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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;
int main()
    deque(int) coll;
    INSERT ELEMENTS (col1, 3, 7);
    INSERT ELEMENTS (col1, 2, 6);
    INSERT ELEMENTS (col1, 1, 5);
    PRINT ELEMENTS (coll);
    // extract the four lowest elements
    nth element (coll.begin(),
                                     // beginning of range
                  coll.begin()+3,
                                      // element that should be sorted correctly
                                      // end of range
                   coll. end());
    // print them
cout << "the four lowest elements are:</pre>
    cout << endl;
    // extract the four highest elements
    nth_element (coll.begin(), // beginning of range coll.end()-4, // element that should be sorted correctly
                                      // end of range
                   coll. end()):
    // print them
    cout << "the four highest elements are: ";</pre>
    copy (coll.cend()-4, coll.cend(),
          ostream_iterator<int>(cout, "
    cout << end1;
    // extract the four highest elements (second version)
    nth element (coll. begin(),
                                     // beginning of range
                   coll.begin()+3,
                                      // element that should be sorted correctly
                  // print them
    cout << "the four highest elements are: ";</pre>
    copy (coll.cbegin(), coll.cbegin()+4,
          ostream_iterator<int>(cout, ""));
    cout << endl:
```