Practice questions for Week 1 learning

Q-1: Consider the following structure definitions and variable declarations:

```
struct Customer {
   char lastName[ 15 ];
   char firstName[ 15 ];
   int customerNumber;

struct {
      char phoneNumber[ 11 ];
      char address[ 50 ];
      char city[ 15 ];
      char state[ 3 ];
      char zipCode[ 6 ];
   } personal;
} customerRecord, *customerPtr;
```

Write a separate expression that accesses the structure members in each of the following parts:

- a. Member lastName of structure customerRecord.
- b. Member lastName of the structure pointed to by customerPtr.
- c. Member firstName of structure customerRecord.
- d. Member firstName of the structure pointed to by customerPtr.
- e. Member customerNumber of structure customerRecord.
- f. Member customerNumber of the structure pointed to by customerPtr.
- g. Member phoneNumber of member personal of structure customerRecord.
- h. Member phoneNumber of member personal of the structure pointed to by customerPtr.
- i. Member address of member personal of structure customerRecord.
- j. Member address of member personal of the structure pointed to by customerPtr.
- k. Member city of member personal of structure customerRecord.
- 1. Member city of member personal of the structure pointed to by customerPtr.
- m. Member state of member personal of structure customerRecord.
- n. Member state of member personal of the structure pointed to by customerPtr.
- o. Member zipCode of member personal of structure customerRecord.

Q-2: Write a program that demonstrates passing an array by value. [Hint: Use a struct.] Prove that a copy was passed by modifying the array copy in the called function