

Shan Cao Praticce 2

Compile the given code

Use the following code to download the repo:

git clone [git@github.khoury.northeastern.edu:caoshan278251191/cs3520-Fall-2022.git](https://github.com:caoshan278251191/cs3520-Fall-2022.git)

```
shancao@shans-iMac ~ % git clone git@github.khoury.northeastern.edu:caoshan278251191/cs3520-Fall-2022.git
Cloning into 'cs3520-Fall-2022'...
remote: Enumerating objects: 56, done.
remote: Counting objects: 100% (56/56), done.
remote: Compressing objects: 100% (42/42), done.
remote: Total 56 (delta 17), reused 46 (delta 9), pack-reused 0
Receiving objects: 100% (56/56), 1.17 MiB | 15.60 MiB/s, done.
Resolving deltas: 100% (17/17), done.
shancao@shans-iMac ~ % cd cs3520-Fall-2022
shancao@shans-iMac cs3520-Fall-2022 % s
zsh: command not found: s
shancao@shans-iMac cs3520-Fall-2022 % ls
README.md      hw1            prac_2
shancao@shans-iMac cs3520-Fall-2022 % cd prac_2/
shancao@shans-iMac prac_2 % ls
Makefile      practise2.cpp
shancao@shans-iMac prac_2 % make
g++ -c -o practise2.o practise2.cpp -I../include -g -O0 -std=c++11
g++ -o practise2 practise2.o -I../include -g -O0 -std=c++11 -lnurses
shancao@shans-iMac prac_2 %
```

Declare three new variables for address/state/zipcode

```
string address;
cout << "Address:\t";
cin.ignore();
getline(cin, address);

string city;
cout << "City:    \t";
cin >> city;

string state_name;
cout << "state:    \t";
cin.ignore(); /* Flush the cin */
getline(cin, state_name, '\n');
/* get only the first two digits for the State name string */
state_name = state_name.substr(0, 2);

string zip_code;
cout << "zip_code \t";
cin >> zip_code;
```

read values for address/state/zipcode including 2 digits for state

```
string address;
cout << "Address:\t";
cin.ignore();
getline(cin, address);

string city;
cout << "City:    \t";
cin >> city;

string state_name;
cout << "state:    \t";
cin.ignore(); /* Flush the cin */
getline(cin, state_name, '\n');
/* get only the first two digits for the State name string */
state_name = state_name.substr(0, 2);
```

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correctly print values for address/state/zipcode in requested format without error

```
shancao@shans-iMac prac_2 % ./practise2
Guest Book

First name:      Shan
Middle initial:  C
Last name:       CAO
Address:         21 Bixby lane
City:            Westford
state:           MA
zip_code         01886
Country:         USA
-----

Display what has been typed in

ENTRY
First Name:      Shan
Middle Name:     C.
Last Name:       CAO
Address:         21 Bixby lane
City:            Westford
State:           MA
Country          USA
-----
```

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create new string, printing it with

```
cout << "-----\n\n";
cout << "Display what it looks like if we put all the variables into the "
      << "same variables\n";
string longstr = first_name + " " + middle_initial + " " + last_name + '\n' +
                address + " \n" + city + " " + state_name + " " + zip_code +
                " \n" + country + "\n";

longstr = longstr + '\n';
cout << "\nENTRY\n"; // display the entry
cout << longstr;
```

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replacing \n with period and printing it

```
replace(longstr.begin(), longstr.end(), '\n', '.');
```

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Print ASCII sum for the final string.

```
int sum_of_ascII(string ss) {  
    int sum = 0;  
    for (int i = 0; i < ss.size(); i++) {  
        sum = sum + ss[i];  
    }  
    return sum;  
}
```

```
cout << "-----\n\n";  
cout << "The Sum of the ASC value of all the digits \n";  
int total = sum_of_ascII(longstr);  
cout << "the number is: \t";  
cout << total;
```

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Full output from the server

```
-bash-4.2$ make
g++ -c -o practise2.o practise2.cpp -I../include -g -O0 -std=c++11
g++ -o practise2 practise2.o -I../include -g -O0 -std=c++11 -lnurses
-bash-4.2$ ./practise2
Guest Book

First name:      Shan
Middle initial:  C
Last name:       Cao
Address:         21 bixny ln
City:            Westford
state:           MA
zip_code        01886
Country:         USA
-----

Display what has been typed in

ENTRY
First Name:      Shan
Middle Name:     C.
Last Name:       Cao
Address:         21 bixny ln
City:            Westford
State:           MA
Country         USA
-----

Display what it looks like if we put all the variables into the same variables

ENTRY
Shan C Cao
21 bixny ln
Westford MA 01886
USA
-----

Display what it looks like if we replace all the slash n with the dot
Shan C Cao.21 bixny ln .Westford MA 01886 .USA..
-----

The Sum of the ASC value of all the digits

the number is:  3577
```