```
/* 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;
int main()
    list(int) coll;
    INSERT_ELEMENTS (col1, 2, 7);
    INSERT_ELEMENTS (col1, 4, 9);
    PRINT_ELEMENTS(coll, "coll: ");
    // replace all elements with value 6 with 42
    replace (coll.begin(), coll.end(),
                                                   // range
                                                   // old value
               6,
               42):
                                                   // new value
    PRINT ELEMENTS (col1, "col1: ");
    // replace all elements with value less than 5 with 0
    replace_if (coll.begin(), coll.end(), // range
                   [](int elem){
                                                   // criterion for replacement
                       return elem<5;
                   },
0);
                                                   // new value
    PRINT_ELEMENTS(coll, "coll: ");
}
```