

Lab1: Structure and Array

PURPOSE:

- learn to work with arrays, structures, and I/O
- to be familiar with Visual Studio environment

Description:

In this assignment, please write a program that provides a way for you to search and display information of all students in the class. Student records including c# and scores of multiple categories are saved in the file point.dat. Your program should:

- First, read all student information from the text file and store them in an array.
- Prompt user to input a valid c#, and the program display all information of the student with the given c#.
- Then display information of all students.

Requirements

You are required to

- declare a structure **Student** to hold all information of a student, such as C# and all scores.
- declare a local variable **Roster** in main function as an array of Student structure. This array will hold information of all students.
- declare and implement the following functions:
 - a function to read from the text file
 - a function to print one student
 - a function to print information of all students
- the name of the source file must be: **ola1.cpp**.

Global variables are not allowed.

How to download assignment files:

Go to the URL: <http://www.cs.mtsu.edu/~zdong/3110/public/OLA/> and download the file OLA1.zip, which contains the following files:

- OLA1Description.pdf: this file
- OLA1Rubric.doc: a rubric used to grade this assignment
- OLA1.exe: an executable solution provided by the instructor.

How to submit your Lab:

- **softcopy:**

- Use SVN to submit your project. Make sure your repository has a folder for each project.
- Any commit of the project after the deadline is considered as cheating. If this happens, the latest version before the deadline will be graded, and you may receive up to 50 points deduction.

- **Hard copy:**

- print all source files and the rubric
- Enclose the hardcopy of the program and the rubric in a folder (about 9''x12''), and put C# (the one I give you), your name, section #, instructor name on the folder. (**Note:** You can buy folders from computer lab.)