Software Design I (CS 120)
Quiz 10: Wednesday, 03 May 2017

NAME _____

(1) (*5 points*) The class below needs to be completed so that it can properly handle the events that are generated by the two buttons it contains. (You can assume that the buttons have been created properly.) Fill in the blank at the top of the class, along with the `actionPerformed()` method; complete that method so that, when each button is pressed, a different message is printed out, using standard `System.out`.

```
import java.awt.event.*;
import javax.swing.JButton;

public class Main _____

{
    private JButton button1, button2;

    // Assume all code to create and set up the buttons is complete.

    public void actionPerformed( ActionEvent e )
    {









    }
}
```

(2) (*10 points*) The class below uses a supplier class called `ArrayWorker`. For the code to work, that supplier class must have the following methods:

- A **constructor** that takes in an integer array as input, and saves a reference to it, so that it can be used by the class methods later on.
- A method called `printArray()` that prints the contents of the array, start to end; elements should appear on the same line, with a single space between them, and with brackets [...] at each end of the data. A line-break should be printed after the closing bracket.

Thus, when the class below is run, we will see output as follows:

```
input1: [ -1 0 3 2 1 ]
input2: [ ]
```

On the next page, write the code for the supplier class so that these methods will work properly.

```
public class Main
{
    public static void main( String[] args )
    {
        int[] input1 = { -1, 0, 3, 2, 1 };
        ArrayWorker worker = new ArrayWorker( input1 );
        System.out.print( "input1: " );
        worker.printArray();

        int[] input2 = {};
        worker = new ArrayWorker( input2 );
        System.out.print( "input2: ");
        worker.printArray();
    }
}
```

```
// write the supplier class here
```