```cpp
// 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 = "<< pow(x,2) << endl;
  cout << "x^3 = "<< pow(x,3) << endl;

  return 0;
}
```