

# Jan 25 - CSE102

## Online 1 (A1/A2)

### Problem 1

You are given the center coordinates and radii of two circles. You have to output whether they intersect, one inside the other or not intersecting. There will be three numbers on each line. Each line represents a circle, first two numbers denote center x and y coordinates, third number denotes the radius.

Sample Input	Sample Output
5 3 2 3 10 12	Not intersecting
0 0 3.2 3 4 1.8	Not intersecting
6 0 3 0 0 5	Intersecting
0 0 5 3 0 1	Inside

### Problem 2

Given a, b and c of  $ax^2 + bx + c = 0$ , you have to find out if it has imaginary, equal or distinct solutions. You have to output the solutions also. (For imaginary solutions like  $a + ib$ , you have to output (a, b))

Sample Input	Sample Output
4 5 1	Distinct Solutions -0.25, -1
6.3 3 1	Imaginary Solutions (-0.24, 0.32), (-0.24, -0.32)
1 -4 4	Equal Solutions 2