OXFORD COLLEGE

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1BM19CS188

```
import java.lang.Math;
import java.util.Scanner;

class Qeq
{
    public static void main(String args[])
    {
        int a,b,c;
        double n, r1, r2;

        Scanner input = new Scanner(System.in);

        System.out.println("Enter the co-efficients");
        System.out.println("Co-efficient a :" + a=input.next
        System.out.println("Co-efficient b:" + b=input.nextInt());
        System.out.println("Co-efficient c:" + c=input.nextInt());

        n=(b*b)-4*a*c;

        if (n>0)
        {
            System.out.println("roots are real & distinct");
            r1=((-b) + Math.sqrt(n))/2*a;
            r2=((-b) - Math.sqrt(n))/2*a;
            System.out.println("roots are, r1:" + r1 + "r2:"
                                                + r2);
        }
```

```
if (n z = 0)
{
  System.out.println("roots are real and equal");
  r1 = r2 = (-b)/2*a;
  print("r1 = r2 =" + r1);
  System.out.println("roots are r1 = r2 =" + r1);
}

if (n < 0)
{
  System.out.println("there are no real solution")
}
```