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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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 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
void printCollection (const list<int>& 1)
    PRINT ELEMENTS (1);
bool lessForCollection (const list<int>& 11, const list<int>& 12)
    return lexicographical_compare
                  (11. cbegin(), 11. cend(), // first range 12. cbegin(), 12. cend()); // second range
}
int main()
    list < int > c1, c2, c3, c4;
    // fill all collections with the same starting values
    INSERT ELEMENTS (c1, 1, 5);
    c4 = c3 = c2 = c1;
    // and now some differences
    c1. push back (7);
    c3. push back(2);
    c3. push_back(0);
    c4. push back (2);
    // create collection of collections
    vector (list (int) cc;
    cc. insert ( cc. begin(), { c1, c2, c3, c4, c3, c1, c4, c2 } );
    // print all collections
    for each (cc. cbegin(), cc. cend(),
                printCollection):
    cout << endl:
    // sort collection lexicographically
    // print all collections again
    for_each (cc.cbegin(), cc.cend(),
               printCollection);
}
```