CSCI 41 Computer Programming Methodology II

**Assignment 4**

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Define a structured memory as following:

struct record

{

char last[50];

char first[50];

char iD[20];

int score1;

int score2;

char grade;

};

Using following statements to set up an empty list:

record myList[100];

int listSize=0;

Write functions that perform following operations to the list:

1. A function that checks if a list is empty.
2. A function that insert a new item (an record) into the list.
3. A function that delete a specific item from the list.
4. A function that displays items in the list.
5. A function that retrieve the value of grade in a record that stored in the list.
6. A function that sort the list according to the last name of the each student in the list.
7. A function that search an item in the list based on student id.

Write a complete program that tests all the functions to make sure if they are working correctly.