Your Next Assignment will be in Java:

- Create a text File, "input.txt"
- Give your text file 10 records of the following
 - StringName and intNumber
 - They needn't be on separate lines, just separated by spaces

My input.txt looks like the following: Otto 100 Fred Create a class with three instance variables 220 String: stringName **mUTATANK** 123 int: intNumber **CEZTRUCTOR** boolean: isPalindrome 990 ibstantla 001 Create an appropriate constructor Astance

- - o When you instantiate you will read-in names and numbers as seen
 - o You may initially set all isPalindrome variables to false upon instantiation if you wish

500

- Create appropriate accessors and mutators
- Once you have read in all records (my test file will have 50 records) you are to do the following:
 - o Check each stringName to see if it is a non-case-sensitive palindrome (Otto is considered a palindrome), and set the Boolean isPalindrome to "true" if is is.
 - You are then to go through and capitalize the first letter of stringName, and set the remaining characters to lowercase.
 - You are then to write this altered data to the console (System.out.println())
 - Note P for Palindrome and NP is not a Palindrome

Otto 100 P Fred 220 NP Mutatank 123 NP Ceztructor 990 NP Ibstantia 001 NP Astance 500 NP

Etc...

Note that we are creating an array of 50 elts of our Class type. This code is provided for you as is the reading-in of strings and integers

Some helpful info:

My main file:

```
import java.io.*;
import java.util.*;
public class september28 {
    public static void readInRecords (String fileName, ToolBox[] x)
    throws FileNotFoundException {
        //int count = 0; ??
        File fileText = new File(fileName);
        Scanner s = new Scanner(fileText);
        while (s.hasNext() == true ) {
            String word = s.next();
            int num = s.nextInt();
            //call to creator here ??
        }//while
      }//end method
    public static void main(String[] args)
            throws FileNotFoundException{
        //array declaration of type ToolBox
        ToolBox[] records = new ToolBox[50];
        readInRecords ("input.txt", records);
    }//main
}//class
```

My class file:

```
public class ToolBox {
    //these are class instance variables
    private String classText;
    private int classNumber;
    private Boolean isPalindrome;
    //will need a creator for sure here
}//end class
```

As you can see we wrote a method, readInRecords within our *main class*, September 28. Anything that belongs to a class, but an instance of a class is **static**. So, if you chose to write functions in your main program, they must be static. **Mark Breakdown:**

Part Marks:

 Appropriate files (class, main input file) structure 5 Accessors 5 Mutators 5 Constructors 5 5 File Reading Commenting 5 **Output (upper/lower case formatting)** 5 The darn¹ thing works 15

Total: 50 marks

¹ People sometimes use darn or darned **to emphasize what they are saying**, often when they are annoyed. [informal, emphasis] There's not a darn thing he can do about it. Collins.