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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 "algotuff.hpp"
using namespace std;

int main()
{
    deque<int> coll;

    INSERT_ELEMENTS(coll,1,9);
    PRINT_ELEMENTS(coll);

    // find four consecutive elements with value 3
    deque<int>::iterator pos;
    pos = search_n (coll.begin(), coll.end(),      // range
                   4,                               // count
                   3);                               // value

    // print result
    if (pos != coll.end()) {
        cout << "four consecutive elements with value 3 "
              << "start with " << distance(coll.begin(),pos) +1
              << ". element" << endl;
    }
    else {
        cout << "no four consecutive elements with value 3 found"
              << endl;
    }

    // find four consecutive elements with value greater than 3
    pos = search_n (coll.begin(), coll.end(),      // range
                   4,                               // count
                   3,                               // value
                   greater<int>());                // criterion

    // print result
    if (pos != coll.end()) {
        cout << "four consecutive elements with value > 3 "
              << "start with " << distance(coll.begin(),pos) +1
              << ". element" << endl;
    }
    else {
        cout << "no four consecutive elements with value > 3 found"
              << endl;
    }
}

```