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// MailList.cpp : Defines the entry point for the console application.  
//
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```
#include "stdafx.h"  
#include <iomanip>  
#include <string>  
#include <iostream>  
#include <istream>  
#include <fstream>  
#include <cctype>
```

```
using namespace std;
```

```
string fileName = "MailList.txt";  
string name;  
string address;  
string city;  
string state;  
string zip;
```

```
int pos = 0;  
int nameWidth = 25;  
int addressWidth = 20;  
int cityWidth = 20;  
int stateWidth = 4;  
int zipWidth = 5;
```

```
char getActionCode()  
{  
    cout << endl << endl;  
    cout << "Enter A  to Add a record ... " << endl;  
    cout << "      L  to List records ... " << endl;  
    cout << "      M  Mail label list ... " << endl;  
    cout << "      Q  to Quit program: ";  
  
    string actionCode;  
    getline(cin, actionCode);  
    return toupper(actionCode[0]);  
}
```

```
void getRecordInput()  
{  
    cout << endl << endl;  
    cout << "Enter name: ";  
    getline(cin, name);  
  
    cout << "Enter addr: ";  
    getline(cin, address);  
  
    cout << "Input city: ";  
    getline(cin, city);  
  
    cout << "State code: ";  
    getline(cin, state);  
}
```

```

        state[0] = toupper(state[0]);
        state[1] = toupper(state[1]);

        cout << "    Zip code: ";
        getline(cin, zip);
        cout << endl << endl;

        ofstream fileList;

        fileList.open(fileName, ios::app);

        fileList << setprecision(2) << left << setw(25) << name
            << setw(20) << address
            << setw(20) << city
            << setw(2) << state << "    "
            << setw(5) << zip << endl;

        fileList.close();
    }

void listRecords()
{
    ifstream fileList;
    fileList.open(fileName, ios::out);

    string fileValue = "";
    if (fileList.is_open())
    {
        cout << endl << endl << "Records in mailing list:  " << endl
        << endl;

        while (std::getline(fileList, fileValue))
        {
            pos = 0;
            cout << fileValue.substr(pos, nameWidth);
            pos += nameWidth;
            cout << fileValue.substr(pos, addressWidth);
            pos += addressWidth;
            cout << fileValue.substr(pos, cityWidth);
            pos += cityWidth;
            cout << fileValue.substr(pos, stateWidth);
            pos += stateWidth;
            cout << fileValue.substr(pos, zipWidth) << endl;
        }
        fileList.close();
    }
}

void mailingLabels()
{
    ifstream fileList;
    fileList.open(fileName, ios::out);

    string fileValue = "";

```

```

cout << endl << endl;

while (std::getline(fileList, fileValue))
{
    pos = 0;
    cout << fileValue.substr(pos,nameWidth) << endl;
    pos += nameWidth;
    cout << fileValue.substr(pos, addressWidth) << endl;
    pos += addressWidth;
    cout << fileValue.substr(pos, cityWidth) << " ";
    pos += cityWidth;
    cout << fileValue.substr(pos, stateWidth);
    pos += stateWidth;
    cout << fileValue.substr(pos, zipWidth) << endl << endl;
}
cout << endl;
fileList.close();
}

int main()
{
    char actionCode;

    actionCode = getActionCode();

    while (actionCode != 'Q')
    {
        switch (actionCode)
        {
            case 'A':
                getRecordInput();
                break;
            case 'L':
                listRecords();
                break;
            case 'M':
                mailingLabels();
                break;
            case 'Q':
                break;
            default:
                cout << endl << "Invalid Selection." << endl << endl;
                break;
        }
        actionCode = getActionCode();
    }

    cout << endl;
    system("pause");
    return 0;
}

```