**Data Science Interview Coding Questions**

1. DEFANGING AN IP ADDRESS, BY AMAZON

Given a valid IPv4 address, return a defanged version of that IP address. A defanged IP address replaces every period “.” with a “[.]”.

Example:

**Input:** address = "1.1.1.1"

**Output:** "1[.]1[.]1[.]1"

<https://leetcode.com/problems/defanging-an-ip-address/>

2. Fizz Buzz, BY MICROSOFT, BLOOMBERG

Given an integer n, return a string array named “answer” (1-indexed) where:

* answer[i] == "FizzBuzz" if i is divisible by 3 and 5.
* answer[i] == "Fizz" if i is divisible by 3.
* answer[i] == "Buzz" if i is divisible by 5.
* answer[i] == i if none of the above conditions are true.

Example:

**Input:** n = 3

**Output:** ["1","2","Fizz"]

<https://leetcode.com/problems/fizz-buzz/>

3. Identity all words that are palindromes in the following sentence “To be or not to be a data scientist, this is not a question. Ask your mom, lol.”

If the same word appears multiple times, return the word once (condition 1)

Palindromes: A string that reads the same from both the directions.

4. Given a string, find the first non-repeating character in it and return its index. If it doesn’t exist, return -1.