

CS 100 Exercise 3: Java Conditionals
Summer 2001
Due in lecture, Friday June 29

Name: _____ **CUID:** _____

1. Objective

The purpose of this exercise is to experiment with conditional statements in Java.

2. Geometry

A *right* angle measures exactly 90 degrees. Smaller angles are termed *acute*, and larger angles are *obtuse*. Assume **angle1** is a type **double** variable that represents the size of an angle in degrees.

// Fill in the blanks with appropriate conditional expressions:

```
if ( _____ )
{
    System.out.println("Angle 1 is acute.");
}
else if ( _____ )
{
    System.out.println("Angle 1 is obtuse.");
}
else
{
    // Output an appropriate message
    System.out.println("_____");
}
```

The keyword **else** appears in two places in this code fragment. What would the output look like if we removed the first **else** and **angle1** had the value 30?

A triangle is composed of three line segments. If all three are the same length, then it is an *equilateral* triangle. Assume **a**, **b**, and **c** are type **int** variables that represent the lengths of the three sides of a triangle.

// Fill in the blank with an appropriate conditional expression:

```
if ( _____ )
{
    System.out.println("It's an equilateral triangle.");
}
```