## MVC Views Part 1 - Individual Exercises

## 1. FizzBuzz

Modify the fizzBuzz.jsp page.

Create an unordered list with the id fizzbuzz that contains a list of numbers from 1 up to and including the number. However, the number should be replaced given the following rules:

- If the number is divisible by 3, show "Fizz!" and apply the fizz class to the element.
- If the number is divisible by 5, show "Buzz!" and apply the **buzz** class to the element.
- If the number is divisible by both 3 and 5, show "FizzBuzz!" and apply the class fizzbuzz to the element.

For instance, given the number 20, the expected output should be:

```
ul id="fizzbuzz">
 1
                                 • 1
 >2
 class="fizz">Fizz!
                                 Fizz!
 4
 class="buzz">Buzz!
                                 Buzz!
 class="fizz">Fizz!
                                 Fizz!
 7
                                 • 7
 8
                                 • 8
 class="fizz">Fizz!
                                 Fizz!
 class="buzz">Buzz!
                                 Buzz!
 11
                                 • 11
 class="fizz">Fizz!
                                 Fizz!

 13

 13

 14

 14
                                 FizzBuzz!
 FizzBuzz!
 16

 16

 17

    17

 class="fizz">Fizz!
                                 Fizz!
 19

 19

                                 Buzz!
 class="buzz">Buzz!
```

## 2. Fibonacci

Modify the fibonacci.jsp page that displays the numbers of the Fibonacci sequence up to 25.

Create an unordered list with the id **fibonacci** that contains list item elements for each of the numbers in the sequence up to the max number specified in the URL.

For instance, if the value for max is 50, the expected output should be:

```
ul id="fibonacci">
                       1
 1
                      • 2
 2

    3

 3
                      • 5
 5
                      • 8
 8

 13

 13
 21
                      21
 34

    34
```

## 3. Echo

Modify the echo. j sp page that displays a repeated word N number of times with decreasing font until it is no longer visible.

The format for the url will be: http://localhost:8080/mvc-views-part1-exercises/echo.jsp?word=Hello!&count=20.

The word and number of times to display are available via the \${ param.word } and \${ param.count } variables.

Create an unordered list that contains a list of items with value of the **word** parameter repeated the number of times specified by the **count** parameter. Also, the font size of the first list item should be equal to **count**, and the font size of each subsequent list item should be decreased by 1.

For instance, given the parameter **word** with a value of "Hello!" and the parameter **count** with a value of 20, the expected output would be:

```
ul>
style="font-size: 20px;">Hello!
style="font-size: 19px;">Hello!
Hello!
style="font-size: 17px;">Hello!
Hello!
style="font-size: 15px;">Hello!
style="font-size: 14px;">Hello!
style="font-size: 13px;">Hello!
style="font-size: 12px;">Hello!
style="font-size: 11px;">Hello!
style="font-size: 10px;">Hello!
style="font-size: 9px;">Hello!
style="font-size: 8px;">Hello!
style="font-size: 7px;">Hello!
style="font-size: 6px;">Hello!
style="font-size: 5px;">Hello!
style="font-size: 4px;">Hello!
style="font-size: 3px;">Hello!
Hello!
Hello!
```

Hello!
Hello!