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/* 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 <list>
#include <algorithm>
#include <functional>
#include <cstdlib>
#include "print.hpp"
#include "compose10.hpp"
using namespace std;
using namespace boost;

int main()
{
    list<int> coll;

    // insert five random numbers
    generate_n (back_inserter(coll),          // beginning of destination range
               5,                             // count
               rand);                         // new value generator
    PRINT_ELEMENTS(coll);

    // overwrite with five new random numbers
    // in the range between 0 (including) and 10 (excluding)
    generate (coll.begin(), coll.end(),      // destination range
             compose_f_g(bind2nd(modulus<int>(), 10),
                          ptr_fun(rand)));
    PRINT_ELEMENTS(coll);
}

```