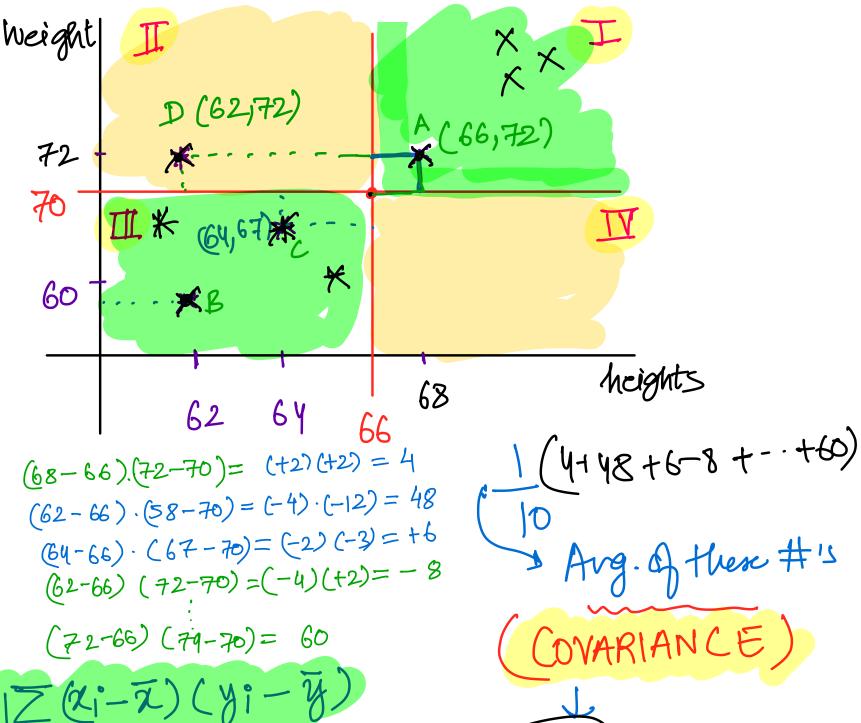
Correlations

I boar ID Education Income boar Amt. graavate Non-graavate 100 K, ILK.

Height (inches)	Weight (kg)	
68	72	
62	58	
64	67	
61	72 🗸	
70	79	
66	61	
61	68	
65	64	
71	80	
72	79	
$\bar{h} = 66$	$\bar{w} = 70$	



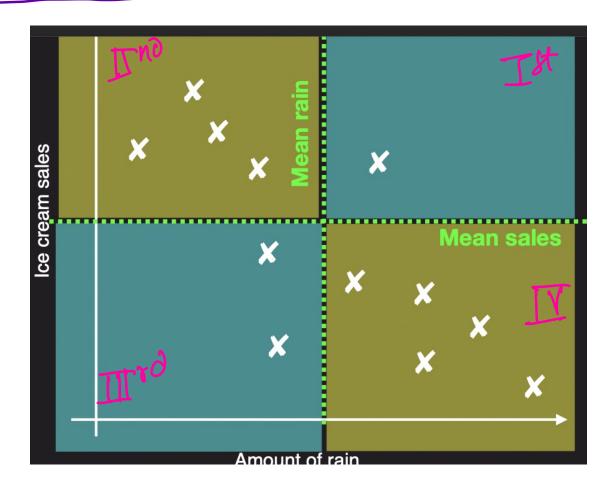
· Gov(スッタ)=12(はース)(タータ)

Avg. of these #15

COVARIANCE)



Icecream Vs Rain



- ve corrasionne

Height Yorkani

Yain	X X X X X X X X X X X X X X X X X X X	*		Cov. S. D. Very Low
	* * * * * * *	< × × ×		
			ht.	Cor.
riance E	(- x to t	(A)		-1000
9 12	(え)(り)	- y)		- 20000 + 1·1

= 2.5 cm.

80
75
X

Wean weight

65
60
60
62
64
66
68
70
72
Height (Inches)

, 1kg \(1.7 \) \(7 \) \(1.7 \) \(

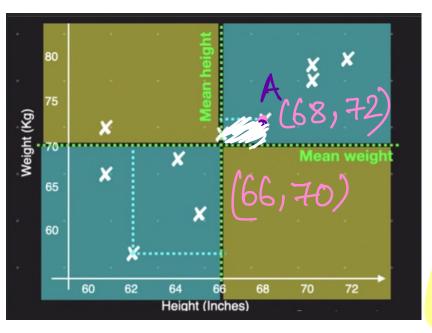
 $D_{x} = 2.5$. $30x^{2} = (2.5)^{2}$. $M_{x} = 65$ inches.

OX X

In cm

Y -> cm.

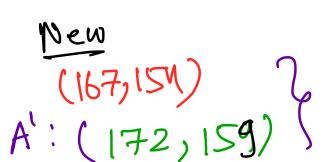
 $y = (2.54) \times$ $\sqrt{5y} = (2.54) \times$



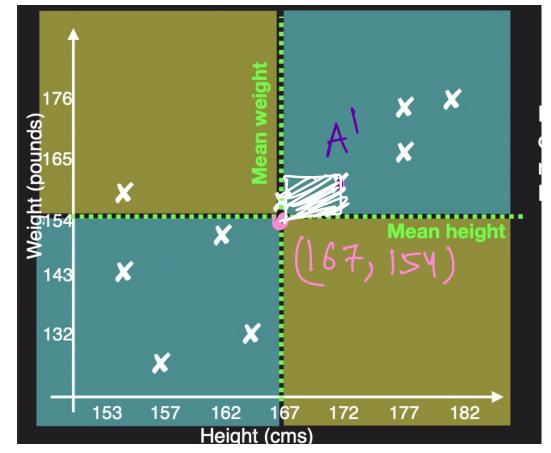


(66,70)

A: (68,72)



1inch=(2.54) cm. 1 rg = 2.2 pombs.



$$= +25$$



$$(\text{bv.}(x_1y)) = \frac{1}{N} Z (x_1 - \overline{x}) \cdot (y_1 - \overline{y})$$

$$(x_1 - \overline{x})$$

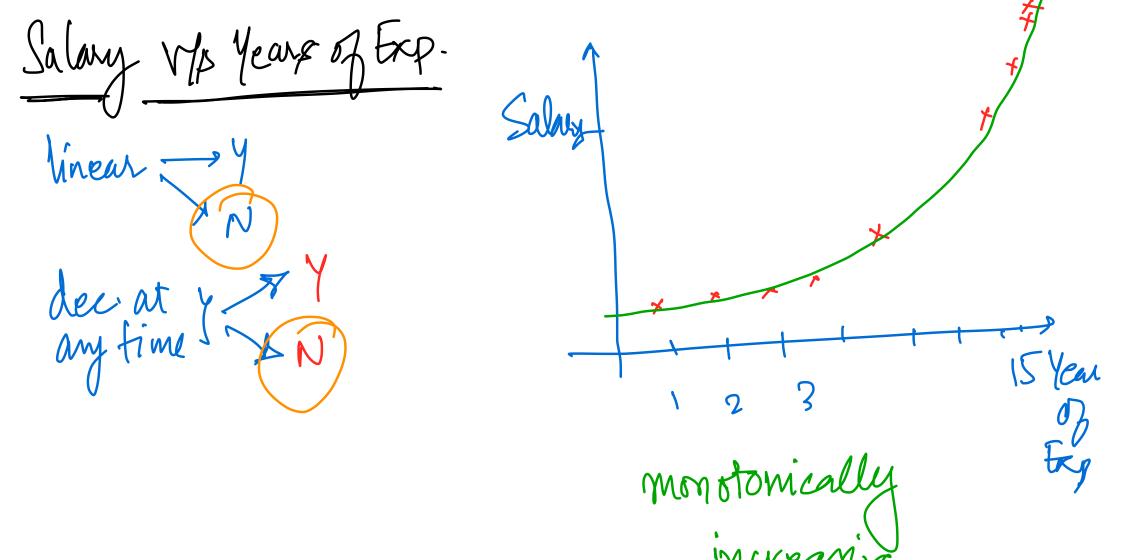
$$(x_1 - \overline{y})$$

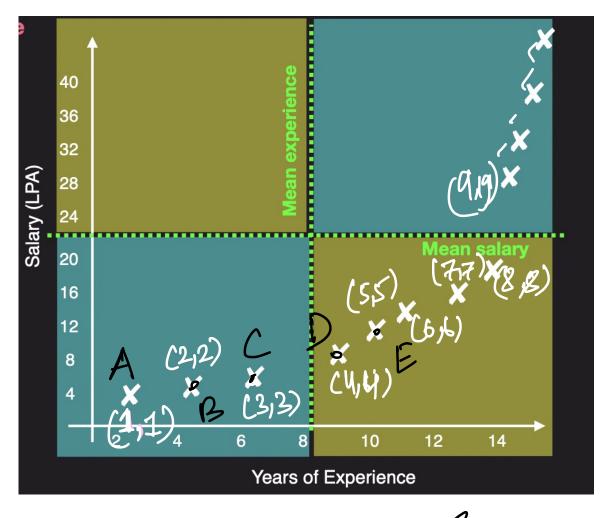
$$(y_1 -$$

(Cov) x,y - 100] not able to conclude.

(Cov) m,n - 3 - 200] my min -> strong-ne relationship $S_{xy} = -0.20$ J min have strong - we $S_{mm} = -0.95$ relationship wrt. x,y

borrelation -> (linear selationship. Cor. = leffest linea relationship.





Corr. should be +1



Spearman Correlation

rank (y) Jank (X) Rank(y) Peaeson Correlation -) Compute Kank the data

-- Pearson = -0.8 * Strength of monotonically Tool relationship sow 2 4 4.