```cpp
/* 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 <set>

int main()
{
    // type of the collection
    typedef std::set<int> IntSet;

    IntSet coll;          // set container for int values

    /* insert elements from 1 to 6 in arbitrary order
     * - value 1 gets inserted twice
     */
    coll.insert(3);
    coll.insert(1);
    coll.insert(5);
    coll.insert(4);
    coll.insert(1);
    coll.insert(6);
    coll.insert(2);

    /* print all elements
     * - iterate over all elements
     */
    IntSet::const_iterator pos;
    for (pos = coll.begin(); pos != coll.end(); ++pos) {
        std::cout << *pos << ' ';
    }
    std::cout << std::endl;
}
```