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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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 */
#include <vector>
#include <iostream>
using namespace std;
int main()
   vector<int> coll;
   // insert elements from -3 to 9
   for (int i=-3; i <=9; ++i) {
       coll. push back (i);
   // print number of elements by processing the distance between beginning and
   // - NOTE: uses operator - for iterators
cout << "number/distance: " << coll.end()-coll.begin() << endl;</pre>
   // print all elements
   // - NOTE: uses operator < instead of operator !=
   vector<int>::iterator pos;
   for (pos=coll. begin(); pos<coll. end(); ++pos) {
       cout << *pos << '
   cout << endl;
   // print all elements
   // - NOTE: uses operator [] instead of operator *
   for (int i=0; i<coll.size(); ++i), {
       cout << coll.begin()[i] << '</pre>
   cout << endl;
   // print every second element
   // - NOTE: uses operator +=
   for (pos = coll.begin(); pos < coll.end()-1; pos += 2) {
       cout << *pos << '
   cout << endl;
```