Software Design I (CS 120) Quiz 07: Tuesday, 04 April 2017

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(1) (7 points) Below, there is code for a complete Java class. This class contains a number of methods and variables. In the table at the bottom of the page, indicate where each variable is available for use. For instance, if the variable identifier is recognized inside the main() method only, then you would check the box in the main() column, and leave the others blank. If a variable can be used by two methods, then check the boxes for both of those methods.

For the column labeled *Outside*, you should only check boxes on variables that are accessible to *other classes* besides Driver itself (that is, we check the box if and only if we can access these variables directly by name after creating a Driver instance).

Please note: I am *not* asking whether or not the variable is *actually used* in the given scope; you should check all boxes corresponding to scopes in which that variable *could be* accessed, if desired.

```
public class Driver
    private double dub1;
    public double dub2;
    public Driver()
        int i = (int) dub1;
    public int integerRoot( int n )
        double dub3 = Math.sqrt( n );
        return (int)( dub3 );
    }
    private void printTimes( String str, int count )
        while ( int count > 0 )
            System.out.println( str );
            count--;
        }
    }
}
```

Identifier	Driver()	<pre>integerRoot()</pre>	<pre>printTimes()</pre>	Outside
double dub1				
double dub2				
double dub3				
int i				
int n				
int count				
String str				

(2) (3 pts.) Give the values of the three integer variables obtained by calling the method below. Assume the code to call the method is part of the same class as the method.

```
private int aba( int x, int y )
{
   int div = x / 3;
   return y - div;
}

(a) int b1 = aba( 9, 6 );

(b) int b2 = aba( 6, 9 );

(c) int b3 = aba( 10, 6 );
```

(3) (5 pts.) Write a method below that takes in an integer as input and returns a boolean value. That value should be true if the input is an even number that is strictly greater than 10, and false otherwise.