

Clayton Glenn Lab 3 Design:

- Templated ArrayList<T> Class
 - In this lab, I created a Templated Class for an ArrayList. During which I created many functions I think I will need throughout this class, but can create more functions if needed.
- IsChar()
 - Function in cpp file only used to check if character is not a space.
- IsInteger()
 - Function in cpp file only used to check if string is an integer.
- isDouble()
 - Function in cpp file only used to check if string is a double.
- main()
 - Main function in program. I stepped through each specification, not for efficiency, but for readability and grade-ability.
 - At first, I broke each line of data down into comma delimited text and stored the lines in an ArrayList of data.
 - After, I broke each comma delimited line into an ArrayList of columns.
 - Then, I checked for Correct Columns, Integers, Doubles, and Catalog Numbers.
 - After the error checks, I printed the data back out backward as specified.
- Notes
 - I used comma delimited lines immediately, so my ArrayList data would be touched minorly for the rest of the program, leaving me little chance to mess the ArrayList of Data up.
 - I used ArrayList because I am familiar with it in Java. My coding time was decreased fairly, due to bypassing tedious bugs.
 - As the year progresses, my ArrayList "Reference" should be more and more unbroken and can be used in later programs.