```
/* 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;
// return whether the second object has double the value of the first
bool doubled (int elem1, int elem2)
   return elem1 * 2 == elem2;
int main()
   vector(int) coll;
   coll. push back(1);
   coll. push back(3);
   coll. push back(2);
   coll. push back (4);
   coll. push back (5);
   coll.push_back(5);
   coll. push back (0);
   PRINT ELEMENTS (coll, "coll: ");
   // search first two elements with equal value
   vector<int>::iterator pos;
   pos = adjacent find (coll.begin(), coll.end());
   if (pos != coll.end()) {
       cout << "first two elements with equal value have position"
            << distance(coll.begin(), pos) + 1</pre>
            \langle \langle \text{ end } 1 \rangle
   }
   // search first two elements for which the second has double the value of the
   pos = adjacent find (coll. begin(), coll. end(),
                                                     // range
                        doubled):
                                                     // criterion
   if (pos != coll.end()) {
       << distance(coll.begin(), pos) + 1</pre>
            << end1;
   }
}
```