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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 <locale>
#include <iostream>
#include <iomanip>
#include <exception>
#include <cstdlib>
using namespace std;

int main ()
{
    try {
        // use German locale:
#ifdef _MSC_VER
        locale locG("deu_deu.1252");
#else
        locale locG("de_DE");
#endif

        // use German locale and ensure that the currency is written:
        cin.imbue(locG);
        cout.imbue(locG);
        cout << showbase;

        // read monetary value into long double (use international symbol)
        long double val;
        cout << "monetary value: ";
        cin >> get_money(val, true);

        if (cin) {
            // write monetary value (use local symbol)
            cout << put_money(val, false) << endl;
        }
        else {
            cerr << "invalid format" << endl;
        }
    }
    catch (const std::exception& e) {
        cerr << "Exception: " << e.what() << endl;
        return EXIT_FAILURE;
    }
}

```