Unit 6 Practice #2                                    Name: _____

| 1. What is printed when you run this code? | 2. What are the contents of this array when this code has run? |
|---|---|
| ```java<br>int[] nums = {3,4,7,6,9,2,11};<br>for(int i = nums.length-1; i>-1; i--)<br>{<br>  if(nums[i]%2==0)<br>    System.out.print(nums[i]+1);<br>}<br>``` | ```java<br>int[] nums = {3,4,7,6};<br>for(int i = 0; i<nums.length; i++)<br>{<br>  nums[i]=nums[i]+nums[i]%2;<br>}<br>``` |

Problems 3 through 5 all use the Frog class and are all go together.

| 3. Given the Frog class to the right, write code that creates a Frog array named pond to hold 500 Frog objects and then instantiates each element. | ```java<br>class Frog<br>{<br>  private int location;<br>  public Frog() {location=0; }<br>  public void hop(int n) {location+=n; }<br>  public int getLocation() {return location;}<br>  public String toString() {String temp = "";<br>    for(int i = 0;i<location;i++){ temp+=".";}<br>    return temp+"@";<br>  }<br>}<br>``` |
|---|---|

4. Write code to hop each Frog in the array **pond** a random value from 10 to 50 inclusive.

5. Write code to report the average location of all of the Frog objects in the **pond** array. (You will use the .getLocation() method which returns an int value of a specific Frog object's location.) Print the average as a double.

6. Write code which changes all elements of String array arr to be upper case.

```java
String[] arr = //initialized with valid data;
```

7. Write a method dupPresent that accepts a String array named **names** and returns true if one or more duplicates are present, false if no duplicates are present.

| 8. Write a <u>regular for loop</u> to print all the elements of an int array **nums** on a single line: | 9. Write an <u>enhanced for loop</u> to add all the elements of an int array **nums** in the variable **total**. |
|---|---|
| `int[] nums = //initialized with valid data;` | `int[] nums = //initialized with valid data;`<br>`int total – 0;` |

10. Write code that prints all elements of the String array words which end in "ly".

`String[] words = //initialized with valid data;`