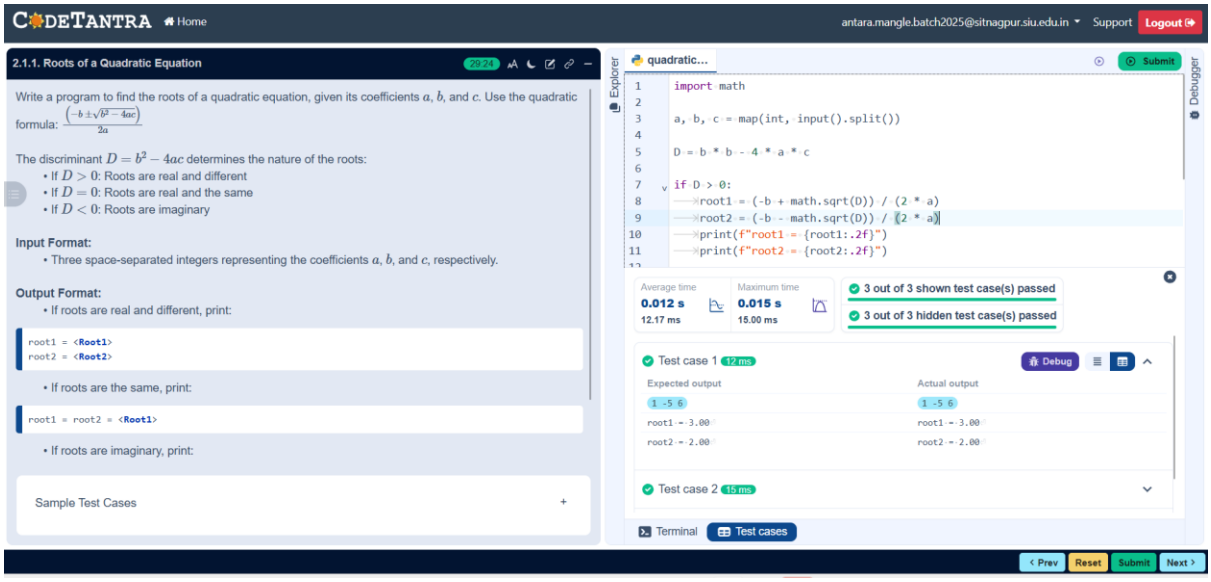
2.1.1



Algorithm

Step 1: Start

Step 2: Input the values of a, b, and c

Step 3: Calculate the discriminant D= b^2 – 4ac

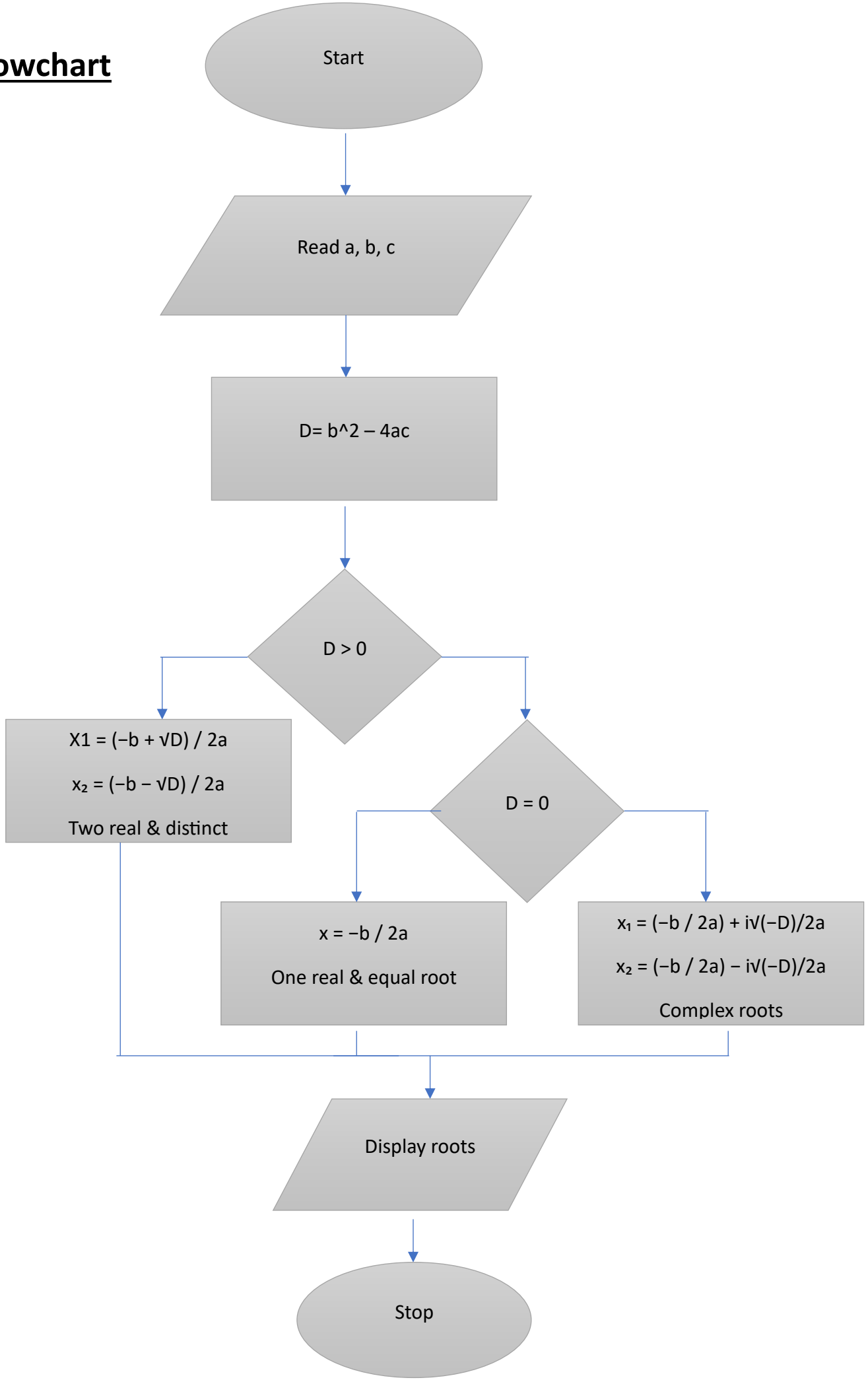
Step 4: If D > 0, print “Two different real roots”

Step 5: If D = 0, print “Two equal real roots”

Step 6: If D < 0, print “No real roots”

Step 7: Stop

Flowchart


Start
Read a, b, c
D= b^2 – 4ac
D > 0
X1 = (−b + √D) / 2a
x₂ = (−b − √D) / 2a
Two real & distinct
D = 0
x = −b / 2a
One real & equal root
x₁ = (−b / 2a) + i√(−D)/2a
x₂ = (−b / 2a) − i√(−D)/2a
Complex roots
Display roots
Stop