```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
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 */
#include <bitset>
#include <iostream>
using namespace std;
int main()
    /* enumeration type for the bits
     * - each bit represents a color
    enum Color { red, yellow, green, blue, white, black, //...,
                  numColors };
    // create bitset for all bits/colors
    bitset<numColors> usedColors;
    // set bits for two colors
    usedColors. set (red);
    usedColors. set (blue);
    // print some bitset data
    cout << "bitfield of used colors: " << usedColors</pre>
         << endl;
    cout << "number of used colors: " << usedColors.count()</pre>
         << end1:
    cout << "bitfield of unused colors: " << ~usedColors
          << end1:
    // if any color is used
    if (usedColors.any()) {
        // loop over all colors
        for (int c = 0; c < numColors; ++c) {
             // if the actual color is used
             if (usedColors[(Color)c]) {
                 //...
        }
    }
}
```