# Take home coding exercise: Fizz Buzz

## Background

Please develop a web application in C# or NodeJS that accepts an array of values. The application should do the following for each value in the array:

1. If the value is a multiple of 3 then output the word “Fizz”
2. If the value is a multiple of 5 then output the word “Buzz”
3. If the value is divisible by both 3 and 5 then output the word “FizzBuzz”
4. At the end of the run the program should display each division that was performed.

The table below shows a list of inputs and their corresponding expected outputs.

|  |  |
| --- | --- |
| Input | Result |
| 1 | Divided 1 by 3 |
| Divided 1 by 5 |
| 3 | Fizz |
| 5 | Buzz |
| <empty> | Invalid Item |
| 15 | FizzBuzz |
| A | Invalid item |
| 23 | Divided 23 by 3 |
| Divided 23 by 5 |

Assignment

Feel free to be as creative as you like. You could host this in a cloud environment of your choice, local containerized environment, or simply provide a local script to start your application. You can use any tools or libraries that you feel help you meet the requirements. Additionally, you may use any of the language features available within the language version of your choice. However, we at least expect your solution to demonstrate the following:

* Single Responsibility
* Separation Of Concerns
* Test Automation (Unit and/or Integration)

If you have any questions regarding the requirements you can either ask for clarification or make assumptions. Please briefly include any assumptions you make with your solution.

Submission

The preferred way is to submit your example via www.github.com. Name your repository "FizzBuzz" and send the url to your point of contact with "FizzBuzz" on the subject line. Optionally, you can zip up your solution and send it to your recruiter.

Enjoy!