

## Bug Detection Exercise: 2

**ECE 60872/CS 590 –Fault-Tolerant Computer System Design**  
**School of Electrical and Computer Engineering**  
**Purdue University**  
**Fall 2019**

Find the errors in the two C++ programs.

```
1 #include <iostream>
2 using namespace std;
3 class Room
4 {
5
6     int length;
7     int width;
8 public:
9     Room(int l, int w=0):
10         width(w),
11         length(l)
12     {
13     }
14 };
15 void main()
16 {
17     Room objRoom1;
18     Room objRoom2(12, 8);
19 }
```

```
1 #include <iostream>
2 using namespace std;
3 class Room
4 {
5
6     int length;
7     int width;
8 public:
9     Room()
10    {
11        length=0;
12        width=0;
13    }
14    Room(int value=8)
15    {
16        length = width =8;
17    }
18    void display()
19    {
20        cout<<length<< ' ' <<width;
21    }
22 };
23 void main()
24 {
25     Room objRoom1;
26     objRoom1.display(); }
```