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ALGO EXERCISE # 4.2

PSEUDOCODE

1. LE4.12 Quadratic Equation

START

- 1. ASSIGN int variable: a, b, c
- 2. ASSIGN float variable: oneroot, discriminate, firstroot, secondroot
- 3. PROMPT and GET the value of a, b, and c
- 4. COMPUTE and STORE discriminate value using the formula (b^2)-(4*a*c)
- 5. COMPUTE and STORE firstroot value using the plus formula of the quadratic equation
- 6. COMPUTE and STORE secondroot value using the minus formula of the quadratic equation
- 7. IF both a and b is equal to zero
- 8. DISPLAY there is no solution
- 9. ELSE IF only a is equal to zero
- 10. COMPUTE and STORE oneroot value using the formula -c/b (this operation is put here to avoid floating point exception)
- 11. DISPLAY there is only one root and the one root value
- 12. ELSE IF the calculated discriminate is less than zero (negative)
- 13. DISPLAY there are no real roots and the discriminate value
- **14. ELSE**
- 15. DISPLAY there are two roots and the first and second root value END

FLOWCHART



