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Example 1

```
import java.util.Scanner;
import static java.lang.Math.Bart;
class Quadratic{
Public static void main (String [] arg){
double a, b, c, D, s1, s2, real, imoghery;
Scanner R = new Scanner (System.in);
System.out.println (" Enter the coefficient ");
a = R.nextDouble();
b = R.nextDouble();
c = R.nextDouble();
D = (b*b) - (4*a*c);
if (D==0)
{
r1 = r2 = -b/(2*a);
System.out.println ("Roots are = "
                     + s1 + "and "+ th);
} else if (D>0)
{
r1 = (-b + Sqrt (D)) /(2*a);
r2 = (-b - Sqrt (D)) /(2*a);
```

Systm.out.println ("Roots one = "+r1+"
        and "+r2),
    } else.
    {
        Systm.out.println ("Then ole no real
            Solutions");
        real = -b/(2*a);
        imaginary = sqrt (-D)/(2*a);

        System.out.println ("Roots one = "+real+"
        and " + imaginary);
        System.out.println ("real is = "+real
        + " and imaginary is = " + imaginary);
    }
    }
    }