Function Arguments Order of Evaluation

- [Reference](#)
- Version 1

```cpp
    #include <iostream>
    #include <stack>
    #include <string>

 5. using namespace std;

    void code(string operand1, string operand2)
    {
      cout << "operand1 = " << operand1 << " ";
10.   cout << "operand2 = " << operand2 << endl;
    }

    string popOperand(stack<string>& stk)
    {
15.   string ret = stk.top();
      stk.pop();
      return ret;
    }

20. int main()
    {
      stack<string> myStack;

      myStack.push("lhs");
25.   myStack.push("rhs");

      code(popOperand(myStack), popOperand(myStack));
      //operand1 = lhs operand2 = rhs

30.   return 0;
    }
```

- The commands to compile, link, and run this code are shown below.

```
    mmotl@csunix ~/public_html/4301/examples> make orderOfEval
    g++ -g -Wall -std=c++11 -c orderOfEval.cpp -I/usr/local/4301/include -I.
    g++ -o orderOfEval orderOfEval.o -L/usr/local/4301/lib -lm
    mmotl@csunix ~/public_html/4301/examples> ./orderOfEval
 5. operand1 = lhs operand2 = rhs
    mmotl@csunix ~/public_html/4301/examples>
```

- Version 2

```cpp
    #include <iostream>
    #include <stack>
    #include <string>

 5. using namespace std;

    void code(string operand1, string operand2)
    {
      cout << "operand1 = " << operand1 << " ";
10.   cout << "operand2 = " << operand2 << endl;
    }

    string popOperand(stack<string>& stk)
```

```cpp
      {
15.     string ret = stk.top();
        stk.pop();
        return ret;
      }

20. int main()
      {
        stack<string> myStack;

        myStack.push("lhs");
25.     myStack.push("rhs");

        string s1 = popOperand(myStack);
        string s2 = popOperand(myStack);
        code(s1, s2);
30.     //operand1 = rhs operand2 = lhs

        return 0;
      }
```

- The commands to compile, link, and run this code are shown below.

```
    mmotl@csunix ~/public_html/4301/examples> make orderOfEval2
    g++ -g -Wall -std=c++11 -c orderOfEval2.cpp -I/usr/local/4301/include -I.
    g++ -o orderOfEval2 orderOfEval2.o -L/usr/local/4301/lib -lm
    mmotl@csunix ~/public_html/4301/examples> ./orderOfEval2
 5. operand1 = rhs operand2 = lhs
    mmotl@csunix ~/public_html/4301/examples>
```

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