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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()
{
    vector<int> coll;

    INSERT_ELEMENTS(coll, 2, 6);
    INSERT_ELEMENTS(coll, 4, 9);
    INSERT_ELEMENTS(coll, 1, 7);
    PRINT_ELEMENTS(coll, "coll:          ");

    // remove all elements with value 5
    vector<int>::iterator pos;
    pos = remove(coll.begin(), coll.end(),    // range
                5);                          // value to remove

    PRINT_ELEMENTS(coll, "size not changed:  ");

    // erase the ``removed'' elements in the container
    coll.erase(pos, coll.end());
    PRINT_ELEMENTS(coll, "size changed:      ");

    // remove all elements less than 4
    coll.erase(remove_if(coll.begin(), coll.end(),    // range
                        bind2nd(less<int>(), 4)),    // remove criterion
                coll.end());
    PRINT_ELEMENTS(coll, "<4 removed:        ");
}

```