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/* 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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 * warranty, and with no claim as to its suitability for any purpose.
#include "algostuff.hpp"
using namespace std;
int main()
   deque(int) coll;
   INSERT ELEMENTS (col1, 1, 6);
   PRINT ELEMENTS (coll);
   // print all differences between elements
   cout << endl;</pre>
   // print all sums with the predecessors
   adjacent_difference (coll.cbegin(), coll.cend(), // source ostream_iterator<int>(cout, ""), // destination
                                                                       // operation
                             plus(int)());
   cout << endl;
   // print all products between elements
   adjacent_difference (coll.cbegin(), coll.cend(), // source ostream_iterator<int>(cout, ""), // destination multiplies<int>()); // operation
   cout << endl;
```