Algorithm

- 1. Start
- 2. Read Quadratic Equation value a, b, c, store in a, b, c.
- 3. Compute Discriminant of Quadratic Equation (= b² 4 * a * c), store in discriminant.
- 4. if discriminant is more than 0, go to step 5. Otherwise, go to step 9.
- 5. Compute first root (= (-b + sqrt(discriminant) / (2 * a)), store in root1.
- Compute second root (= (-b sqrt(discriminant) / (2 * a)), store in root2.
- 7. Display "Two roots! Root 1 : root1; Root 2: root2".
- 8. Go to step 18.
- 9. If discriminant is equal to 0, go to step 10. Otherwise, go to step 13.
- 10. Compute root1 (= -b / (2 * a)), store in root1.
- 11. Display "Equal roots! Root: root1".
- 12. Go to step 18.
- 13. If discriminant is less than 0, go to step 14.
- 14. Compute real part (= -b / (2 * a)), store in real.
- 15. Compute imaginary part (= sqrt(-discriminant) / (2 * a)), store in imaginary.
- 16. Display "Complex roots! Root 1: real + imaginary i; Root 2: real Imaginary i".
- 17. Go to step 18.
- 18. Stop.

Flowchart

