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CSC 133

Attendance quiz 8

The point p1 (9,1) resides in the bottom right region with code 0 0 1 1
The point p2 (3,5) resides in the middle left region with code 1 0 0 0
m = -2/3

The codes with be ANDed to get 0 0 0 0, which means the line is not completely outside the window
The new endpoint for P2 will be calculated using:

x = Wleft
y = y1 + m (x-x1)
where m = slope,
since P2 crosses Wleft

x = 4, y = 5 -2/3(4-3) = 5 – 2/3 = 4 1/3
(4, 4.333)
The new endpoint for P1 will be calculated using:

x = Wright
y = y1 + m (x-x1)
where m = slope,
since P1 crosses Wright

x = 8, y = 1 -2/3(8 – 9) = 1 + 2/3
(8, 5/3)

then,
y = Wbottom
x = x1 + (y-y1)/m
where m = slope,
since P1 also crosses Wbottom

y = 2, x = 8 + (2 – 5/3)/(-2/3) = 8 – 2/3 = 22/3 = 7.3333
(7.3333, 2)