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/*
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 * and open the template in the editor.
 */
package assignmentanalysis;

/**
 *
 * @author Paul
 */
public class AssignmentAnalysis {

    static int count;

    public static void function_one(int n)
    {
        count++;
        System.out.print(n+" ");
        if ( n > 1 )
        {
            function_one(n-1);
            function_one(n-1);
        }
    } //End Function 1

    public static void function_two(int n)
    {
        count++;
        System.out.print(n+" ");
        if ( n > 1 )
        {
            function_two(n-1);
            function_two(n/2);
        }
    } //end function 2

    public static int function_three(int n)
    {
        count++;
        System.out.print(n+" ");
        if ( n > 1 )
        {
            return function_three(n/2)+function_three(n/2);
        }
        return 1;
    } //end Function 3

    public static void count_down(int n)
    {
        count++;
        System.out.println(n);
        if ( n > 1 )
            count_down(n/2);
    } //End Count Down

    public static void main(String[] args) {
        for(int i=1;i<10;i++)
        {
            count=0;
            function_one(i);
            System.out.printf("n=%d, count=%d\n", i, count);
        }

        for(int i=1;i<10;i++)
        {

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        count=0;
        function_two(i);
        System.out.printf("n=%d, count=%d\n", i, count);
    }

    for(int i=1; i<10; i++)
    {
        count=0;
        function_three(i);
        System.out.printf("n=%d, count=%d\n", i, count);
    }

    for(int i=1; i<10; i++)
    {
        count=0;
        count_down(i);
        System.out.printf("n=%d, count=%d\n", i, count);
    }
} //end Main

} //end Assignment Analysis
```