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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 <iostream>
#include <deque>
#include <string>
#include <algorithm>
#include <iterator>
using namespace std;

int main()
{
    // create empty deque of strings
    deque<string> coll;

    // insert several elements
    coll.assign (3, string("string"));
    coll.push_back ("last string");
    coll.push_front ("first string");

    // print elements separated by newlines
    copy (coll.cbegin(), coll.cend(),
          ostream_iterator<string>(cout, "\n"));
    cout << endl;

    // remove first and last element
    coll.pop_front();
    coll.pop_back();

    // insert "another" into every element but the first
    for (unsigned i=1; i<coll.size(); ++i) {
        coll[i] = "another " + coll[i];
    }

    // change size to four elements
    coll.resize (4, "resized string");

    // print elements separated by newlines
    copy (coll.cbegin(), coll.cend(),
          ostream_iterator<string>(cout, "\n"));
}

```