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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 <algorithm>
#include <vector>
#include <iostream>
using namespace std;
int main()
    // create vector with elements from 1 to 6 in arbitrary order
    vector(int) coll;
    coll. push back (2);
    coll.push_back(5);
    coll.push_back(4);
    coll.push_back(1);
    coll. push back (6);
    coll. push back(3);
    // find and print minimum and maximum elements
    vector<int>::const iterator minpos = min element(coll.begin(),
                                                          coll. end());
    cout << "min: " << *minpos << endl;</pre>
    vector(int)::const iterator maxpos = max element(coll.begin(),
                                                          coll. end());
    cout << "max: " << *maxpos << endl;</pre>
    // sort all elements
    sort (coll.begin(), coll.end());
    // find the first element with value 3
    vector(int)::iterator pos3;
    pos3 = find (coll.begin(), coll.end(),
                                                // range
                                                 // value
    // reverse the order of the found element with value 3 and all following
elements
    reverse (pos3, coll.end()):
    // print all elements
    vector<int>::const_iterator pos;
    for (pos=coll.begin(); pos!=coll.end(); ++pos) {
    cout << *pos << ' ';</pre>
    cout << endl;
```