Queens College, CUNY Computer Science 212 **PM** – Fall 2020 – Exam 1

Last name	First name	Row:Seat:
Question 1: (25 pts.)		
Write a complete main method that de	oes the following:	
and will print to the console the array)	st two, command line arguments which e number of words of that end with a command line arguments, throw an Illega	ligit. (Hint: loop through the args
For example,		
C:>java Question1 Mary ha8 a There are 2 words that end w		
public class Question1 {		
public static void main	n (String args[]) {	
<pre>} //main } // class Question1</pre>		

Question 2: (25 pts.)

Write a method called *findNums* that takes a two-dimension array of integers as a parameter and returns the number of times a two-digit number appears in the array. For example, if the array (as created by the program below) is

```
10 45 3 8
2 42
3 21 44
```

The value returned would be 5 (there are 5 two-digit numbers in the array)

```
public class Question2 {
  public static void main(String args[]){
     int arr[][] = \{\{10, 45, 3, 8\}, \{2, 42\}, \{3, 21, 44\}\};
     System.out.println("The number of two digit numbers is "+findNums(arr));
   } //main
  public static int findNums (int [][] myArray) {
```

```
} // findNums
} // class Question2
```

Question 3: (25 pts.)

Write a main method that will request the user to enter Strings using a JOptionPane input dialog. The method should continue accepting strings until the user types "STOP".

Then, using a JOptionPane message dialog, tell the user how many of the strings have an odd length.

```
public class Question3 {
  public static void main (String[] args) {
```

Question 4: (25 pts.)

Write a class called **Pen** that contains the following information:

- 1. Private instance variables for the price of the pen (float) and color of the pen (String).
- 2. A two-argument constructor to set each of the instance variables above. If the price is negative, throw an IllegalArgumentException stating the argument that is not correct.
- 3. Get and Set methods for each instance variable with the same error detection as the constructor.

<pre>public class Pen {</pre>		