

CS102: Week 3

February 11, 2014

Even and Odd

Write, run, and test a C++ program that accepts a user-input integer number and determines whether its even or odd. Display the entered number and the message **Even** or **Odd**.

Fizz Buzz

Write, run, and test a C++ program that accepts a user-input integer number and

- print **Fizz** for multiples of 3
- print **Buzz** for multiples of 5
- print **FizzBuzz** for multiples of 3 and 5

Stop Light

1. Write, run, and test a C++ program that accepts a user-input character representing the current light of the stop light. Determine and the print out what the next light will be. Use a switch statement to complete this task. The valid inputs are: R, G, Y.

```
What is the current light? R
The next light is G.
```

2. Repeat 1, but this time the following inputs are valid: R, r, G, g, Y, y

```
What is the current light? r
The next light is G.
```

Supplement: Boolean Algebra Evaluator

Write, run, and test a C++ program that evaluates a 2 value boolean algebra equation, such as A and B. The program accepts the truth values of A and B and the operation and returns the truth value of the expression.

```
What is the truth value (0,1) of A? 0
What is the truth value (0,1) of B? 1
What is the operation (a, o)? a
The truth value of 0 a 1 is 0.
```