# Structure and Dynamic Memory Management assignments

**Mandatory**

1. **Refer the question 1 solved in “Structure and function”. Extend the above program to read a number of records from the user as a single command line argument (each record is delimited by a semicolon and record fields are delimited by comma) and store in an array of structures.**

**Sample input and output are given below.**

**Input: “user1,90;user21,100, userABC,56,userX,40”;**

**Output:**

**No. of records: 4**

**Record 1:**

**Name:user1, Percentage:90**

**Record 2:**

**Name:user21, Percentage:100**

**Record 3:**

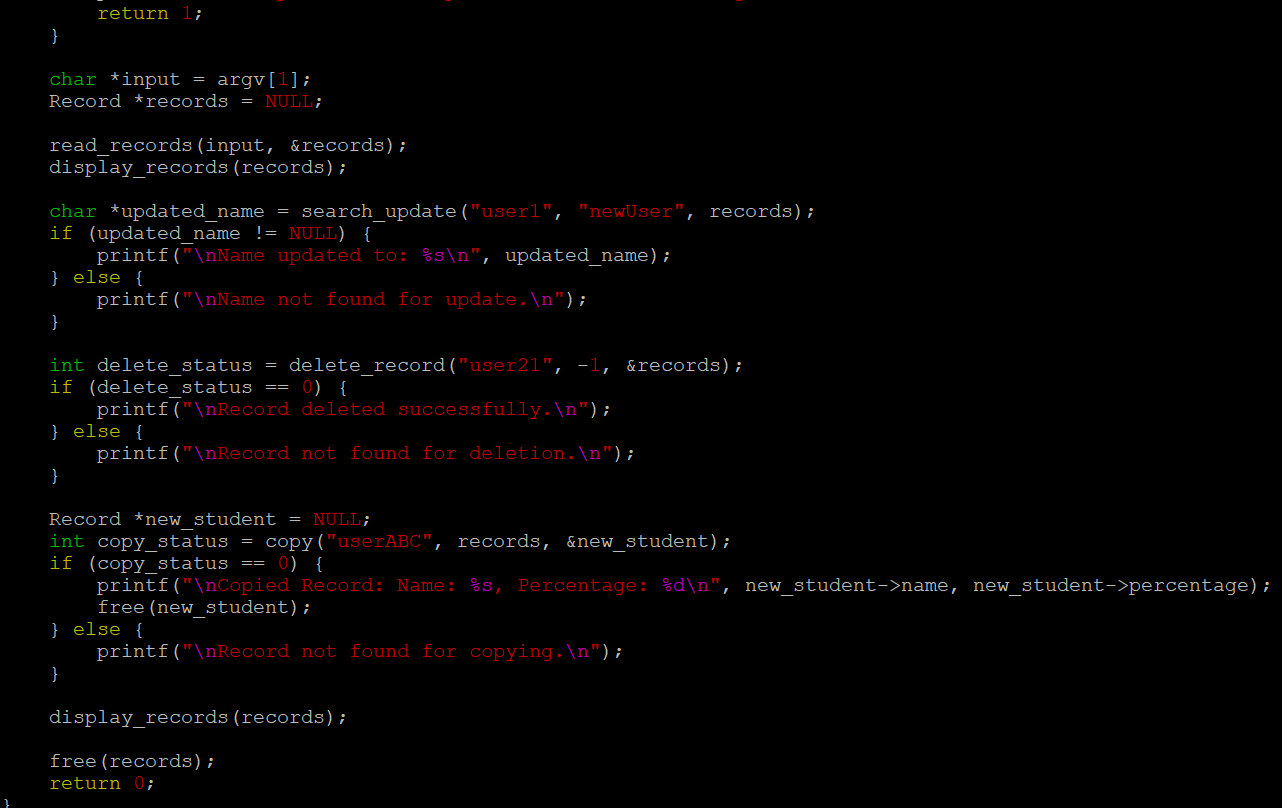
**Name:userABC, Percentage:56**

**Record 4:**

**Name:userX, Percentage:40**

**Implement all required functions and call them to get the desired output.**

**Check for memory leak.**



Attempt one of the following Questions below i.e 2a or 2b

2a. Extend Q1. Above and add 3 functions below.

//to search for a name and to replace it with a user defined name, return replaced string

char\*search\_update(char \*searchstr, char \*replacestr);

//search and delete the record with given name or percentage value, return SUCCESS on successful delete else FAILURE

int delete\_record(char \*searchstr, int percent);

//search for name and if found create a copy of the record in newstudent

and return SUCCESS, else FAILURE

int copy(char \*name, struct student \*\*newstudent);

OR

2b. Refer the code in “structure\_dynamic” and implement the functions below.

name\_ret free\_person()

name\_ret update\_person()

