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IBM19CS031

```java
import java.util.Scanner;
public class quadratic {
Public static void main (String [] args){
double a,b,c,d,r1,r2;

System.out.println(" Enter co-efficients a, b and c: ");
Scanner in = new Scanner (System.in);
a= in.nextDouble();
b= in.nextDouble();
c= in.nextDouble();
d= b*b - 4*a*c;
double x = Math.sqrt(d);
if (d>0) {
    r1 = (-b+x) / (2*a);
    r2 = (-b-x) / (2*a);
System.out.printf ("r1 = %.21f and r2= %.21f", r1, +r2);
}
else if (d==0) {
r1= r2= -b/(2*a);
System.out.printf ("r1= r2 = %..21f ;", r1);
}

else if (d = 0) {
r1= r2= -b/(2*a);

else {
System.out.println ("there are no real solutions");
}
}
}
```