import java.util.Scanner;

public class TestCases {

public static void main(String arghs[]){

System.out.println("A program to find 3rd angle of triangle and its type.");

Scanner input=new Scanner(System.in);

double a1=0;

try{

System.out.println("Enter angle 1 of triangle.");

a1=input.nextDouble();}

catch(Exception e){

System.out.println("Invalid values for angle");

}

System.out.println("Enter angle 2 of triangle.");

double a2=input.nextDouble();

double a3=180-a1-a2;

if(a1+a2>=180||a1+a3>=180||a2+a3>=180){

System.out.println("Invalid angles, cannot draw a triangle");

return;

}

else{

System.out.println("Third angle is = "+a3);

}

if(a1==a2||a2==a3||a1==a3){

System.out.println("This triangle is isoceles triangle.");

}

else if(a1==a2&&a2==a3){

System.out.println("This triangle is Equilateral triangle");

}

else{

System.out.println("This triangle is Scalene triangle");

}

}

}