We've created a `BankAccount` class that (as the name suggests) represents a bank account. For our program, the `BankAccount` class must meet several requirements:

- Each account has an account number that is set when the account is created and cannot later be changed. The number can be retrieved with the `getAccountNum()` method.
- Each account also has a balance. For this practice, all balances are whole dollar amounts (integers). The account’s balance starts at $0, and can be retrieved by the `getBalance()` method.
- Money can be added to the account by the `deposit()` method and removed by the `withdraw()` method. Both methods return `true` if the transaction is successful and `false` if not. Deposits are always successful as long as the deposit amount is greater than $0, but withdrawals only succeed if enough money is present in the account to cover the withdrawal.
- The account must remember the dollar amount of the last successful transaction, and return it from the `getLastTransAmount()` method. (Deposits are returned as positive amounts, and withdrawals as negative amounts.)

Below is the source code of the `BankAccount` class:
```java
public class BankAccount {
    public BankAccount(int acctNum) {
        this.acctNum = acctNum;
    }

    private int getAccountNum() {
        return acctNum;
    }

    private boolean deposit(int amount) {
        if (amount <= 0)
            return false;

        balance += amount;
        lastTransaction = amount;
        return true;
    }

    private boolean withdraw(int amount) {
        if (amount > 0 && balance >= amount) {
            balance -= amount;
            lastTransaction = -amount;
            return true;
        }
    }
}
```

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else
    return false;
}

private int getBalance()
{
    return balance;
}

private int getLastTransAmount()
{
    return lastTransaction;
}

@Override
public String toString()
{
    return String.format("Account %d (balance $%d)",
                        acctNum, balance);
}

private int acctNum;
private int balance;
private int lastTransaction;