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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 "algostuff.hpp"
using namespace std;
int main()
    deque(int) coll1;
                               // initialize with 6 elements
    vector(int) coll6(6);
    vector (int) coll30(30); // initialize with 30 elements
    INSERT ELEMENTS (coll1, 3, 7);
    INSERT_ELEMENTS (coll1, 2, 6);
    INSERT_ELEMENTS (coll1, 1, 5);
    PRINT ELEMENTS (coll1);
    // copy elements of coll1 sorted into coll6
    vector(int)::iterator pos6;
    pos6 = partial sort copy (coll1.begin(), coll1.end(),
                                coll6. begin(), coll6. end());
    // print all copied elements
    copy (coll6. begin(), pos6,
          ostream_iterator<int>(cout, ""));
    cout << endl;
    // copy elements of coll1 sorted into coll30
    vector(int)::iterator pos30;
    pos30 = partial_sort_copy (coll1.begin(), coll1.end(),
                                 col130.begin(), col130.end(),
                                 greater(int)());
    // print all copied elements
    copy (col130. begin(), pos30,
          ostream_iterator<int>(cout, ""));
    cout << endl;
}
```