Algorithm:

1. Start

2. Input coefficients `a`, `b`, and `c`

3. Calculate the discriminant
   D=b2−4acD = b^2 - 4acD=b2−4ac
4. If `D > 0`

5. Roots are real and different

6. Else if `D = 0`

7. Roots are real and same

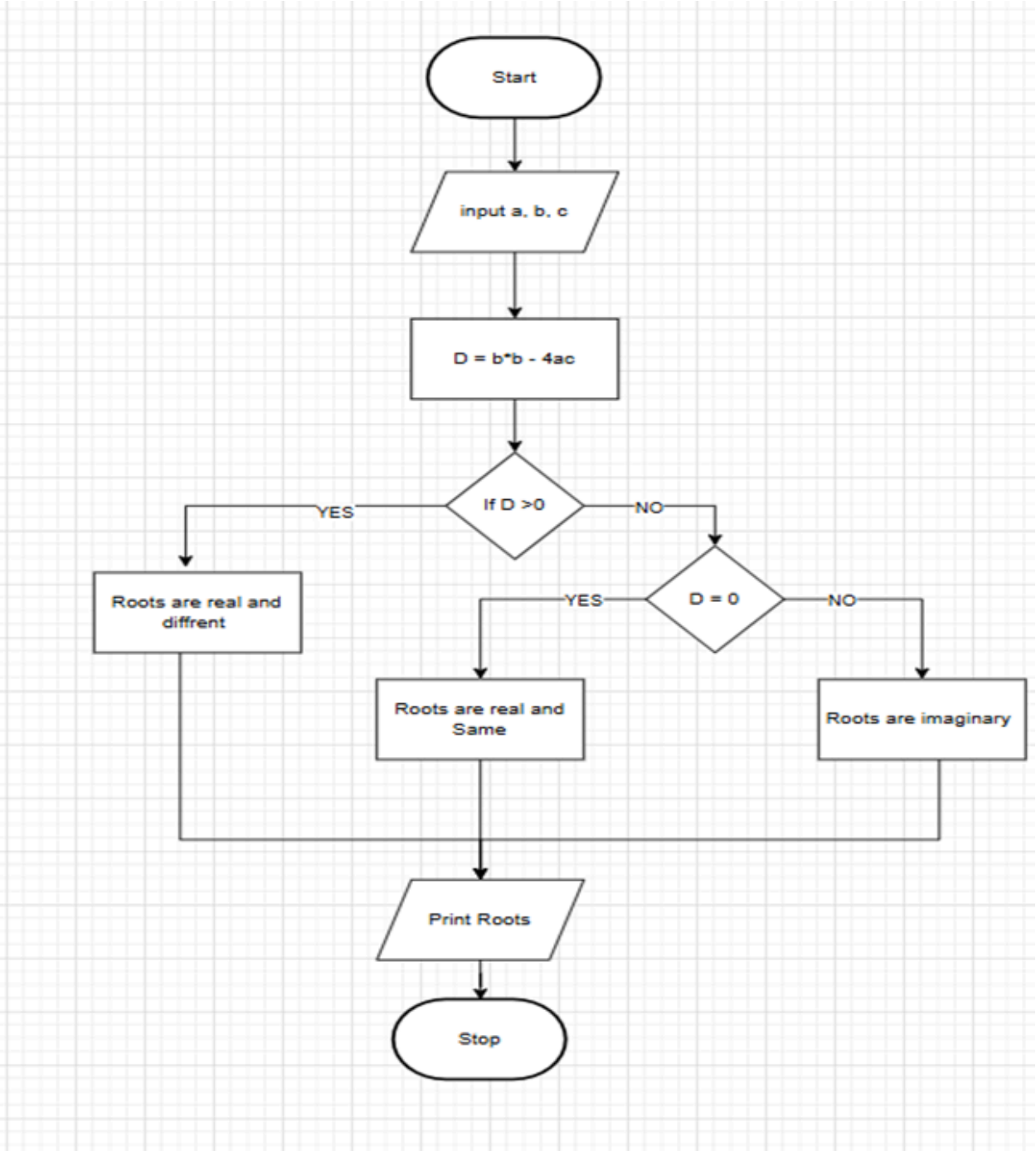
8. Else (`D < 0`)

9. Roots are imaginary

10. Print the nature of roots (and roots if required)

11. Stop

Flowchart:


Start
input a, b, c
D = b*b - 4ac
If D >0
YES
NO
Roots are real and diffrent
D = 0
YES
NO
Roots are real and Same
Roots are imaginary
Print Roots
Stop

CODE TANTRA EXECUTION: