5/23/2017 transaction.h

```
// ------transaction.h-----
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// Modified: 05/23/17
// -----
// Describes the ADT Transaction such that any given transaction is processed
// for any given customer can be encapsulated to be stored in a collection for
// records (history). Only the transaction type and associated Media item are
// recorded, the customer is tracked by virtue of the Transaction being in
// that customer's history.
//
// Holds what type of transaction [i.e. Borrow or Return] each customer did
// and what kind of media item is related with that transaction.
// -----
// Functionality includes:
           - create a new Transaction
//
     - copy an exist Transaction
//
     - destruct a Transaction
//
//
     - retrieve the transaction type
     - retrieve a ptr to the assoc. Media item
//
      - display Transaction details
//
#pragma once
#include "media.h"
class Transaction {
      public:
            // -----Transaction------
            // Transaction: creates a Transaction record.
            // preconditions: string is non-empty.
            // postconditions: Transaction created with specified trans type and
            // ptr to assoc. Media item. // -----
            Transaction(string, Media*);
            // -----Transaction-----
            // Transaction: creates a copy of the Transaction.
            // preconditions: none.
            // postconditions: a copy of the Transaction is created.
            Transaction(const Transaction&);
            // -----Transaction-----
            // ~Transaction: destructs the Transaction and frees any assoc. memory.
            // preconditions: none.
            // postconditions: any assoc. memory is freed, object inaccessible.
            // -----
            ~Transaction() {
                  // not responsible for deleting Media link
            }
            // -----getType-----
            // getType: obtains the trans type.
            // preconditions: none.
            // postconditions: trans type returned.
            // -----
            char getType() const;
            // -----getItem-----
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```
// getItem: obtains ptr to linked Media item.
             // preconditions: none.
             // postconditions: ptr to Media item returned, NULL if N/A.
             Media* getItem() const;
             // -----display-----
             // display: output the Transaction details to console.
             // preconditions: none.
             // postconditions: Transaction details, including trans type and Media
             // information are output to console.
             void display() const {
                    // output trans type
                    // item->display();
             }
       private:
             char type; // transaction type (borrow, return or history)
             Media* item; // ptr to assoc. Media item
};
```