→ Code (P_1) = 1010

→ code (P_2) = 0000

→ First test:

Code (P_1) | Code (P_2) = 1010

→ no conclusion

→ Second test:

Code (P_1) & Code (P_2) = 0000

→ intersect

→ replace P_1, P_2 with new points.

Here, Code (P_1) = 1010

∴ Bit 1 = 1

∴ So the line is intersect with y_{max}

∴ $y = y_{max} = 120$

$$\therefore x = x_0 + \frac{y - y_0}{y_1 - y_0}(x_1 - x_0)$$

$$= 75 + \frac{120 - 125}{65 - 125}(55 - 75)$$

$$= 75 - 1.6 = 73.4$$

∴ New Code (P_1) point is (73.4, 120)

Therefore, P_2 is inside the window so there is no intersecting points.

→ New Code (P_1) = 0010

→ Code (P_2) = 0000

→ First test:

Code (P_1) | code (P_2) = 0010

→ No conclusion

→ Second test:

Code (P_1) & Code (P_2) = 0000