```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
 * (C) Copyright Nicolai M. Josuttis 1999.
 * Permission to copy, use, modify, sell and distribute this software
* is granted provided this copyright notice appears in all copies.
* This software is provided "as is" without express or implied
 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <iostream>
#include <set>
#include <algorithm>
#include <iterator>
using namespace std;
int main()
    set <int> coll;
    // insert elements from 1 to 9
    for (int i=1; i \le 9; ++i) {
        coll.insert(i);
    // print all elements of the collection
    copy (coll.begin(), coll.end(),
          ostream_iterator<int>(cout, ""));
    cout << endl;
    /* Remove all elements with value 3
     * - algorithm remove() does not work
     * - instead member function erase() works
    int num = coll.erase(3);
    // print number of removed elements
    cout << "number of removed elements: " << num << endl;</pre>
    // print all elements of the modified collection
    copy (coll.begin(), coll.end(),
          ostream_iterator<int>(cout, " "));
    cout << endl;
```