5/23/2017 customer.h

```
// -----customer.h-----
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// Created: 05/21/17
// Modified: 05/23/17
// -----
// Describes the ADT Customer such that a record of id #, first/last name, and
// transaction history regarding media borrows/returns and history output
// requests can be recorded.
//
// This customer class deals with every customer-related information.
// For example, id and name information of each customer are used to identify
// each customer and history vector is used to store each customer's
// transaction history. Therefore, we can know what items each customer
// borrowed or returned.
// -----
// Functionality includes:
//
           - create a Customer
//
     - copy a Customer
     - destruct a Customer
//
     retrieve id/first/last
//

    display Customer info/history

//
     - add a new Transaction to the Customer transaction historu
//
     - evaluat whether two Customers are equivalent
//
#pragma once
#include <string>
#include <vector>
#include "transaction.h"
using namespace std;
class Customer {
     public:
           // ------Customer-----
           // Customer: creates a unique Customer.
           // preconditions: 0 <= id < 10,000, strings non-empty
           // postconditions: specified Customer created.
           // -----
           Customer(int, string, string);
           // -----Customer-----
           // Customer: creates a copy of the Customer.
           // preconditions: none.
           // postconditions: a copy of the other Customer is created.
           // -----
           Customer(const Customer&);
           // -----Customer-----
           // ~Customer: destructs the Customer and frees any assoc. memory.
           // preconditions: none.
           // postconditions: any assoc. memory is freed, object inaccessible.
           // -----
           ~Customer();
           // -----getID-----
           // getID: obtains unique ID.
           // preconditions: none.
           // postconditions: unique ID returned.
           // -----
           int getID() const;
```

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// -----getFirst-----
// getFirst: obtains the first name.
// preconditions: none.
// postconditions: first name returned.
// -----
string getFirst() const;
// -----getLast-----
// getFirst: obtains the last name.
// preconditions: none.
// postconditions: last name returned.
// -----
string getLast() const;
// -----display-----
// display: outputs unique ID + f/lname
// preconditions: none.
// postconditions: identity output to console.
// -----
void display() const;
// -----displayHistory-----
// displayHistory: outputs all Transaction history.
// preconditions: none.
// postconditions: all available Transaction history is output.
// -----
void displayHistory() const {
     // for all transactions in vector
           // transaction.display();
}
// -----addTransaction------
// addTransaction: add a Transaction to history as most recent.
// preconditions: none.
// postconditions: history vector includes Transaction as latest.
bool addTransaction(Transaction) {
     // history.push back(Transaction);
}
// operator==: checks whether two customers are exactly same by using
//
          each customer's id number, because every customer gets
//
          a unique id number.
// preconditions: none.
// postconditions: true if identical, false otherwise.
// -----
bool operator==(const Customer&) const;
// -----operator!=-----
// operator!=: checks whether two customers are not the same by using
          each customer's id number, because every customer gets
//
//
          a unique id number.
// preconditions: none.
// postconditions: true if different, false otherwise.
// -----
bool operator!=(const Customer&) const;
```

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