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

void print (int elem)
{
    cout << elem << ' ';
}

int main()
{
    // create list with elements from 1 to 9
    list<int> coll = { 1, 2, 3, 4, 5, 6, 7, 8, 9 };

    // print all elements in normal order
    for_each (coll.begin(), coll.end(),      // range
              print);                        // operation
    cout << endl;

    // print all elements in reverse order
    for_each (coll.rbegin(), coll.rend(),    // range
              print);                        // operations
    cout << endl;
}

```