```
/* 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 <locale>
#include <iostream>
#include <cstdlib>
#include <iterator>
int main()
    // create copy of current global locale
    std::locale loc;
    // iterator to read from standard input
    typedef std::istreambuf_iterator<char> InIt;
    InIt beg = InIt(std::cin);
    InIt end = InIt();
    // stream which defines input format
    std::ios base& fmt = std::cin;
    // declare output arguments
    std::ios base::iostate err;
    float value;
    // get numeric input facet of the locale loc
    std::num get <char, InIt > const& ng
      = std::use facet < std::num get < char, InIt >> (loc);
    // read value with numeric input facet
    ng. get (beg, end, fmt, err, value);
    // print value or error message
    if (err == std::ios_base::goodbit) {
   std::cout << "value: " << value << '\n';</pre>
    else if (err == std::ios_base::eofbit) {
        std::cout << "value: " << value << " (EOF encountered) \n";
    else if (err & std::ios base::badbit) {
        std::cerr << "fatal error while reading numeric value\n";
        return EXIT_FAILURE;
    else if (err & std::ios_base::failbit) {
        std::cerr << "format error while reading numeric value\n";
        return EXIT FAILURE;
}
```