

# [PI005] - Triangle Validator

A geometric explorer, Alex, is working on classifying different sets of three line segments. Given three lengths, Alex wants to determine whether they can form a valid triangle. Your task is to help Alex by implementing a program that checks the triangle inequality theorem.

A valid triangle can be formed if and only if the sum of any two sides is greater than the third side. Your task is to determine whether the given numbers satisfy this condition.

## Input

You are given as input three integers, a, b, and c.

## Output

A single line stating whether the numbers form a triangle or not. If the numbers form a valid triangle, print **(a, b, c) defines a triangle**. Otherwise, print **(a, b, c) cannot define a triangle**.

## Input/Output Examples

Input 1	Output 1
3 4 5	(3, 4, 5) defines a triangle

Input 2	Output 2
0 0 0	(0, 0, 0) cannot define a triangle

