

```
1  #include "color.h"
2
3  using namespace std;
4
5  Color::Color(Code code): mCode(code) {
6
7  }
8
9  Color::Code Color::getColorCode() const {
10     return mCode;
11 }
12
13 Color& Color::setColor(Code code) {
14     mCode = code;
15     return *this;
16 }
17
18 string Color::getName() const {
19     return toString(mCode);
20 }
21
22 string toString(const Color::Code& code) {
23     switch (code)
24     {
25         case Color::Code::WHITE:
26             return "white";
27         case Color::Code::BLUE:
28             return "blue";
29         case Color::Code::GREEN:
30             return "green";
31         case Color::Code::RED:
32             return "red";
33         case Color::Code::BLACK:
34             return "black";
35
36         default:
37             return "unknown";
38     }
39     return "unknown";
40 }
41
42 ostream& Color::display(ostream& stream) const {
43     return stream << getName();
44 }
45
46 ostream& operator<<(ostream& stream, const Color& color) {
47     return color.display(stream);
48 }
49
```