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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 <ctime>
#include <iterator>
#include <iostream>
#include <string>
#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.ISO-8859-1");
#endif
        const time_get<char>& tgG = use_facet<time_get<char>>(locG);

        // print date order of German locale:
        typedef time_base TB;
        time_get<char>::dateorder d = tgG.date_order();
        cout << "dateorder: "
             << (d==TB::no_order || d==TB::mdy ? "mdy" :
                 d==TB::dmy ? "dmy" :
                 d==TB::ymd ? "ymd" :
                 d==TB::ydm ? "ydm" : "unknown") << endl;

        // read weekday (in German) and time (hh:mm)
        cout << "<wochentag> <hh>:<mm>: ";
        string format = "%A %H:%M";
        struct tm val;
        ios_base::iostate err = ios_base::goodbit;
        tgG.get (istreambuf_iterator<char>(cin),
                 istreambuf_iterator<char>(),
                 cin, err, &val,
                 format.c_str(), format.c_str()+format.size());
        if (err != ios_base::goodbit) {
            cerr << "invalid format" << endl;
        }
    }
    catch (const std::exception& e) {
        cerr << "Exception: " << e.what() << endl;
        return EXIT_FAILURE;
    }
}

```

