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CSCI260 – W03
Assignment #7

```
1    /*
2     * Create a program that uses recursion to count by 10's starting from a specific number that is
3        collected by the user. Stop after 20 recursive iterations. Please display the original number
4        AND each incremental number after it is computed
5     */
6
7    import java.util.Scanner;
8
9    public class RecursionChallenge {
10       public static int x;
11
12       public static void countBy10(int numIterations) {
13           if (numIterations <= 0) {
14               return;
15           }
16
17           x+=10;
18           System.out.println("The number is: " + x);
19
20           countBy10(numIterations-1);
21       }
22
     Run | Debug
23       public static void main(String[] args) {
24           Scanner input = new Scanner(System.in);
25           System.out.println(x:"Enter a number: ");
26           x = input.nextInt();
27
28           input.close();
29
30           countBy10(numIterations:20);
31       }
32   }
```

```
Enter a number:
5
The number is: 15
The number is: 25
The number is: 35
The number is: 45
The number is: 55
The number is: 65
The number is: 75
The number is: 85
The number is: 95
The number is: 105
The number is: 115
The number is: 125
The number is: 135
The number is: 145
The number is: 155
The number is: 165
The number is: 175
The number is: 185
The number is: 195
The number is: 205
```