

Object Oriented Programming – Assignment 4

Spring 2022

Q1: The goal of this assignment is to create your own vector standard template library.

- You have to use a template to create two classes, one generic and one specialized for bool type using templates.
- You can find description of each function at <https://m.cplusplus.com/reference/vector/vector/>
- You have to implement the following functions for the classes:
 1. Member Functions (Constructor, Destructor & operator =)
 2. Iterator Functions (begin, end)
 3. Capacity Functions (size, max_size, empty)
 4. Access Elements (operator [], at, front, back, data)
 5. Modifiers (assign, push_back, pop_back, insert, erase, clear)
 6. Relation Operators (==, !=)
 7. Sort Function (Sort the vector in ascending order)