

Signature _____

CSE 11

Name _____

Quiz 4

cs11f _____

Fall 2009

Student ID _____

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

What is the output produced by the following program? (Hint: draw stack frames)

```
public class Mystery
{
    public static void main( String[] args )
    {
        Mystery ref = new Mystery();

        System.out.println( ref.mystery( 7 ) );
    }

    private int mystery( int a )
    {
        int b = a + 3;

        if ( b >= 8 )
        {
            System.out.println( b );
            b = a + mystery( a - 1 );
            System.out.println( a );
        }
        else
        {
            System.out.println( "Whoa!" );
            b = a;
            System.out.println( a );
        }

        return b;
    }
}
```

Output

We have done a couple GUI programming assignments. What interface does an event handler need to implement to listen for and handle events on a JButton (button) in Java? _____

What method does this object need to provide to satisfy this interface and handle the event fired by a button?

public void _____ (_____ evt) { ... }

Given the following expressions, indicate whether the expressions evaluate to true or false.

```
String s1 = new String( "CSE 11" );  
String s2 = "CSE 11";
```

s1 == s2 _____

s1.equals(s2) _____

```
s2 = s1;
```

s1 == s2 _____

s1.equals(s2) _____

Given the following array declaration:

```
int[] a = { 1, 3, 5, 7, 9 };
```

Fill in the blanks to print out each element:

```
_____ ( int i = _____ ; i < _____ ; _____ )
```

```
System.out.println( _____ );
```