```
/* 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 <iostream>
#include <vector>
#include <algorithm>
#include <functional>
#include "print.hpp"
#include "compose21.hpp"
using namespace std;
int main()
    vector(int) coll;
    // insert elements from 1 to 9
    for (int i=1; i <=9; ++i) {
         coll. push back(i);
    PRINT ELEMENTS (col1);
    // remove all elements that are greater than four and less than seven
    // - retain new end
    vector<int>::iterator pos;
    pos = remove if (coll. begin(), coll. end(),
                        compose_f_gx_hx(logical_and bool),
                                           bind2nd(greater(int)(), 4),
                                           bind2nd(less\langle int \rangle (), 7)));
    // remove ``removed'' elements in coll
    coll. erase(pos, coll. end());
    PRINT ELEMENTS (coll);
}
```