

Lab 8

Deadline: June 19th at 3:00 p.m.

1. Explain why the following program terminates without showing “I love C++.”

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     throw;
6     cout << "I love C++" << endl;
7     return 0;
8 }
```

2. Does the following program show “I love C++”? Why?

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     try{
6         throw 3.0;
7     } catch (float) {
8         cout << "exception caught" << endl;
9     }
10    cout << "I love C++" << endl;
11    return 0;
12 }
```

3. Based on your Lab 7, add exception handling codes for **new** failure. Show that the codes work when memory is insufficient.

Hand-in Rules

Your GitLab account shall have a public repository lab8, which includes the following things:

1. Your *.cpp* and *.h* files.
2. A *Makefile*.
3. A *README* file showing the answers to questions 1 and 2, how to compile your program for question 3 and the running script.