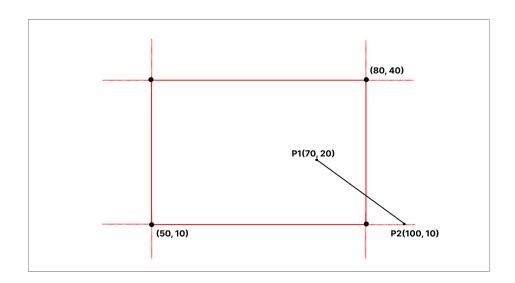
Use the Cohen Sutherland Algorithm to clip the lines P1(70, 20) and P2(100, 10) against a window lower left corner (50, 10) and upper right corner (80, 40).

Given,

$$P1 = (70, 20), P2 = (100, 10)$$

$$(Xwmin, Ywmin) = (50, 10)$$

$$(Xwmax, Ywmax) = (80, 40)$$



Region Code of P1 = 0000

Region Code of P2 = 0010

The line lies partially inside the window boundary.

slope of P1.P2 =
$$10-20 / 100-70. = -1/3$$

Slope of P1.M = y
$$--$$
 20/80–70. = y $--$ 20/10

Since, Slope of P1.P2 == Slope of P1.M and since it is completely one single line,

- -1/3 = y 20/10
- 3y 60 + 10 = 0
- 3y 50 = 0
- y = 16.67

Visible Portion of P1.M, P1(70, 20) and M (80, 16.67)