

ECE 71/191T – Data Structures and Algorithms

Dr. Gregory R. Kriehn, Fresno State
C++ Homework Assignment: Chapter 12

Code Due By: Midnight on Mon, Mar 06

Write-up Due By: Class on Tue, Mar 07

HOMEWORK #26 – Virtual Functions for Unordered and Ordered Lists

Write a program to create an unordered and ordered set of lists.

Specifications:

1. Copy the **arrayListType** class from Malik into an appropriate header and source file.
2. Copy the **unorderedArrayListType** class from Malik into an appropriate header and source file.
3. Copy the **orderedArrayListType** class from Malik into an appropriate header file.
4. Complete the **orderedArrayListType** class source file by writing the missing definitions of the appropriate member functions.
5. Add the member function **min()** as an abstract function to **arrayListType** to return the smallest element of the list. Also write the definitions of the function **min()** in the class **unorderedArrayListType** and **orderedArrayListType**.
6. Add the member function **max()** as an abstract function to **arrayListType** to return the largest element of the list. Also write the definitions of the function **max()** in the class **unorderedArrayListType** and **orderedArrayListType**.
7. Write a program to test the full functionality of the **unorderedArrayListType** and **orderedArrayListType** classes.