## 1 - FizzBuzzPop

Count from 1 to 100.

However, for multiples of 3, replace the number with Fizz. Replace multiples of 5 with Buzz, and replace multiples of 7 with Pop.

If the number is a multiple of more than one of these numbers, then output both words.

For example if it was from 1 to 10: 1 2 Fizz 4 Buzz Fizz Pop 8 FizzBuzz

Output the result as a string with spaces in between each element of the sequence

## 2 - Pythagorean primitive triples

Given 3 integers, determine whether or not the 3 integers are a pythagorean triple. A pythagorean triple is a set of 3 numbers in which all of the elements are co-prime (has a highest common factor of 1).

The input is on a single line, with each integer separated by a space. Output a single integer, 0 if it's not a pythagorean triple and 1 if it is.

For example:

Input:

>235

Output:

>1

## 3 - Square coordinates

Given 4 cartesian coordinates that represent a square on a cartesian plane, output the number of points with integer coordinates that lie within, or on the sides of the square.

The input is given in a 2x4 2D array denoting the x y coordinates of each point that makes up the square in a clockwise direction.

Output a single integer denoting the number of points.

For example:

Input:

>[[1,1],[1,-1],[-1,-1],[-1,1]]

Output:

>9 (4 vertices, 4 on the edges, 1 within)

