import java.util.Scanner;

public class Lab3 {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.println("Enter the coefficients of the quadratic equation (a, b, and c):");

System.out.print("Enter a: ");

double a = input.nextDouble();

System.out.print("Enter b: ");

double b = input.nextDouble();

System.out.print("Enter c: ");

double c = input.nextDouble();

double z = b \* b - 4 \* a \* c;

if (z > 0) {

double root1 = (-b + Math.sqrt(z)) / (2 \* a);

double root2 = (-b - Math.sqrt(z)) / (2 \* a);

System.out.println("The roots are real and distinct. They are: " + root1 + " and " + root2);

}

else if (z == 0) {

double root = -b / (2 \* a);

System.out.println("The roots are real and equal. They are: " + root);

}

else {

double root3 = -b / (2 \* a);

System.out.println("The roots are complex");

}

}

}

