CS 36300 / ECE 49500
Programming Assignment
The Array Class

Overview

For this programming assignment, you will design and implement a standard array class for characters, *i.e.*, char types. The goal of this programming assignment is to provide a refresher for programming abstract data types (ADTs) in C++. You therefore do not have to completely design and implement an array class in C++. Instead, the design of the array class has been provided for you. It is your job to implement the design given its source code shells by implementing the correct functionality for each method. The requirements for each method is specified in the array's header file (*i.e.*, Array.h).

NOTICE. Use of any Standard Template Library (STL) or Standard C Library string methods (such as copy, fill, etc.) to implement the Array class is **not permitted**.

Assignment Files

The files for the assignment (*i.e.*, the shells for the Array class) can downloaded from Canvas.

Development Process

For this assignment, all development must take place on the **master** branch. It is strongly recommended that you commit and push often!

Submission

All assignments must be submitted on IU Github (github.iu.edu). The name of your IU Github repository must be **cs36300-fall2018-assignment1**.

Please see the Canvas page titled "Repository Requirements" for the required configuration for your repository.

The directory structure of the repository must be as follows:

- Array.h
- Array.inl
- Array.cpp
- Array.mpc

Any additional files and directories can be added to the Github repository, but they will not be reviewed or graded.

IMPORTANT. Make sure the your filenames have the correct capitalization. Failure to do so can result in our automated system not compiling and testing your code, and you potentially receiving a 0 for the assignment.