

References:

Sample 1:

The file `OneInt.java` contains the following implementation of the `OneInt` class:

```
public class OneInt
{
    public int value;

    public OneInt (int value)
}

```

The file `TwoInts.java` contains the following implementation of the `TwoInts` class:

```
public class TwoInts
{
    public int int1;
    public OneInt int2;

    public TwoInts (int int1, OneInt int2)
}

```

The main method in the file `MainClass.java` uses the above classes:

```
public class MainClass
{
    public static void main(String[] args)
    {
        OneInt x = new OneInt(5);
        OneInt y = new OneInt(7);
        TwoInts a = new TwoInts(x.value, x);

        // Part 1 - draw the object diagrams at this time

        x.value = 3;
        x = new OneInt(8);
        a.int1 = y.value;
        y = a.int2;
        a.int2 = new OneInt(9);

        // Part 2 - draw the object diagrams at this time
    }
}

```

When `java MainClass` is executed,

Part 1: draw the object diagrams for all identifiers of `OneInt` and `TwoInts` when the comment line `// Part 1 - draw the object diagrams at this time` is reached.

Part 2: draw the object diagrams for all identifiers of `OneInt` and `TwoInts` when the comment line `// Part 2 - draw the object diagrams at this time` is reached.

Sample 2:

The file `AnInt.java` contains the following implementation of the `AnInt` class:

```
public class AnInt
{
    public int data;

    public AnInt (int data)
}
```

The file `MoreInts.java` contains the following implementation of the `MoreInts` class:

```
public class MoreInts
{
    public AnInt there;
    public int here;

    public MoreInts (AnInt there, int here)
}
```

The main method in the file `MainClass.java` uses the above classes:

```
public class MainClass
{
    public static void main(String[] args)
    {
        AnInt x = new AnInt(3);
        AnInt y = x;
        MoreInts a = new MoreInts(new AnInt(7), 6);

        // Part 1 - draw the object diagrams at this time

        y = a.there;
        y.data = a.here;
        a.here = x.data;
        x = new AnInt(1);

        // Part 2 - draw the object diagrams at this time
    }
}
```

When `java MainClass` is executed,

Part 1: draw the object diagrams for all identifiers of `AnInt` and `MoreInts` when the comment line `// Part 1 - draw the object diagrams at this time` is reached.

Part 2: draw the object diagrams for all identifiers of `AnInt` and `MoreInts` when the comment line `// Part 2 - draw the object diagrams at this time` is reached.