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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 <iostream>
#include <complex>
#include <cstdlib>
#include <limits>
using namespace std;

int main()
{
    complex<long double> c1, c2;

    while (cin.peek() != EOF) {

        // read first complex number
        cout << "complex number c1: ";
        cin >> c1;
        if (!cin) {
            cerr << "input error" << endl;
            return EXIT_FAILURE;
        }

        // read second complex number
        cout << "complex number c2: ";
        cin >> c2;
        if (!cin) {
            cerr << "input error" << endl;
            return EXIT_FAILURE;
        }

        if (c1 == c2) {
            cout << "c1 and c2 are equal !" << endl;
        }

        cout << "c1 raised to the c2: " << pow(c1,c2)
            << endl << endl;

        // skip rest of line
        cin.ignore(numeric_limits<int>::max(), '\n');
    }
}

```