

## customer

Write a C program that repeatedly reads in customer data from the user and prints the customer data on the screen until the customer name "End Customer" (i.e., first\_name last\_name) is read. Your program should include the following two functions: the function nextCustomer() reads and returns a record for a single customer to the caller via a pointer parameter *acct*, and the function printCustomer() takes a parameter *acct* and then prints the customer information. The prototypes of the two functions are given below:

```
void nextCustomer(struct account *acct);
void printCustomer(struct account acct);
```

The structure definition for **struct account** is given below:

```
struct account {
    struct
    {
        char lastName[10];
        char firstName[10];
    } names;
    int accountNum;
    double balance;
};
```

A sample program template is given below to test the functions:

```
#include <stdio.h>
#include <string.h>
struct account {
    struct
    {
        char lastName[10];
        char firstName[10];
    } names;
    int accountNum;
    double balance;
};
void nextCustomer(struct account *acct);
void printCustomer(struct account acct);
int main()
{
    struct account record;
    int flag = 0;

    do {
        nextCustomer(&record);
        if ((strcmp(record.names.firstName, "End") == 0) &&
            (strcmp(record.names.lastName, "Customer") == 0))
            flag = 1;
        if (flag != 1)
            printCustomer(record);
    } while (1);
}
```

```

    } while (flag != 1);
}
void nextCustomer(struct account *acct)
{
    /* Write your code here */
}
void printCustomer(struct account acct)
{
    /* Write your code here */
}

```

Some sample input and output sessions are given below:

(1) Test Case 1:

Enter names (firstName lastName):

SC Hui

Enter account number:

123

Enter balance:

6789.89

Customer record:

SC Hui 123 6789.89

Enter names (firstName lastName):

End Customer

(2) Test Case 2:

Enter names (firstName lastName):

SC Hui

Enter account number:

123

Enter balance:

6789.89

Customer record:

SC Hui 123 6789.89

Enter names (firstName lastName):

FY Tan

Enter account number:

13

Enter balance:

69.89

Customer record:

FY Tan 13 69.89

Enter names (firstName lastName):

End Customer

(3) Test Case 3:

Enter names (firstName lastName):

End Customer