Full Stack Developer Technical Test

1. What is the final content of the output array in the sample code below?

**const length = 10;**

**let output = [];**

**for (var counter = 0; counter < length; counter++); {**

**output.push(counter + 1);**

**}**

1. FizzBuzz

You have been provided with a web page FizzBuzz.html which allows a user to enter a number. The page will then display a count up from 1 to the given number following the rules of “FizzBuzz” (more details below).

Edit the ‘fizzBuzz’ function so that it returns a string containing a count from 1 to the ‘maxNumber’ parameter, with the following exceptions:

* If the number is divisible by 3, output “Fizz” instead of the number.
* If the number is divisible by 5, output “Buzz” instead of the number.
* If the number is divisible by both 3 and 5, output “FizzBuzz” instead of the number.

# Generic Linked List

**In C#, write a simple implementation of a Linked List structure.**

A Linked List is a structure where each node is connected to the next and the nodes are chained together, but a node is only aware of its next node and no others in the list. The following are **requirements**:

* The Linked List must be able to hold any type, whether value or reference type.
* It must be possible to add continually to the end of the Linked List.
* The Linked List cannot use any other inbuilt .NET collection types (arrays, List<T>, Dictionary<T>).
* The Linked List should implement IEnumerable<T>, where T is the same type as the node.
* .NET does have a built-in LinkedList but the challenge here is not to use a linked list, rather to create your own and demonstrate an understanding of logical problem solving and coding prowess.

To additionally please the client, consider implementing the following **extra features**:

* The Linked List should also implement IList<T>.
* It should be possible to remove a single node from the Linked List without breaking the Linked List.