

# 1.12 C++ example: Married-couple names

zyDE 1.12.1: Married-couple names.

Pat Smith and Kelly Jones are engaged. What are possible last name combinations for a married couple (listing Pat first)?

1. Run the program below to see three possible married-couple names.
2. Extend the program to print the two hyphenated last name options (Smith-Jones, Jones-Smith). Run the program again.

Load default

```

5  int main() {
6      string firstName1;
7      string lastName1;
8      string firstName2;
9      string lastName2;
10
11     cout << "What is the first person's first name?" << endl;
12     cin >> firstName1;
13     cout << "What is the first person's last name?" << endl;
14     cin >> lastName1;
15
16     cout << "What is the second person's first name?" << endl;
17     cin >> firstName2;
18     cout << "What is the second person's last name?" << endl;
19     cin >> lastName2;
20
21     cout << "Here are some common married-couple names:" << endl;
22     cout << firstName1 << " " << lastName1 << " and " << firstName2 << " " << lastName2 << endl;
23     cout << firstName1 << " and " << firstName2 << " " << lastName1 << endl;
24     cout << firstName1 << " and " << firstName2 << " " << lastName2 << endl;
25     cout << firstName1 << " and " << firstName2 << " " << lastName1 << "-" << lastName2 << endl;
26     cout << firstName1 << " and " << firstName2 << " " << lastName2 << "-" << lastName1 << endl;
27
28
29     return 0;

```

Pat  
Smith  
Kelly

Run

```

What is the first person's first name?
What is the first person's last name?
What is the second person's first name?
What is the second person's last name?
Here are some common married-couple names:
Pat Smith and Kelly Jones
Pat and Kelly Smith
Pat and Kelly Jones

```

```
Pat and Kelly Smith-Jones
Pat and Kelly Jones-Smith
```

[Feedback?](#)

## zyDE 1.12.2: Married-couple names (solution).

A solution to the above problem follows:

[Load default](#)

```

8   string firstName2;
9   string lastName2;
10
11  cout << "What is the first person's first name?" << endl;
12  cin >> firstName1;
13  cout << "What is the first person's last name?" << endl;
14  cin >> lastName1;
15
16  cout << "What is the second person's first name?" << endl;
17  cin >> firstName2;
18  cout << "What is the second person's last name?" << endl;
19  cin >> lastName2;
20
21  cout << "Here are some common married-couple names:" << endl;
22  cout << firstName1 << " " << lastName1 << " and " << firstName2 <<
23  " " << lastName2 << endl;
24  cout << firstName1 << " and " << firstName2 << " " << lastName1 << endl;
25  cout << firstName1 << " and " << firstName2 << " " << lastName2 << endl;
26  cout << firstName1 << " and " << firstName2 << " " << lastName1 <<
27  "-" << lastName2 << endl;
28  cout << firstName1 << " and " << firstName2 << " " << lastName2 <<
29  "-" << lastName1 << endl;
30
31  return 0;
32 }
```

```
Pat
Smith
Kelly
```

**Run**

```
What is the first person's first name?
What is the first person's last name?
What is the second person's first name?
What is the second person's last name?
Here are some common married-couple names:
Pat Smith and Kelly Jones
Pat and Kelly Smith
Pat and Kelly Jones
Pat and Kelly Smith-Jones
Pat and Kelly Jones-Smith
```

[Feedback?](#)