```cpp
/* The following code example is taken from the book
 * "The C++ Standard Library - A Tutorial and Reference"
 * by Nicolai M. Josuttis, Addison-Wesley, 1999
 *
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 */
#include "algostuff.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: ");
}
```