```
/* 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 "algostuff.hpp"
using namespace std;
int main()
{
    list(int) coll;
    INSERT ELEMENTS (col1, 1, 6);
    PRINT ELEMENTS (coll);
    /* process sum of all products
     * (0 + 1*1 + 2*2 + 3*3 + 4*4 + 5*5 + 6*6)
    cout << "inner product: "</pre>
          << inner product (coll.begin(), coll.end(), // first range</pre>
                                                            // second range
                              coll.begin(),
                                                            // initial value
                              (0)
          << end1:
    /* process sum of 1*6 ... 6*1
     * (0 + 1*6 + 2*5 + 3*4 + 4*3 + 5*2 + 6*1)
    cout << "inner reverse product: "</pre>
          << inner product (coll.begin(), coll.end(),</pre>
                                                            // first range
                                                            // second range
// initial value
                              coll.rbegin(),
                              (0)
          << end1:
    /* process product of all sums
     * (1 * 1+1 * 2+2 * 3+3 * 4+4 * 5+5 * 6+6)
    cout << "product of sums: "</pre>
          << inner_product (coll.begin(), coll.end(), // first range</pre>
                                                            // second range
                              coll.begin(),
                                                            // initial value
                              multiplies <int>(),
                                                         // outer operation
                              plus(int)())
                                                          // inner operation
          << end1;
}
```