```
1
     #include "triangle.h"
 2
 3
     using namespace std;
 4
     Triangle::Triangle(double base, double height, const Color& color): mBase(base),
 5
     mHeight(height), mColor(color) {
 6
7
     }
8
9
     Triangle::Triangle(const Color& color): Triangle() {
10
         setColor(color);
11
12
13
     Triangle::Triangle(Color::Code code): Triangle(Color(code)) {
14
15
16
17
     double Triangle::getHeight() const {
18
         return mHeight;
19
20
21
     double Triangle::getBase() const {
22
         return mBase;
23
24
25
     double Triangle::getSurface() const {
26
         return mBase * mHeight / 2.;
27
28
29
     Color Triangle::getColor() const {
30
         return mColor;
31
32
33
     Triangle& Triangle::setHeight(double height) {
34
         mHeight = height;
35
         return *this;
36
     }
37
38
     Triangle& Triangle::setBase(double base) {
39
         mBase = base;
40
         return *this;
41
     }
42
43
     Triangle& Triangle::setColor(const Color& color) {
44
         mColor = color;
45
         return *this;
46
     }
47
     Triangle& Triangle::setColor(Color::Code color) {
48
49
         setColor(Color(color));
50
         return *this;
51
     }
52
53
     ostream& Triangle::display(ostream& stream) const {
         return stream << "Triangle Base: " << mBase</pre>
54
                        << ", Height: "
55
                                             << mHeight
56
                        << ", Color: "
                                              << mColor;
57
     }
58
59
     ostream& operator<<(ostream& stream, const Triangle& triangle) {
60
         return triangle.display(stream);
61
62
```