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// File: power.cpp
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/* A program to read in a floating point number x
   and compute sqrt(x), x^2, and x^3
   and output the solutions on separate lines.
   */

#include <iostream>
#include <cmath>
using namespace std;

int main()
{
    double x,y;

    /* Read in x */
    cout << "Enter x (float): ";
    cin >> x;

    /* Compute sqrt(x) */
    y = sqrt(x);

    cout << "sqrt(x) = " << y << endl;
    cout << "x^2 = " << x*x << endl;
    cout << "x^3 = " << x*x*x << endl;

    return (0);
}
```