```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
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 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
using namespace std::placeholders;
int main()
     list(int) coll;
     INSERT ELEMENTS (col1, 2, 6);
     INSERT ELEMENTS (col1, 4, 9);
     PRINT ELEMENTS (coll);
     // print all elements with value 5 replaced with 55
     replace_copy(coll.cbegin(), coll.cend(), // source ostream_iterator<int>(cout, ""), // destination
                                                                  // destination
                                                                  // old value
                                                                   // new value
                     55);
     cout << endl;
     // print all elements with a value less than 5 replaced with 42
     replace_copy_if(coll.cbegin(), coll.cend(), // source ostream_iterator<int>(cout, ""), // destination
                                                                  // replacement criterion
                         bind(less\langle int \rangle(), _1, 5),
                                                                   // new value
                         42);
     cout << end1:
     // print each element while each odd element is replaced with 0
     replace_copy_if(coll.cbegin(), coll.cend(), // source

ostream_iterator<int>(cout, ""), // destination
                                                                  // replacement criterion
                         [](int elem){
                              return elem%2==1;
                         0);
                                                                   // new value
     cout << endl;
}
```