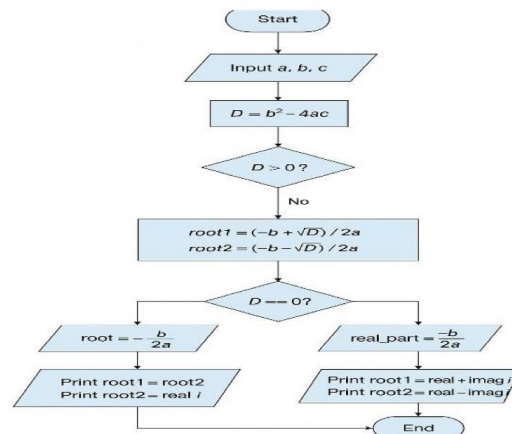


PROBLEM 2.1.1

Flowchart



Algorithm

Start

Input: Read three integers (a, b, and c) from a single line of input.

Calculate Discriminant: Compute D using the formula: $D = b^2 - 4ac$

- **If $D > 0$ (Real and Different):**
 - Calculate $\text{root1} = \frac{-b + \sqrt{D}}{2a}$
 - Calculate $\text{root2} = \frac{-b - \sqrt{D}}{2a}$
 - Print both roots.
- **If $D = 0$ (Real and Same):**
 - Calculate the single root: $\text{root} = \frac{-b}{2a}$
 - Print that $\text{root1} = \text{root2}$ equals this value.
- **If $D < 0$ (Imaginary/Complex):**
 - Calculate the **Real Part**: $\frac{-b}{2a}$
 - Calculate the **Imaginary Part**: $\frac{\sqrt{-D}}{2a}$
 - Print the roots in the complex format (e.g., real + imaginary i).

Formatting: Ensure all printed values are formatted to exactly **two decimal places**.

Stop

```

1 import math
2 a,b,c = map(float, input().split())
3
4 d=(b**2)-(4*a*c)
5
6
7 if d>0:
8     root1=(-b+math.sqrt(d))/(2*a)
9     root2=(-b-math.sqrt(d))/(2*a)
10    print(f"root1 = {root1:.2f}")
11    print(f"root2 = {root2:.2f}")
12
13 elif d==0:
14     root=-b/(2*a)
15     print(f"root1 = root2 = {root:.2f}")
16
17 else:
18     real_part=-b/(2*a)
19     imag_part=math.sqrt(-d)/(2*a)
20     root1=real_part+imag_part*1j
21     root2=real_part-imag_part*1j
22     print(f"root1 = {real_part:.2f}+{imag_part:.2f}i")
23     print(f"root2 = {real_part:.2f}-{imag_part:.2f}i")
24
25 print("==== YOUR PROGRAM HAS ENDED ====")
  
```