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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;
    list<int> subcoll;
    INSERT ELEMENTS (col1, 1, 7);
    INSERT ELEMENTS (col1, 1, 7);
    INSERT ELEMENTS (subcol1, 3, 6);
    PRINT_ELEMENTS (coll, "coll:
    PRINT ELEMENTS (subcoll, "subcoll: ");
    // search first occurrence of subcoll in coll
    deque<int>::iterator pos;
    pos = search (coll.begin(), coll.end(),
                                                           // range
                    subcoll.begin(), subcoll.end()); // subrange
    // loop while subcoll found as subrange of coll
    while (pos != coll.end())
         // print position of first element
        \langle \langle \text{ end } 1 \rangle
         // search next occurrence of subcoll
         pos = search (pos, coll.end(),
                                                               // range
                         subcoll.begin(), subcoll.end()); // subrange
    }
}
```