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