**Availity’s Backend Homework Assignment**

We highly recommend that you use one of the free source code management platforms (GitHub, GitLab or BitBucket) when storing your code. Once you are ready for us to look at your answers, send us the link to your code. If you have any questions about the homework, please do not hesitate to ask.

1. Tell me about your proudest professional achievement. It can be a personal or school project.

My proudest professional achievement would be my current position as Lead Consultant for a BAU project for one of our clients. I have been working with this client and their system since the beginning of this year and it has challenged me to take ownership on many aspects of Professional Services projects. From being the main technical point of contact, to development, to production release and support, I’ve had to learn many aspects of the system and work with a variety of people which has grown both my technical and non-technical skillsets greatly. One of the greatest rewards was to hear from my Project Manager after his initial face-to-face with our client recently, the pure awe that our client has for us and to see how well developed our relationship has become with them over the course of the year. It's encouraging to know that our clients fully trust us to deliver their solution needs.

1. Tell me a about a book, blog, article or GitHub repo you read or liked recently, and why you like it and why you should recommend I do the same.

I am currently reading a book called the 7 Habits of Highly Effective People. In this book the author goes over these 7 habits but breaks them up between 3 main categories: Dependence, Independence, and interdependence. Most of us start in the first stage and this book guides you on how to grow out of dependence through actions such as being proactive and being end-goal minded. From there you start to feel Independent, however, the ultimate goal is not independence, but interdependence. In dependency you have a “you can help me” mentality. In independence, you have an “I can do it” mentality, but in interdependence you gain a “we can do it” mentality. The greatest potential for growth as individuals and especially in the workplace is if we learn to thrive in this state of interdependence. I highly recommend that you read this book and take steps to becoming the most effective person you can be!

1. Describe what Availity does to a 7-year-old.

Nothing. Availity does not target children under the age of 13 for the collection of information.

1. Coding exercise: You are tasked to write a checker that validates the parentheses of a LISP code. Write a program (in Java or JavaScript) which takes in a string as an input and returns true if all the parentheses in the string are properly closed and nested.
2. Coding exercise: Availity receives enrollment files from various benefits management and enrollment solutions (I.e. HR platforms, payroll platforms).  Most of these files are typically in EDI format.  However, there are some files in CSV format.  For the files in CSV format, write a program that will read the content of the file and separate enrollees by insurance company in its own file. Additionally, sort the contents of each file by last and first name (ascending).  Lastly, if there are duplicate User Ids for the same Insurance Company, then only the record with the highest version should be included. The following data points are included in the file:

* User Id (string)
* First and Last Name (string)
* Version (integer)
* Insurance Company (string)

Again, please let us know if you have any questions. Thanks!

-Availity Team