

Assignment Week 8

CT103

C Programming

Submission:

REMEMBER: All files MUST be submitted via Blackboard before you leave the lab *(even if you don't get it working!)*

You must be marked present by the lab tutor, and they must see your finished program before you leave

USE CORRECT FILE NAME AS PER INSTRUCTIONS

The tutors are there to help you - don't hesitate to ask for help

Assignment

Copy this program into your development environment and finish it by writing the missing functions

```
#include "stdafx.h"
#include <stdio.h>
#include <stdlib.h>
#include "string.h"
#include "math.h"

#define SIZE 10

char custName[SIZE][30]; // array of customer names
float custBal[SIZE]; // array of customer balances

void initArrays(); // use any method you think useful to put sample data in the customer name and balance arrays
void printCustomer(int i); // prints the name and balance of customer[i]
int findHighest(); // finds the index of the customer with the highest balance
int findLowest(); // finds the index of the customer with the lowest balance
float findAverage(); // finds the average of all customer balances

void main()
{
    int i;
    float avg;

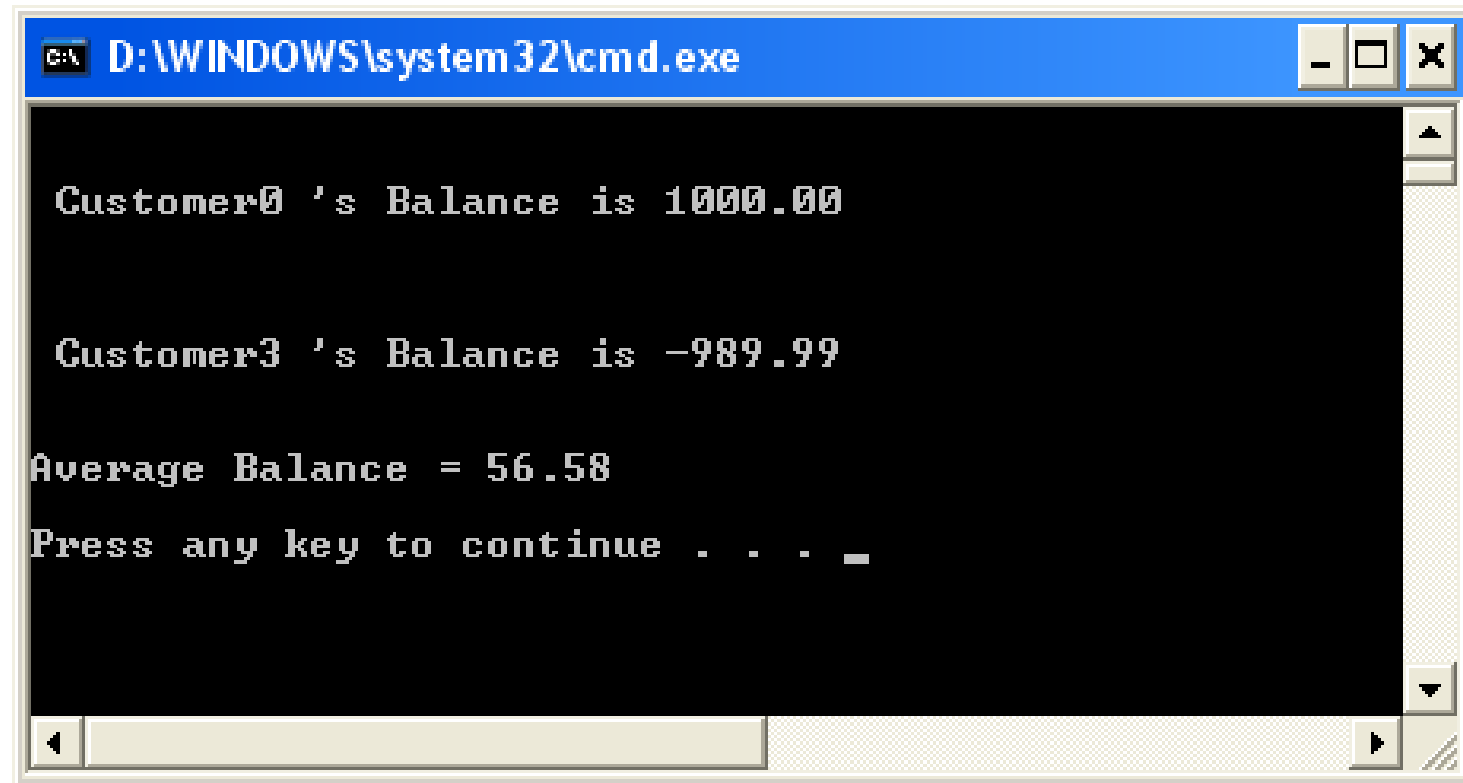
    initArrays();

    i = findHighest();
    printCustomer(i);

    i = findLowest();
    printCustomer(i);

    avg = findAverage();
    printf("\nAverage Balance = %.2f \n\n", avg);
}
```

Sample Output



A screenshot of a Windows command prompt window. The title bar is blue and contains the text "D:\WINDOWS\system32\cmd.exe" along with standard window control buttons (minimize, maximize, close). The main area is black with white text. The output shows three lines of data: "Customer0 's Balance is 1000.00", "Customer3 's Balance is -989.99", and "Average Balance = 56.58". The final line is "Press any key to continue . . . _", where the underscore indicates a key has been pressed. A horizontal scrollbar is visible at the bottom of the window.

```
D:\WINDOWS\system32\cmd.exe

Customer0 's Balance is 1000.00

Customer3 's Balance is -989.99

Average Balance = 56.58
Press any key to continue . . . _
```