```
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
 * (C) Copyright Nicolai M. Josuttis 1999.
 * 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;
int main()
     vector(int) coll1;
    list(int) coll2;
     INSERT ELEMENTS (coll1, 1, 9);
    PRINT ELEMENTS (coll1, "coll1:
    // square each element
     transform (coll1.begin(), coll1.end(),
                                                           // first source range
                                                           // second source range
                  coll1.begin(),
                  coll1.begin(),
                                                           // destination range
    multiplies<int>());
PRINT_ELEMENTS(coll1, "squared: ");
                                                           // operation
     /* add each element traversed forward with each element traversed backward
      * and insert result into coll2
     transform (coll1.begin(), coll1.end(),
                                                           // first source range
                                                           // second source range
                  coll1.rbegin(),
                                                           // destination range
// operation
                  back_inserter(coll2),
                  plus(int)());
    PRINT ELEMENTS (coll2, "coll2: ");
    // print differences of two corresponding elements
     cout << "diff: ";</pre>
    transform (coll1. begin(), coll1. end(),
                                                           // first source range
                  coll2.begin(), // second source range ostream_iterator<int>(cout, ""), // destination range minus<int>()); // operation
    cout << endl;
```