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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 <iostream>
#include <vector>
#include <algorithm>
#include <functional>
#include <iterator>
#include "print.hpp"
#include "composell.hpp"
using namespace std;

int main()
{
    vector<int> coll;

    // insert elements from 1 to 9
    for (int i=1; i<=9; ++i) {
        coll.push_back(i);
    }
    PRINT_ELEMENTS(coll);

    // for each element add 10 and multiply by 5
    transform (coll.begin(), coll.end(),
               ostream_iterator<int>(cout, " "),
               compose_f_gx(bind2nd(multiplies<int>(), 5),
                           bind2nd(plus<int>(), 10)));
    cout << endl;
}

```