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/* The following code example is taken from the book
 * "The C++ Standard Library – A Tutorial and Reference, 2nd Edition"
 * by Nicolai M. Josuttis, Addison-Wesley, 2012
 *
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 */
#include "algotuff.hpp"
using namespace std;

int main()
{
    // source data
    int source[] = { 1, 4, 4, 6, 1, 2, 2, 3, 1, 6, 6, 6, 5, 7,
                    5, 4, 4 };
    list<int> coll;

    // initialize coll with elements from source
    copy (begin(source), end(source),           // source
          back_inserter(coll));                 // destination
    PRINT_ELEMENTS(coll);

    // remove consecutive duplicates
    auto pos = unique (coll.begin(), coll.end());

    // print elements not removed
    // - use new logical end
    copy (coll.begin(), pos,                     // source
          ostream_iterator<int>(cout, " "));    // destination
    cout << "\n\n";

    // reinitialize coll with elements from source
    copy (begin(source), end(source),           // source
          coll.begin());                       // destination
    PRINT_ELEMENTS(coll);

    // remove elements if there was a previous greater element
    coll.erase (unique (coll.begin(), coll.end(),
                       greater<int>()),
                coll.end());
    PRINT_ELEMENTS(coll);
}

```