Write detailed problem solving steps. Can be in Pseudocode or C++ code.

Consider the coordinate plane with origin (0,0). Given an ordered pair (x,y) one can determine the quadrant in which the point lies by considering whether the values of the pair are < 0, > 0, or = 0.

Given the point (x,y), determine and print the quadrant in which the point lies. If lies on the line, print the 2 quadrants between which it lies.