

Quiz #3 Answers

1. Trace through the following code. Write down what it would print out.

```
for(int i=0; i<10; i++) {  
    System.out.println(i*i);  
}
```

Output:

```
0  
1  
4  
9  
16  
25  
36  
49  
64  
81
```

2. Imagine a Greenfoot world that is a 10x10 grid of cells. Each cell contains one Dot actor. Complete the method below from the World class that removes all the Dots on the argument row.

```
public void removeRow(int row) {  
    List<Dot> dots=getObjects(Dot.class);  
    for(int i=0; i<dots.size(); i++) {  
        Dot d=dots.get(i);  
        if(d.getY()==row) {  
            removeObject(d);  
        }  
    }  
}
```

or

```
for(int i=0; i<getWidth(); i++) {  
    removeObject(getObjectsAt(i,y,Dots.class));  
}
```

Extra Credit: Write a for loop that prints all the numbers from 100 to 1 (inclusive), greatest to least.

```
for(int i=0; i<100; i++) {  
    System.out.println(100-i);  
}
```

or

```
for(int i=100; i>0; i--) {  
    System.out.println(i);  
}
```