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// Connor Seemann
// CSCI201
// 2/13/2020
// section 2
// 2.2
// ~/CSCI201/HOMEWORK/Homework2/quadraticFormula.a
// This will find the roots of a quadratic polynomial
#include <iostream>
#include <cmath>
#include <cstdlib>
using namespace std;
void function(double, double, double);
int main() {
    double a, b, c;
    do {
        cout << "Please enter a, b, c (seperated by spaces)" << endl;</pre>
        cout << "enter all zeros seperated by zeros to exit" << endl;</pre>
        cin >> a >> b >> c;
        if (a !=0 && b != 0 && c != 0)
        {
            function(a, b, c);
        }
        else
            cout << "Check and make sure everything was entered propperly" <<</pre>
             endl << endl;</pre>
    } while ( a !=0 && b != 0 && c != 0);
    return 0;
}
void function(double a, double b, double c)
{
    double x1, x2;
    double discriminate = pow(b, 2) - 4 * a * c;
    if (discriminate < 0)</pre>
        x1 = (-b - sqrt(-discriminate)) / (2 * a);
        x2 = (-b + sqrt(-discriminate)) / (2 * a);
        if (x1 != x2)
            cout << "There are no real sulutions\n Imaginary sulutions are: "</pre>
             << x1 << "i, " << x2 << "i" << endl << endl;
        else if (x1 == x2)
```