```
/* 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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 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
bool differenceOne (int elem1, int elem2)
    return elem1 + 1 == elem2 \mid elem1 - 1 == elem2;
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]);
    // initialize coll with elements from source
    list<int> coll;
    copy(source, source+sourceNum,
                                           // source
                                           // destination
         back inserter(coll));
    PRINT ELEMENTS (coll);
    // print elements with consecutive duplicates removed
    unique_copy(coll.begin(), coll.end(), // source
                 ostream iterator (int) (cout, "")); // destination
    cout << endl:
    // print elements without consecutive entries that differ by one
    differenceOne);
                                                     // duplicates criterion
    cout << endl;
}
```