# PAC CHART:

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| GIVEN DATA:   * X-Component * Y-Component | REQUIRED RESULT:   * Quadrant Number in which point lies. |
| PROCESSING DATA   * Read X and Y coordinates * See sign of Both Coordinates * If x and y are positive, then in 1st Quadrant * If x is negative and y is positive, then in 2nd Quadrant * If x and y are negative, then in 3rd Quadrant * If x is positive and y is negative, then in 4th Quadrant * Print Quadrant * End | ALTERNATIVE METHOD:   * If x=0 and y=0,then point lies at origin |

# IPO CHART:

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| INPUT:   * X-Coordinate * Y-Coordinate | PROCESS:   * Enter x and y values. * If x > 0 and y > 0 then Quadrant 1st * If x < 0 and y > 0 then Quadrant 2nd * If x < 0 and y < 0 then * Quadrant 3rd * If x > 0 and y < 0 then Quadrant 4th * If x and y = 0 then origin * Print Quadrant number. * End. | OUTPUT:   * Quadrants In which point lies or origin |