

AMS 562 Homework 4

Due Friday 11/19, 11:59 p.m.

Task Description

You are given a class `Array` defined in `array.hpp`, implement its constructors, destructor, member functions, and free functions declared therein. You **must** implement them in a separate source file, say `array.cpp`. Also, you need to design and implement a test program to verify your implementation's correctness. Provide a README file regarding how to run the test program. You are encouraged to use Makefile or CMake for this homework assignment.

Hints

- (1) `ComplexNumber` is a great starting point. Play around with the Jupyter notebook as well as the header-/source- file version.
- (2) Be careful of dynamic memory allocation and deallocation in constructors and destructor of `Array`, respectively.