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The artifact BinarySearchTree is a code that was developed to manage bids and perform various operation like insert, delete and search. The project involves a CSV parser to load bids into the tree and operations such as in-order, pre-order, and post-order traversals to display them. This artifact was created during my course in Data Structure and Algorithms or DSA: Analysis and Design (CS300).

I selected this artifact to showcase my skills in algorithms and data structures. It demonstrates my ability to implement and optimize tree-based data structures, efficiently handle large datasets, and apply fundamental searching and sorting techniques. The artifact was improved through debugging, performance optimizations, and feedback from my coursework.

I did not submit this artifact in Module One, but I plan to update it based on the feedback from this module. When I was creating this artifact in my previous course, I learned how data structures work, including how they are selected, how they add and sort data, and how they perform various operations. One of the challenges I faced was learning different type of data structures in a span of a week. Every week we need to know a different type of data structure. Another reason why I choose this artifact because this is the most I remember out of all the data structure I learned in the course.