```
Execution Chart:
// your header files
       BankAccountMain.cpp
       BankAccountHeader.h
       BankAccount.cpp
// constant size of the vector
// declare a vector of BankAccount objects called bankAccVector of size = SIZE
// declare an ifstream called inFile that allows the program to open the text file
// declare an integer called largest which will hold the index for the largest BankAccount object,
returned by the largest method
// declare an integer called smallest which will hold the index for the smallest BankAccount
object, returned by the smallest method
// function prototypes
// method to fill array from file, details of input and output values and purpose of function
       void fillArray(std::ifstream &input, std::vector<BankAccount> &bankAccVector);
// method to find the largest account using balance as key
       int largest(std::vector<BankAccount> bankAccVector);
// method to find the smallest account using balance as key
       int smallest(std::vector<BankAccount> bankAccVector);
// method to display all elements of the accounts vector
       void printArray(std::vector<BankAccount> bankAccVector);
// finds any duplicate accounts from the given vector
       void findDuplicates(std::vector<BankAccount> &bankAccVector);
// method to display the count of objects using static count variable and vector size method
       void displayCount(int bankAccCount, int vectorCount);
// method to insert new bank account objects into vector at certain positions
       void insertNewItems(std::vector<BankAccount> &bankAccVector);
```

int main() {

```
// function calls come here:
// give the function call and a comment about the purpose,
// and input and return value if any
// open file
// fill accounts vector
// print array
// find largest
// display the largest
// find smallest
// display the smallest
// display the count
// find duplicates and display if found
// display the count
// insert new BankAccount objects into the vector
// display the count
}
```

Test Evidence:

FAVORITE BANK - CUSTOMER DETAILS

Account Name: Matilda Patel

Account Number: 1232 Account Balance: -4.00

Account Name: Fernando Diaz

Account Number: 1234 Account Balance: 250.00

Account Name: Vai vu Account Number: 1240 Account Balance: 987.56

Account Name: Howard Chen Account Number: 1236 Account Balance: 194.56

Account Name: Vai vu Account Number: 1240

Account Balance: -888987.56

Account Name: Sugata Misra

Account Number: 1238

Account Balance: 10004.80

Account Name: Fernando Diaz

Account Number: 1234
Account Balance: 8474.00

Account Name: Lily Zhaou Account Number: 1242 Account Balance: 1.98

Largest Balance:

Account Name: Sugata Misra

Account Number: 1238

Account Balance: 10004.80

Smallest Balance: Account Name: Vai vu Account Number: 1240

Account Balance: -888987.56

Using the static count, there are 8 accounts

Using vector size, there are 8 accounts

Duplicate Accounts Found: Reprinting List

FAVORITE BANK - CUSTOMER DETAILS

Account Name: Matilda Patel

Account Number: 1232 Account Balance: -4.00

Account Name: Fernando Diaz

Account Number: 1234 Account Balance: 250.00

Account Name: Vai vu Account Number: 1240 Account Balance: 987.56

Account Name: Howard Chen

Account Number: 1236 Account Balance: 194.56

Account Name: Sugata Misra

Account Number: 1238

Account Balance: 10004.80

Account Name: Lily Zhaou Account Number: 1242 Account Balance: 1.98

Using the static count, there are 8 accounts

Using vector size, there are 6 accounts

Inserted Three New Accounts: Reprinting List

FAVORITE BANK - CUSTOMER DETAILS

Account Name: Matilda Patel

Account Number: 1232 Account Balance: -4.00

Account Name: Fernando Diaz

Account Number: 1234 Account Balance: 250.00

Account Name: Amy Machado

Account Number: 1244

Account Balance: 1023.67

Account Name: Vai vu Account Number: 1240 Account Balance: 987.56

Account Name: Tak Phen Account Number: 1262

Account Balance: 6423.03

Account Name: Howard Chen

Account Number: 1236
Account Balance: 194.56

Account Name: Celia Beatle

Account Number: 1276
Account Balance: 3.56

Account Name: Sugata Misra

Account Number: 1238

Account Balance: 10004.80

Account Name: Lily Zhaou

Account Number: 1242
Account Balance: 1.98

Using the static count, there are 11 accounts

Using vector size, there are 9 accounts

Program ended with exit code: 0