#include <iostream>

using namespace std;

class BankAccount {

private:

double balance;

public:

// Static variable to store total bank funds across all accounts

static double bankFunds;

// Constructor to initialize the account with a balance

BankAccount(double initialBalance = 0) {

balance = initialBalance;

// Update total bank funds whenever a new account is created

bankFunds += balance;

}

// Deposit method: Adds money to the account balance and updates bank funds

void deposit(double amount) {

if (amount > 0) {

balance += amount;

bankFunds += amount; // Update total bank funds

} else {

cout << "Deposit amount must be positive." << endl;

}

}

// Withdraw method: Deducts money from the account balance and updates bank funds

void withdraw(double amount) {

if (amount > 0 && amount <= balance) {

balance -= amount;

bankFunds -= amount; // Update total bank funds

} else if (amount <= 0) {

cout << "Withdrawal amount must be positive." << endl;

} else {

cout << "Insufficient funds for withdrawal." << endl;

}

}

// Static method to get the total bank funds across all accounts

static double getBankFunds() {

return bankFunds;

}

};

// Initialize static variable

double BankAccount::bankFunds = 0;

int main() {

// Creating two bank accounts

BankAccount account1(1000); // Account with initial balance of 1000

BankAccount account2(500); // Account with initial balance of 500

// Deposit into account1

account1.deposit(200);

// Withdraw from account2

account2.withdraw(100);

// Check the total bank funds

cout << "Total bank funds: $" << BankAccount::getBankFunds() << endl;

return 0;

}