Signature	CSE 11	Name
	Quiz 4	
cs11f	Fall 2011	Student ID

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

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

```
public class Swap
  private int a;
  public Swap( int a )
    this.a = a;
  public void swap( int a, int b )
    int tmp;
    tmp = a;
    a = b;
    b = tmp;
  public void swap( Swap ref )
    int tmp;
    tmp = this.a;
    this.a = ref.a;
    ref.a = tmp;
  public static void main( String[] args )
    int a = 15;
    int b = 20;
    Swap ref1 = new Swap(5);
    Swap ref2 = new Swap(10);
                                            Output
    refl.swap( a, b );
    System.out.println( a );
    System.out.println( b );
    ref1.swap( ref2 );
    System.out.println( ref1.a );
    System.out.println( ref2.a );
}
```

What is the initial value of each array element in the following arrays?

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int[] a = { 1, 1, 2, 3, 5, 8, ... }; // You do not know how many values are in the initializer list

Fill in the blanks to print out each element:

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

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

Now do the same using a foreach (enhanced for) loop:

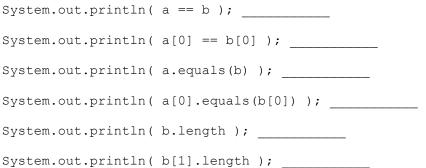
```
_____ ( int i _____ )
System.out.println( _____ );
```

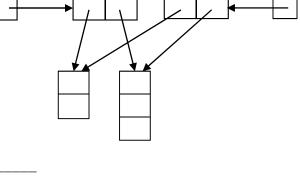
Now do the same using a while loop:

In general, if you override the equals() method you should also override the _____ method.

Given the following diagram of an array of array:

What is the output from the following:





Write the code to check for exact type equivalence between two objects referenced by variables o1 and o2:

```
if (
    System.out.println( "o1 and o2 reference the exact same type of object" );
else
    System.out.println( "o1 and o2 reference different types of objects" );
```