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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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#include "algostuff.hpp"
using namespace std;
int main()
    deque(int) coll1;
    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)::const iterator pos6;
    pos6 = partial_sort_copy (coll1.cbegin(), coll1.cend(),
                               coll6. begin(), coll6. end());
    // print all copied elements
    copy (coll6. cbegin(), pos6,
          ostream iterator(int)(cout, ""));
    cout << endl;
    // copy elements of coll1 sorted into coll30
    vector<int>::const_iterator pos30;
    pos30 = partial_sort_copy (coll1.cbegin(), coll1.cend(),
                                col130.begin(), col130.end(),
                                greater(int)());
    // print all copied elements
    copy (col130. cbegin(), pos30,
          ostream iterator(int)(cout, ""));
    cout << endl;
}
```