1 - Quadrant Position

You are give an positive (x and y) cartesian coordinate in the form of a string, with the x and y separated by a space. Your task is to reflect the coordinate onto the other four quadrants of the plane in a clockwise direction. E.g. positive x, negative y will be on the first line of output.

Output the result on 3 lines, each line with a x and y coordinate separated by a space.

For example:

Input:

>11

Output:

>1-1

>-1-1

>-11

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 - Password!

Oh no! You forgot your password to your safe. Luckily, your safe has no limit to password attempts, and you vaguely remember the digits of your password. The values that you remember are adjacent to the correct value, or could be the correct value itself (e.g. if you remember 2, the correct value can be 1,2,3 or 5).

Given a string of 3 integers separated by a spaces, return an array or list of all the possible combinations(in string format) of passwords, # and * are not included. The keypad used can be found at the bottom right.

For example:

Input: >123

The first 3 elements on the array or list may be: ['1 2 3', '1 2 2', '1 26']

