

Signature _____

CSE 8B

Name _____

Quiz 5

cs8b _____

Winter 2015 Student ID _____

This quiz is to be taken **by yourself** with closed books, closed notes, no calculators.

Use the **letters** provided to fill in the blanks to define a class to handle button press events in JavaFX.

```
class MyButtonPressEventHandler implements _____ D < _____ M > {  
  
    @Override  
    public void _____ F ( _____ M e ) {  
        System.out.println( "Button Pressed" );  
    }  
}
```

- A) ButtonHandler
- B) ButtonPressHandler
- C) PressHandler
- D) EventHandler
- E) ActionHandler

- F) handle
- G) handleButtonPress
- H) handleButtonEvent
- I) handlePress
- J) handleEvent

- K) ButtonEvent
- L) ButtonPressEvent
- M) ActionEvent
- N) ActionPress
- O) ButtonAction

How do you register the above event handler with a Button?

```
Button button = new Button( "Press Me" );  
MyButtonPressEventHandler handler1 = new MyButtonPressEventHandler();
```

```
button._____ D ( handler1 );
```

- A) setOnPress
- B) setOnEvent
- C) setOnHandler
- D) setOnAction
- E) setOnButtonPress

What is true with having an event handler defined as a member inner class of the GUI class that is defining the GUI components this event handler is registered to handle events on? _____

- A) Event handler class can be defined private
- B) Event handler code can directly access any of the private members of the outer GUI class
- C) Event handler class cannot be defined private
- D) Event handler code cannot directly access any of the private members of the outer GUI class
- E) Both A and B
- F) Both C and D

In the Java graphics coordinate system, where is (0,0)? _____ **C**

- A) Center of the pane
- B) Upper right corner
- C) Upper left corner
- D) Lower right corner
- E) Lower left corner

Using the code segment below, answer the questions in the question boxes to the right. **Write the letter** of the correct answer in the space provided for each question.

```
try {  
    // Block A  
}  
catch ( ExceptionType1 e1 ) {  
    // Block B  
}  
catch ( ExceptionType2 e2 ) {  
    // Block C  
}  
finally {  
    // Block D  
}  
// Block E
```

Which code block will always be executed whether or not an exception occurs or is caught? D

- B) Block B D) Block D
C) Block C E) Block E

Which code block will execute the normal code which may cause an exception we want to catch? A

- A) Block A D) Block D
B) Block B E) Block E
C) Block C

Which code block should have code to handle the most general exception type (higher in the hierarchy)? C

- A) Block A D) Block D
B) Block B E) Block E
C) Block C

Under what circumstance(s) will code block E be executed? _____

- A) No exception occurs
B) Exception occurs and is not caught
C) Exception occurs and is caught with no return statement in catch block
D) A&B F) B&C
E) A&C G) A&B&C

Fill in the missing parts in the class designed to be used with threads below

```
public class Computation implements Runnable {  
    private final int startRange;  
    private final int endRange;  
    private final byte[] array;  
    private long mySumSquared;  
  
    public Computation( int start, int end, byte[] arr ) {  
        this.startRange = start; this.endRange = end;  
        this.array = arr; this.mySumSquared = 0;  
    }  
  
    @Override  
    public void run () {  
        for ( int i = startRange; i < endRange && i < array.length; i++ ) {  
            mySumSquared += array[i]*array[i];  
        }  
        System.out.println( "Sum Squared = " + mySumSquared );  
    }  
}
```

Write the code to create a **single** thread which executes the Computation object above and to get that thread running.

```
byte[] arr = // code to create array here.  
int start_val = 0;  
int end_val = arr.length;
```

Computation c = new Computation(start_val, end_val, arr) ;

Thread t = new Thread(c) ;

t. start() ;