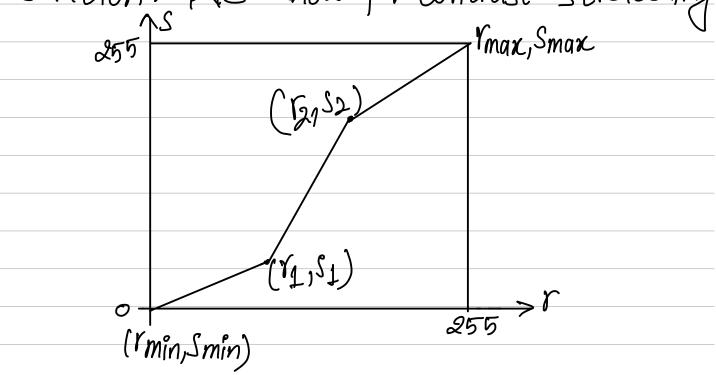
## Contrast Streatching

Question-01: lerform contrast streatching on the given image

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	8	Ż	6	g	
	6	6	4	7	$\int$
			,		_

Solution: He know for contrast streatching



Streatched intensity(s) = 
$$(r-r_1)$$
  $r_{max}-r_{min}$   $r_{min}$ 

From given image,  $r_1 = 4$  and  $r_2 = 9$  also, for 4-bit image,  $r_1 = 0$  and  $r_2 = 15$ 

now, streatching available intensities;

$$S_{4} = (4-4) \left(\frac{15-0}{9-4}\right) + 0 = 0$$

$$S_{5} = (5-4) \left(\frac{15-0}{9-4}\right) + 0 = 3$$

$$S_{6} = (6-4) \left(\frac{15-0}{9-4}\right) + 0 = 6$$

$$S_{7} = (7-4) \left(\frac{15-0}{9-4}\right) + 0 = 9$$

$$S_8 = (8-4)\left(\frac{15-0}{9-4}\right) + 0 = 12$$

$$S_9 = (9-4)(\frac{15-0}{9-4}) + 0 = 15$$

Enhanced image after histogram streatching we get,

