```
/* 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
 * (C) Copyright Nicolai M. Josuttis 2012.
 * Permission to copy, use, modify, sell and distribute this software * is granted provided this copyright notice appears in all copies. * This software is provided "as is" without express or implied
 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
using namespace std::placeholders;
int main()
{
    vector(int) coll;
    vector<int>::iterator pos;
     INSERT_ELEMENTS(col1, 1, 9);
    PRINT_ELEMENTS (coll, "coll: ");
    // find first element greater than 3
                       (coll.begin(), coll.end(),  // range
bind(greater<int>(),_1,3)); // criterion
    pos = find if (coll.begin(), coll.end(),
    // print its position
cout << "the "</pre>
           << distance(coll.begin(), pos) + 1</pre>
           << ". element is the first greater than 3" << endl;</pre>
    // find first element divisible by 3
    pos = find_if (coll.begin(), coll.end(),
                       [](int elem){
                            return elem%3==0;
                       }):
    // print its position cout << "the " \!\!\!\!
           << distance(coll.begin(), pos) + 1</pre>
           << ". element is the first divisible by 3" << endl;
    // find first element not <5
    pos = find if not (coll.begin(), coll.end(),
                            bind(less < int > (), _1, 5));
    cout << "first value >=5: " << *pos << endl;
```