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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 <vector>
#include <algorithm>
using namespace std;

int main()
{
    vector<int> coll1;    // empty collection
    vector<int> coll2;    // empty collection

    // RUNTIME ERROR:
    // - beginning is behind the end of the range
    vector<int>::iterator pos = coll1.begin();
    reverse (++pos, coll1.end());

    // insert elements from 1 to 9 into coll1
    for (int i=1; i<=9; ++i) {
        coll1.push_back (i);
    }

    // RUNTIME ERROR:
    // - overwriting nonexisting elements
    copy (coll1.cbegin(), coll1.cend(),    // source
          coll2.begin());                  // destination

    // RUNTIME ERROR:
    // - collections mistaken
    // - cbegin() and cend() refer to different collections
    copy (coll1.cbegin(), coll2.cend(),    // source
          coll1.end());                    // destination
}

```