```cpp
/* 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 "algostuff.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;
}
```