Set B

1. Given the coefficients a, b and c of the quadratic equation as (floating point numbers) $ax^2+bx+c=0$, find the solution(s) of the equation. [Hint: 'sqrt' function can be used to find the square root of a number]

Sample Input(s)	**Corresponding Output(s)**
1 -5 6	2.000 3.000
1 2 3	
2 -20 50	5.000

2. You are given center & radius of two circles as (x1, y1, r1) and (x2, y2, r2). You have to detect the following scenarios:

1. Outside each other
2. Touching each other from outside
3. Intersecting each other
4. Circle 1 touching circle 2 from inside (Circle 2 has larger radius)
5. Circle 2 touching circle 1 from inside (Circle 1 has larger radius)
6. Circle 1 inside circle 2
7. Circle 2 inside circle 1

Each line of input will contain 6 integer. The first three integers are the x and y coordinates and the radius of the first circle. The second three integers are the x and y coordinates and the radius of the second circle. You have to print "Scenario i" if the circles are situated according to the ith scenario.

Sample Input(s)	**Corresponding Output(s)**
0 0 5 8 0 2	Scenario 1
8 0 2 0 0 5	Scenario 1
0 0 5 7 0 2	Scenario 2
0 0 5 6 0 2	Scenario 3
0 0 5 0 0 2	Scenario 7
0 0 5 3 0 2	Scenario 5
3 0 2 0 0 5	Scenario 4