

CSCI 2300

Bank Account Simulation

Overview

Create a program for simulating bank account transactions. In this simulation, a user can open a bank account in his or her name. The bank account can be used to deposit and withdraw money. The user can deposit money via cash, check, or direct deposit. The user can withdraw money by getting cash from a bank or an ATM, writing a check, or direct transfer to another account.

When depositing cash and direct deposit, the funds become available to be used by the account holder immediately. When depositing a check, the availability of funds depends on the date of the check plus a bank specific wait period.

Requirements

1. A user can open a bank account in his or her name
2. An account holder can deposit cash to the account
3. An account holder can deposit checks to the account
4. An account holder can set up direct deposit for transferring money to the account
5. When account holder deposits cash, the deposited funds are available for use immediately
6. When direct deposit is performed, the deposited funds are available for use immediately
7. When a check is deposited, and the date on the check is less than or equal to today's date, the deposited funds become available after a configured number of hours
8. When a check is deposited, and the date on the check is in the future, the deposited funds become available on the day after the date specified on the check.
9. When account holder withdraws money, the funds are removed from the account immediately.