```
Start
```

User to input values a, b and c

$D = b^2 - 4ac$

Is D>0

Yes

No

$x1 = \frac{-b+\sqrt{D}}{2a}$

$x2 = \frac{-b-\sqrt{D}}{2a}$

Print x1 and x2

Print No real solutions

End

#Program to ask user for three variables and solve quadratic equation
It will do this by calculating the discriminant and checking if the values used will give a solution(s) or not

Provided the users equation is of the form below, user enters values for a, b and c

$$ax^2 + bx + c = 0$$

Discirminant (D) is calculated

If D is greater than 0 then calculate x1 and x2, which are the solutions of the quadratic equation and display them.

Else Display no real solutions.