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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 <iostream>
#include <list>
#include <deque>
#include <algorithm>
#include "countptr.hpp"
using namespace std;
void printCountedPtr (CountedPtr<int> elem)
    cout << *elem << ';
int main()
    // array of integers (to share in different containers)
    static int values[] = \{3, 5, 9, 1, 6, 4\};
    // two different collections
    typedef CountedPtr<int> IntPtr;
    deque<IntPtr> coll1;
    list(IntPtr> coll2;
    /* insert shared objects into the collections
     * - same order in coll1
     * - reverse order in coll2
     */
    for (int i=0; i < size of (values) / size of (values[0]); ++i) {
         IntPtr ptr(new int(values[i]));
         coll1. push back(ptr);
        coll2. push front (ptr);
    }
    // print contents of both collections
    for each (coll1.begin(), coll1.end(),
               printCountedPtr);
    cout << endl:
    for_each (coll2.begin(), coll2.end(),
               printCountedPtr);
    cout << endl << endl;
    /* modify values at different places
     * - square third value in coll1
     * - negate first value in coll1
     * - set first value in coll2 to 0
    *coll1[2] *= *coll1[2];
```