CSE108 - Computer Programming Laboratory

Spring 2022, Final Lab

This lab will be graded on a scale of 100. No collaboration is permitted.

You have 80 minutes.

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In this lab, you will create a simple application in order to help a seller to register the sold item.

Each item has its auto-increment id, name and price. Also, the seller must register the contact information such as phone number or email of the customer.

You may need to fill the structures with the properties as described above.

 def struct { m_t;	typedef union { }contactInfo_t;	<pre>typedef struct { }itemWithCont_t;</pre>

All items will be saved into a non-text file by opening and writing it in binary mode.

```
#define NUMOFITEMS
#define FILENAME
                           "Lab11_data.bin"
/* Getting items from the user */
item_t *getItems(item_t *items, int size);
/* Printing items and its all properties*/
void printItem(item_t item);
/* Writing items into a binary file*/
int writeItems(char filename[],item_t *items, int size);
/* Reading an item from a binary file*/
item_t readAnItem(FILE *file);
/* Adding contact information for the items by item name*/
void contactInfoAdder (item_t *items, int size, itemWithCont_t contacts[]);
/* Printing items with contact information*/
void printItemWithContactInfo(itemWithCont_t itemsWithCont);
void flushInputBuffer();
void
flushInputBuffer()
char tmp;
scanf("%c",&tmp);
while(tmp!='\n');
```

Here is the example output with 2 number of items executed 2 iterations.

Id =>1 Name => tv Price =>1000 Id => 2Name => phonePrice =>2000 Printing.... Id: 1 Name: tv Price: 1000.00 Id: 2 Name: phone Price: 2000.00 Succesfully wrote data to file Id => 3Name => fridge Price =>5000 Id =>4Name => furniturePrice =>10000 Printing.... Id: 3 Name: fridge Price: 5000.00 Id: 4 Name: furniture Price: 10000.00 Succesfully wrote data to file Reading from file: Id: 1 Name: tv Price: 1000.00 Id: 2 Name: phone Price: 2000.00 Id: 3 Name: fridge Price: 5000.00 Id: 4 Name: furniture Price: 10000.00 Enter the phone for $tv \Rightarrow 5361234567$ Enter a mail for tv => test@gmail.com Enter the phone for phone \Rightarrow 5361234567 Enter a mail for phone => test@gmail.com Enter the phone for fridge => 5361234567 Enter a mail for fridge => test@gmail.com Enter the phone for furniture => 5361234567 Enter a mail for furniture => test@gmail.com Printing with contact information.... Id: 1 Name: tv Price: 5000.00 Phone number: 5361234567 Mail: test@gmail.com Id: 2 Name: furniture Price: 10000.00 Phone number: 5361234567 Mail: test@gmail.com Id: 3 Name: fridge Price: 5000.00 Phone number: 5361234567 Mail: test@gmail.com Id: 4 Name: furniture Price: 10000.00 Phone number: 5361234567 Mail: test@gmail.com