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/* 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 "alghostuff.hpp"
using namespace std;

int main()
{
    list<int> coll1;

    INSERT_ELEMENTS(coll1,1,6);
    INSERT_ELEMENTS(coll1,1,9);
    PRINT_ELEMENTS(coll1);

    // print elements without those having the value 3
    remove_copy(coll1.begin(), coll1.end(), // source
                ostream_iterator<int>(cout," "), // destination
                3); // removed value
    cout << endl;

    // print elements without those having a value greater than 4
    remove_copy_if(coll1.begin(), coll1.end(), // source
                   ostream_iterator<int>(cout," "), // destination
                   bind2nd(greater<int>(),4)); // removed elements
    cout << endl;

    // copy all elements greater than 3 into a multiset
    multiset<int> coll2;
    remove_copy_if(coll1.begin(), coll1.end(), // source
                   inserter(coll2,coll2.end()), // destination
                   bind2nd(less<int>(),4)); // elements not copied
    PRINT_ELEMENTS(coll2);
}

```