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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) 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:
   cout << endl;
   // extract the four highest elements
   // print them
    cout << "the four highest elements are: ";</pre>
   copy (coll. end()-4, coll. end(),
         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>
   cout << endl:
```