

Quadratic equation

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import java.util.Scanner;
public static void main(String args[]) {
    double r1, r2;
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter a, b, c value:");
    double a = sc.nextDouble();
    double b = sc.nextDouble();
    double c = sc.nextDouble();
    double D = b*b - 4*a*c;
    if (D < 0) {
        System.out.println("imaginary root 1: " + (b/2*a) + " + i * (Math.sqrt(-D)/2*a)");
        System.out.println("imaginary root 2: " + (b/2*a) + " - i * (Math.sqrt(-D)/2*a)");
    } else {
        r1 = (b + Math.sqrt(D)) / 2*a;
        r2 = (b - Math.sqrt(D)) / 2*a;
        System.out.println("real root 1: " + r1);
        System.out.println("real root 2: " + r2);
    }
}

```