    RØ, R1, 5
       ADD
L2:
       LDRD
                    R3,R12,[R0]
        BX
                    LR
        .end
```

#### Bad (-20%)

```
.syntax
                      unified
                 cortex-m4
    .cpu
        .text
             .thumb func
        .align
        .global
                     Add1
    Add1: ADD
                        R0, R0, 1
        SUB
                     R1, R1, 4
            CBZ
    L1:
                          R1, L2
                     R1, 5
        ADD RO.
L2:
        LDRD
                     R3, R12, [R0]
                 LR
    BX
                 end
```

# **Grading Policies**



### Final grading (No curve)

Α = 93-100 A- = 90-92B+ = 87-89B = 83-86B- = 80- 82 C+ = 77-79С = 73- 76 C-= 70- 72 D+ = 67- 69 D = 63- 66 = 60- 62 D-

= 0-59

## Lab 1: Setup



- Follow instructions from "How to use the GNU Toolchain to Build a Program" on the textbook website
  - Don't worry about the debugging section until Week 3
- Missing instruction:
  - If you have Windows, also download GNU grep for Windows (link located below GNU make for Windows on textbook website) and install "Complete package, except sources" using default settings
- Follow the instructions for Lab 1A: 16-Bit Calculator on your personal machines, or the instructions written on the whiteboard for the lab computers, and demo to me