CSCI 135 Software Design and Analysis, C++
Homework 3
Due 2/28/2014

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Problem 1: Collatz
Implement the task of problem 3 of HW2 without using any functions, except the main() function.

Problem 2: FIZZ BUZZ
You have two items, a FIZZ and a BUZZ. Each item has a value and a weight. In addition, you have a bag that can carry a certain maximum weight. You are interested in packing the maximum possible value you can (in the best case you can carry both FIZZ and BUZZ). Write a function called fizzbuzz that accepts as parameters:

- the value and weight of FIZZ

- the value and weight of BUZZ

- the maximum weight that the bag can carry

and returns the maximum **value** that your bag can carry.
In the main function, ask the user to input all values and weights needed, call the function fizzbuzz and output:

- NONE: if the function returns 0

- FIZZ: if the function returns the value of FIZZ

- BUZZ: if the function returns the value of BUZZ

- FIZZBUZZ: if the function returns the sum of the values of FIZZ and BUZZ