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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 "alghostuff.hpp"
using namespace std;

int main()
{
    vector<int> coll1;
    deque<int> coll2;

    INSERT_ELEMENTS(coll1, 1, 9);
    INSERT_ELEMENTS(coll2, 11, 23);

    PRINT_ELEMENTS(coll1, "coll1: ");
    PRINT_ELEMENTS(coll2, "coll2: ");

    // swap elements of coll1 with corresponding elements of coll2
    deque<int>::iterator pos;
    pos = swap_ranges (coll1.begin(), coll1.end(), // first range
                      coll2.begin());             // second range

    PRINT_ELEMENTS(coll1, "\ncoll1: ");
    PRINT_ELEMENTS(coll2, "coll2: ");
    if (pos != coll2.end()) {
        cout << "first element not modified: "
              << *pos << endl;
    }

    // mirror first three with last three elements in coll2
    swap_ranges (coll2.begin(), coll2.begin()+3, // first range
                coll2.rbegin());                 // second range

    PRINT_ELEMENTS(coll2, "\ncoll2: ");
}

```