# Assignment 2

For all of these problems, your submission should be a separate .py file.

Your entire submission should be a zipped file containing multiple .py files.

For this entire homework, do not use any functions other than int, input, print, and functions you define.

For the following two problems, Write a program that performs fizzbuzz, outputting numbers from 1 to n, where multiples of 3 (and not 5) are replaced by "fizz", multiples of 5 (and not 3) are replaced by "buzz", and multiples of 15 (5 and 3) are replaced by "fizzbuzz"

### 1. 20 points

Write fizzbuzz without defining any functions.

#### 2. 20 points

Write fizzbuzz without performing any assignment (you will use functions). That is, never use the "=" operator.
You may use the equality operator "==", however.

Edit: You may also not use foreach loops (the keyword "for"), or assignment through +=, \*=, etc.

For the following problems, we assume that all inputs are positive integers. You may use assignment (=) and equality checking (==) freely.

### 3. 15 points

Write a program that computes the sum of two numbers (inputted from the user), with its only arithmetic operation "+= 1", that is, incrementation.

That is, you can add 1 to a variable, but you cannot otherwise perform addition, etc.

## 4. 15 points

Write a program that computes the product of two numbers (inputted from the user), with its only arithmetic operation "+", and incrementation by 1 (+= 1). That is, you may add, but may not use the multiplication operator.

## 5. 15 points.

Write a program that computes exponentiation of two numbers inputted from the user. That is, the user enters n, and then m, and the program calculates n raised to the power m.

You may only use the multiplication operator "\*", addition (+), and incrementation by 1 (+= 1).

### 6. 15 points.

Write a program that computes exponentiation of two numbers inputted from the user, using only incrementation (by 1).