

C++ for Engineers and Scientists | (4th Edition)

☰

Chapter 9, Problem 7PP

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(Data processing) Write a C++ program that accepts a name as first name followed by last name, and then displays the name as last name, first name. For example, if the user enters Gary Bronson, the output should be Bronson, Gary.

>

Step-by-step solution

Step 1 of 3 ^

Display last name and then first name

Program Plan:

- Include header files and declare required namespaces.
- Initialize the main () function.
- Declare strings to be used.
- Prompt the user to enter a name.
- Read the input.
- Compute the result and display the output.

Comment

Step 2 of 3 ^

Program:

```
//*****  
// This program prompts the user to enter the first and  
// last name then displays the last name before the first  
//name.  
//*****  
// include header files and namespace used  
#include <iostream>  
#include <string>  
using namespace std;  
  
// main function  
int main()  
{  
  
    Declare two variable of string type, str is used to store the user input string while str1  
    is used to do the computation.  
  
    //variable declaration  
    string str,str1;  
  
    The variable numChars is used to store the length of the user input string.  
  
    //variable declaration  
    int numChars;  
  
    The variable pos is used to store the position of the blankspace.  
  
    //declare and initialise the variable  
    int pos=0;  
  
    The display statement prompt the user to enter the name.  
  
    // display statment  
    cout<< "Please enter the name "<<endl;  
  
    The getline () function is used to read the user input value.  
  
    //use getline() to input the value  
    getline(cin, str);  
  
    The length of the string str is calculated using the length () function and is stored in  
    numChars.  
  
    //calculate string length  
    numChars= int(str.length());  
  
    if (str.find(' '))  
    {  
  
        The position of the blankspace is stored in the pos variable with the help of string class  
        function to find the position of the given value.  
  
        //find position of the blankspace  
        pos = str.find(' ');  
    }  
  
    The string value after the blankspace is stored in another string str1 and the unwanted  
    string element after the blank space are removed from the str string usinh the erase ()  
    function of string class.  
  
    //copy substring and erase the unwanted space  
    str1=str.substr(pos+1,50);  
    str.erase(pos);  
  
    The output is displayed.  
  
    //display output  
    cout <<str1 <<" " <<str;  
  
    }  
}
```

Comment

Step 3 of 3 ^

Sample output:

```
Please enter string  
gary bronson  
bronson gary
```

Comment

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