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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 "algostuff.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 };
    int sourceNum = sizeof(source)/sizeof(source[0]);
    list <int> coll;
    // initialize coll with elements from source
    copy (source, source+sourceNum,
           back inserter(coll);
                                                  // destination
    PRINT ELEMENTS (col1);
    // remove consecutive duplicates
    list<int>::iterator pos;
    pos = unique (coll.begin(), coll.end());
    /* print elements not removed
     * - use new logical end
                                                  // source
// destination
    copy (coll. begin(), pos,
    ostream_iterator<int>(cout, " "));
cout << "\n\n";</pre>
    // reinitialize coll with elements from source
    copy (source, source+sourceNum,
                                                 // source
                                                  // destination
          coll.begin());
    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);
```