

```

/* 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 "alghostuff.hpp"
using namespace std;

int main()
{
    vector<int> coll1;
    list<int> coll2;

    INSERT_ELEMENTS(coll1, 1, 9);

    /* copy elements of coll1 into coll2
     * - use back inserter to insert instead of overwrite
     */
    copy (coll1.begin(), coll1.end(),           // source range
          back_inserter(coll2));                // destination range

    /* print elements of coll2
     * - copy elements to cout using an ostream iterator
     */
    copy (coll2.begin(), coll2.end(),           // source range
          ostream_iterator<int>(cout, " "));    // destination range
    cout << endl;

    /* copy elements of coll1 into coll2 in reverse order
     * - now overwriting
     */
    copy (coll1.rbegin(), coll1.rend(),         // source range
          coll2.begin());                       // destination range

    // print elements of coll2 again
    copy (coll2.begin(), coll2.end(),           // source range
          ostream_iterator<int>(cout, " "));    // destination range
    cout << endl;
}

```