ALGORITHM

START

Declare a, b, c as integers.

CLAIM user to enter value for a

CLAIM user to enter value for b

CLAIM user to enter value for c

IF the addition of a and b is greater than c

AND the addition of a and c is greater than b

AND the addition of b and c is greater than a

PRINT this is a valid triangle

IF a, b, and c are equal

PRINT this is an equilateral triangle

IF ELSE a and b are equal or b and c are equal or a and c are equal

PRINT this is an isosceles triangle

ELSE a, b and c are three different value

PRINT this is a scalene triangle

END