SCAN CONVERSION LINE DRAWING (Slope dependent)

1. Given the start and endpoints write a java program to draw the line (slope m = 1,-1, 0, ∞) using points.
    a. If slope m is 1 then, increment x and y draw the point
    b. If slope m is -1 then, increment x and decrement y
    c. If slope m is 0 then, increment x
    d. If slope m is ∞ then, increment y
    e. For any other slope declare invalid

Procedure:

Read the coordinates (from user or a .txt file)

Calculate the slope m

Choose among the four orientation of straight lines (diagonal {m = +/- 1}, horizontal {m = 0}, vertical {m = ∞})

Draw the line using points. Always start drawing from the left most points. (How do you determine which is leftmost?)

Draw the first and last points manually (outside any loops)