



Overloading Ostream Operator ☆

33/44 challenges solved

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Problem

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The task is to overload the << operator for Person class in such a way that for p being an instance of class Person the result of:

```
std::cout << p << " " << <some_string_value> << std::endl;
```

produces the following output:

```
first_name=<first_name>,last_name=<last_name> <some_string_value>
```

where:

- <first_name> is the value of p's first_name_
- <last_name> is the value of p's last_name_
- <some_string_value> is an arbitrary std::string value

Input Format

The input is read by the provided locked code template. In the only line of the input there are 3 space-separated strings first_name, last_name, event. The values of first_name and last_name will be used to create an object p of type Person. The value of event will be used by the provided code to produce the output.

Constraints

- Each word in the input contains only English letters and is no longer than 15 characters

Output Format

The output should be produced by the provided locked code template. This code will use the implementation of Person public methods and the overloaded << operator to produce the output. Specifically, the output will be produced by the following code:

```
cout << p << " " << event << endl;
```

Sample Input 0

```
john doe registered
```

Sample Output 0

```
first_name=john,last_name=doe registered
```



C++14



```
1  #include <iostream>
2
3  using namespace std;
4
5  class Person {
6  public:
7      Person(const string& first_name, const string& last_name) : first_name_(first_name),
last_name_(last_name) {}
8      const string& get_first_name() const {
9          return first_name_;
10     }
11     const string& get_last_name() const {
12         return last_name_;
13     }
14 private:
15     string first_name_;
16     string last_name_;
17 };
18 #include <type_traits>
19 template <typename Type>
20 auto operator<<(std::ostream &out, const Type &person)
21     -> std::enable_if_t<std::is_same<Person, Type>::value, std::ostream &> {
22     return out << "first_name=" << person.get_first_name()
23         << ",last_name=" << person.get_last_name();
24 }
25
26 int main() {
27     string first_name, last_name, event;
28     cin >> first_name >> last_name >> event;
29     auto p = Person(first_name, last_name);
30     cout << p << " " << event << endl;
31     return 0;
32 }
```

Line: 18 Col: 23

☒ Upload Code as File ☐ Test against custom input

Run Code

Submit Code

You have earned 20.00 points!

33/44 challenges solved.

75%



Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge



Test case 0 ✓

Test case 1 ✓

Test case 2 ✓

Test case 3 ✓

Test case 4 ✓

Test case 5 ✓

Test case 6 ✓

Compiler Message

Success

Input (stdin) [Download](#)
john doe registered{-truncated-}
[Download to view the full testcase](#)

Expected Output [Download](#)
first_name=john,last_name=doe registered{-truncated-}
[Download to view the full testcase](#)

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