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1 // / Joi/7/bank/CheckingAccount.java
2 /**
3 /**
4 /**
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6 /**
7 /**
8 * A CheckingAccount is a BankAccount with one new feature:
9 * the ability to cash a check by calling the honorCheck method.
10 * Each honored check costs the customer a checkFee.
11 * @see BankAccount
12 */
13 * @version 7
14 */
15
16 public class CheckingAccount extends BankAccount
17 {
18     /**
19      * Constructs a CheckingAccount with the given
20      * initial balance and issuing Bank.
21      * Counts as this account's first transaction.
22      *
23      * @param initialBalance the opening balance for this account
24      * @param issuingBank the bank that issued this account.
25      *
26      * @exception InsufficientFundsException when appropriate.
27 */
28
29     public CheckingAccount( int initialBalance, Bank issuingBank
30     throws InsufficientFundsException
31     {
32         super( initialBalance, issuingBank );
33
34     }
35     /**
36      * Honor a check:
37      * Charge the account the appropriate fee
38      * and withdraw the amount.
39      *
40      * @param amount amount (in whole dollars) to be withdrawn.
41      * @return the amount withdrawn.
42      *
43      * @exception InsufficientFundsException when appropriate.
44      */
45
46     public int honorCheck( int amount )
47     throws InsufficientFundsException
48     {
49         // careful error checking logic:
50         // first try to deduct the check fee
51         // if you succeed, try to honor check
52         // if that fails, remember to add back the check fee!
53
54         try {
55             incrementBalance( - getIssuingBank().getCheckFee() );
56

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57
58     catch ( InsufficientFundsException e ) {
59         throw new InsufficientFundsException(
60             "to cover check fee" );
61     }
62     try {
63         withdraw( amount );
64     } catch ( InsufficientFundsException e ) {
65         incrementBalance( getIssuingBank().getCheckFee() );
66         throw new InsufficientFundsException(
67             "to cover check + check fee" );
68     }
69     return amount;
70 }
71
72 /**
73 * Nothing special happens to a CheckingAccount on the
74 * first day of the month.
75 */
76
77 public void newMonth()
78 {
79     return;
80 }
81 }
```