

## Phase 0: USLOSS Hello World!

August 29, 2019

Due: Tuesday 9/10/19 at 10:00pm

### Overview

For this assignment you will write “Hello World!” in C using the USLOSS library.

### Output

The output from your program should be as follows:

```
1 Hello World!
2 Hello World!!
3 Hello World!!!
...
10 Hello World!!!!!!!!!!!!!!
Goodbye.
```

### phase0.c

The body of your C program must be in the file `phase0.c`. Your program must do the following:

- Define the `startup` function.
  - This function creates two contexts, Hello and World. The Hello context prints “x Hello ” then switches to the World context, where x is the iteration number starting at 1. The World context prints “World!\n” with the number of exclamation points equal to the iteration number, then switches to the Hello context.
  - They should switch back and forth 10 times then call `USLOSS_Halt(0)`.
  - All printing is done via the `USLOSS_Console` function.
  - The contexts should use stacks of size `USLOSS_MIN_STACK`.
  - The loop counter(s) cannot be global variables.
- Define the `finish` function. This function prints “Goodbye.”
- Define the `test_setup` and `test_cleanup` functions. These functions should not do anything.

### Makefile

You must use the provided Makefile that produces an executable called `phase0` from `phase0.c`. Debugging (i.e. ‘-g’) must be enabled when `phase0` is compiled and linked.

### Submission

Submit your `phase0.c` via Gradescope.