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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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 */
#include "alghostuff.hpp"
using namespace std;

int main()
{
    deque<int> coll;

    INSERT_ELEMENTS(coll, 3, 7);
    INSERT_ELEMENTS(coll, 2, 6);
    INSERT_ELEMENTS(coll, 1, 5);
    PRINT_ELEMENTS(coll);

    // sort until the first five elements are sorted
    partial_sort (coll.begin(),           // beginning of the range
                  coll.begin()+5,         // end of sorted range
                  coll.end());            // end of full range
    PRINT_ELEMENTS(coll);

    // sort inversely until the first five elements are sorted
    partial_sort (coll.begin(),           // beginning of the range
                  coll.begin()+5,         // end of sorted range
                  coll.end(),             // end of full range
                  greater<int>());        // sorting criterion
    PRINT_ELEMENTS(coll);

    // sort all elements
    partial_sort (coll.begin(),           // beginning of the range
                  coll.end(),             // end of sorted range
                  coll.end());            // end of full range
    PRINT_ELEMENTS(coll);
}

```