

CSE 330 LABORATORY -- Week 1, Winter 2020

Instructor: Kerstin Voigt

This is a “warm-up” and exploratory first CSE 330 lab. Work on the exercises in the order given, and see how far you get. You may ask basic C++ questions and get some help with debugging, but overall you should try to manage with minimal help. Each warms up at their own pace.

Exercise 1: Write a complete C++ program which reads in an odd number of integer values. These values are to be stored in a `vector<int>`. Among the stored values there should be no repeated values. The stored values should be contained in the vector should not be ordered.

Task: The program is to determine the “median element” in the vector; it should do so without prior sorting of the vector.

Exercise 2: You may simply add on to your program of Exercise 1 ... Write a function which will print out the values of a `vector<int>` without any iteration. That is, your function is not allowed to use any `for-`, `while-`, or `do-while` loops.

Exercise 3: Again, you can simply add on the existing program ... Write a function which will return the maximal value of a `vector<int>`. Again, the function is not allowed to use iteration (loops).

To obtain credit for this lab:

- (1) Before you leave the lab (not before 3pm), sign off on a signup sheet that will be passed around.
- (2) A portal will be opened Lab 1; electronically submit your best effort (in a single .cpp file) for this lab by 11:59pm of the day following the lab (M→ W, W → F).

Your electronic submission will not be “graded” in a traditional sense, but in order to obtain full credit for the lab, your submission should show a substantial and sincere effort on your part.