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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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 * warranty, and with no claim as to its suitability for any purpose.
 */
#include <iostream>
#include <set>
#include <deque>
#include <algorithm>
#include "print.hpp"
using namespace std;
int main()
     set<int, greater<int> > coll1;
    deque(int) coll2;
    // insert elements from 1 to 9
     for (int i=1; i \le 9; ++i) {
         coll1. insert(i);
    PRINT ELEMENTS (coll1, "initialized: ");
    // transform all elements into coll2 by multiplying 10
     transform (coll1. begin(), coll1. end(),
                                                          // source
                                                          // destination
                 back inserter (coll2),
                 bind2nd(multiplies<int>(), 10));
                                                          // operation
    PRINT ELEMENTS (coll2, "transformed: ");
    // replace value equal to 70 with 42
    replace if (coll2.begin(), coll2.end(),
                                                          // range
                                                          // replace criterion
                   bind2nd(equal_to\langle int \rangle(), 70),
                   42);
                                                          // new value
    PRINT ELEMENTS (coll2, "replaced:
                                              ");
    // remove all elements with values less than 50
    coll2. erase (remove if (coll2. begin(), coll2. end(), // range
                               bind2nd(less<int>(),50)), // remove criterion
                   col12. end()):
    PRINT ELEMENTS (coll2, "removed:
                                              "):
```