

Netcapital Front-End Engineering Assessment

Instructions

These questions are meant to assess your abilities as a programmer and to provide a consistent scenario for discussing your approach to problem solving. You may use any packages you wish to use, but you must be able to justify their inclusion.

In evaluating your answer, we will be looking for:

- Accuracy of results
- Clean code
- Package usage where appropriate
- Comments where appropriate

You may use any resources you wish to do research, however, the code should be your own at the end of the day. You should understand every line of code for discussion purposes.

Setup

- Download and install node:
<https://nodejs.org/en/download/>
- Update npm (node package manager):

```
npm install npm@latest -g
```

- Create a public git repository to share your solutions with us. You may include the solutions to both questions in the same repository.

Question 1: Basic Programming

Problem: Write a program that prints the numbers from 1 to N. But for multiples of two print “Net” instead of the number and for the multiples of three print “capital”. For numbers which are multiples of both two and three print “Netcapital”.

Bonus: Don’t use “==”, “===”, “!=” or “!==”

Getting started: Create a file named “question1.js” with the following starter code:

```
var LIMIT =  
Number.parseInt(process.argv[2]);
```

Running the program: node question1.js
10

Expected output:
(N=10)

```
1  
Net  
capital  
Net  
5  
Netcapital  
7  
Net  
Capital  
Net
```

Question 2: Front-End Web Development

Problem:

Here is documentation for a simple, public API that returns a JSON array of beers:

<https://punkapi.com/documentation/v2>

We would like you to use HTML, CSS and Javascript to read the API and display it in an organized way. In addition, you should add in a simple sorting mechanic to the front-end. Feel free to use any frameworks you would like to achieve the task.

Tips:

- You don't have to (and probably *shouldn't*) display *all* the information about every beer. ABV and IBU are commonly referenced measurements that beer drinkers care about, so we recommend including those. What you decide to display beyond that is up to you!
- Above all else, we are looking for something that looks nice, organized, and intuitive. Don't feel like you need to do something overly-complex.
- You don't need to stand-up your own local web-server for this (but you can, if you'd like.)

README:

We will be cloning your repository and running the solutions ourselves. Be sure to include a README file in the root directory of the git repository containing any instructions we might need to run your solutions.