**Name**: Agbirigba Chidera Valentine

**Matric Number**: SCI/21/22/0145

**Department**: Computer Science

**Algorithm for solving a quadratic equation**

Step 1: Take the coefficients a, b and c of the equation as input.

Step 2: Calculate the discriminant using the formula

D = b2 + 4ac.

Step 3: Check the discriminant value for positive, negative or zero value.

Step 4: If the discriminant is negative, the quadratic equation has no real roots, and cannot be solved.

Step 5: If the discriminant is zero, the quadratic equation has one real root, and can be solved.

Step 6: If the discriminant is positive, the quadratic equation has two real roots, and can be solved.

Step 7: Return the roots x1 and x2 as output.

Start

Input coefficients a, b and c

Calculate discriminant

If discriminant < 0

PRINT “No roots”

If discriminant = 0

Calculate x1

If discriminant > 0

Calculate x1 and x2

End