Recursion

Extra credit assignment (worth 1 point in the quiz category)

Do the following five recursion problems

From https://practiceit.cs.washington.edu:

use the keyword "recursive tracing" and do 143 Practice Midterm 1:

For each call to the following method, indicate what value is returned:

```
public static int mystery(int n) {
    if (n < 0) {
        return -mystery(-n);
    } else if (n < 10) {
        return (n + 1) % 10;
    } else {
        return 10 * mystery(n / 10) + (n + 1) % 10;
    }
}</pre>
```

• Use the keyword "recursive programming" and do

From https://codingbat.com:

select Java -> Recursion 1 and do bunnyEars, powerN and countHi2

Java Python

Recursion-1 And And And Chance

Basic recursion problems. Recursion strategy: first test for one or two base cases that are so simple, the answer can be returned immediately. Otherwise, make a recursive a call for a smaller case (that is, a case which is a step towards the base case). Assume that the recursive call works correctly, and fix up what it returns to make the answer.



For each problem, include a screenshot of your work in a text file and upload your work to Canvas as	а
pdf file by the due date given on the class website.	

Good luck!