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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 "algotuff.hpp"
using namespace std;

int main()
{
    vector<int> coll;
    list<int> searchcoll;

    INSERT_ELEMENTS(coll, 1, 11);
    INSERT_ELEMENTS(searchcoll, 3, 5);

    PRINT_ELEMENTS(coll, "coll: ");
    PRINT_ELEMENTS(searchcoll, "searchcoll: ");

    // search first occurrence of an element of searchcoll in coll
    vector<int>::iterator pos;
    pos = find_first_of (coll.begin(), coll.end(), // range
                        searchcoll.begin(), // beginning of search set
                        searchcoll.end()); // end of search set
    cout << "first element of searchcoll in coll is element "
         << distance(coll.begin(), pos) + 1
         << endl;

    // search last occurrence of an element of searchcoll in coll
    vector<int>::reverse_iterator rpos;
    rpos = find_first_of (coll.rbegin(), coll.rend(), // range
                        searchcoll.begin(), // beginning of search set
                        searchcoll.end()); // end of search set
    cout << "last element of searchcoll in coll is element "
         << distance(coll.begin(), rpos.base())
         << endl;
}

```