

Exercise 7.1

```
//To test the program, 6 cases:  
// Without, with 1 space or with many spaces; first names of 1 or 2 words.  
//Assume just one space between the words of a 2-word name.  
//Assume a first name has one word or two words.
```

```
#include <iostream>  
#include <string>  
using namespace std;  
int main()  
{  
    unsigned i=0;  
    bool name_in = false; //True if characters in first name is being  
printed.  
    bool hyphen_added = false; //True if hyphen ever added.  
    char surname[50], name[50];  
    cout << "Input your surname: ";  
    cin.getline(surname, 50);  
    cout << "Input your first name: ";  
    cin.getline(name, 50);  
    for (i=0; i<strlen(surname); i++)  
    {  
        if (surname[i]!=' ')  
            cout.put(surname[i]);  
    }  
    cout << ' ';  
    for (i=0; i<strlen(name); i++)  
    {  
        if (name[i]!=' ')  
        {  
            cout.put(name[i]);  
            name_in=true;  
        }  
        else if (name_in && !hyphen_added) //See a space following word  
of first name, hyphen never added  
        {  
            if (name[i+1]!=' ' && name[i+1]!='\0') //Just one space  
between words of first name  
            {  
                cout.put('-');  
                hyphen_added=true; //At most one hyphen can be added.  
            }  
        }  
    }  
    cout<<endl;  
    return 0;  
}
```