

Name (PRINTED): _____

Student ID #: _____

Section # (or TA's: _____
name and time)

CMSC 131

Quiz Snow

Spring 2009

1. (8 points) Give a brief definition for each of the following terms as used in Java. All you need to do is to tell its purpose.

(a) stack

(b) heap

(c) parameter/argument

(d) class/object

2. Assume you are working with the following class. Assume there are no other instance variables or methods.:

```
public class Dancer {  
    public int height;  
    public double weight;  
  
    public void spin(int count,String direction) {  
        ...  
    }  
}
```

- (a) (2 points) Write a single statement that declares a Dancer variable and assigns to it a new Dancer object.
- (b) (3 points) For the Dancer object created in part a, write statements that will set the height to 64 and the weight to 110.
- (c) (3 points) Write a statement that will cause this same Dancer object to spin to the "right" a total of 20 times by using the spin method.

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3. (4 points) What will be the output from the following code fragment?

```
String x = new String("dog");
String y = new String("dog");
String z = x;

if (x.equals(y)) {
    System.out.println("A");
} else {
    System.out.println("B");
}
if (x == y) {
    System.out.println("C");
} else {
    System.out.println("D");
}
if (z.equals(x)) {
    System.out.println("E");
} else {
    System.out.println("F");
}
if (z == x) {
    System.out.println("G");
} else {
    System.out.println("H");
}
```