BY-HAND GINI INDEX

$$G = \frac{\sum_{i=1}^{N} \sum_{j=1}^{N} |x_i - x_j|}{2N(N-1) \times}$$

CALCULATE NOMINATOR

1200 600 5000

$$\sum_{i=1}^{N} \sum_{j=1}^{N} |x_i - x_j| = 600$$
Some  $3800$  When  $3800$  the motion

## GLOULATE DENOMINATOR

$$\overline{X} = \frac{ZX_{i}}{N} = \frac{X_{i} + X_{2} + X_{3}}{3} = \frac{1200 + 600 + 5000}{3} = 2266,667$$

$$2N(N-1)\overline{X} = 2*3(3-1)2266,667 = 2760.004$$

CALCULATE GINI  

$$G = \frac{\sum_{i=1}^{N} \sum_{j=1}^{N} |x_i - x_j|}{2N(N-1)\bar{x}} = \frac{17600}{27200.004} = 0.6470$$