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/**
                  Thurlow, Taylor
      Name:
      Project:
      Due:
                  10/12/16
                         cs25602-f16
      Course:
      Description:
            This program asks the user for console input of three coefficients
            to be placed into the quadractic equation and computed. The program
            will output the constructed quadratic equation, and then both
            computed answers.
**/
#include <iostream>
#include <math.h>
using namespace std;
int main() {
      double a, b, c;
      double x1, x2;
      string input;
      cout << "T. Thurlow's Quadratic Equation" << endl << endl;</pre>
      cout << "Please enter values for a, b, and c: ";</pre>
      cin >> a >> b >> c;
      // The following three blocks of code strip trailing zeroes from the
      // printed versions of a, b, and c. This is due to the fact that the
      // output of to_string() is not modifyable. C++11 comes in handy!
```

```
string printableA = to_string(a);
printableA.erase(printableA.find_last_not_of('0') + 1, string::npos);
if(printableA.back() == '.') printableA.pop_back();
string printableB = to_string(b);
printableB.erase(printableB.find_last_not_of('0') + 1, string::npos);
if(printableB.back() == '.') printableB.pop back();
string printableC = to_string(c);
printableC.erase(printableC.find_last_not_of('0') + 1, string::npos);
if(printableC.back() == '.') printableC.pop_back();
// Legibly print the newly constructed quadratic equation
cout << printableA + " x^2 + " + printableB + " x + " + printableC + " = 0" << endl;
// Do each part (positive and negative) of the quadratic equation
// seperately, and store their answers in x1 and x2
x1 = ((-1 * b) + sqrt(pow(b, 2) - (4 * a * c))) / (2 * a);
x2 = ((-1 * b) - sgrt(pow(b, 2) - (4 * a * c))) / (2 * a);
cout << "x1 = " << x1 << endl;
cout << "x2 = " << x2 << endl;
return 0;
```

}